

# IFX Forum, Inc.

## Business Message Specification



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## 1 — Disclaimer

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## 2 — Overview

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### 2.1 — About the IFX Business Message Specification

The Interactive Financial Exchange (IFX) Specification provides a robust and scalable framework for the exchange of financial data and instructions independent of a particular network technology or computing platform. The information-sharing potential of IFX has been designed to support communication not only between a Financial Institution and its customers, but also between a Financial Institution and its Service Providers, between Financial Institutions, and eventually directly between customers (e.g., "electronic wallet"). This specification supports existing and emerging financial services and is extensible and customizable for future growth.

The IFX Specification has been developed as a cooperative industry effort among major Financial Institutions, Service Providers, and information technology vendors to these institutions and their customers in the small business and consumer markets. The IFX Specification provides a comprehensive specification for new financial industry services and software while providing a common strategic direction for the evolution of existing products and services.

The IFX Specification provides Financial Institutions, their Service Provider vendors, and financial software developers for the small business and consumer markets with a generalized model for financial industry data communications.

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### 2.2 — About this Document

This document contains a semi-formal description of the core features of the IFX Version 2 object model and related structures.

This document contains information about the following general topics:

- Basic object structure
  - Object and message construction patterns
  - Object component description and usage
  - Implementing object references
  - Implementing light objects
  - Additional message implications
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### **2.3 — Design Principles**

The IFX Specification has been designed to meet the following principles:

- Support a Broad Range of Financial Activities
  - Support Financial Communications Among a Broad Range of Parties
  - Support a Broad Range of Client Devices
  - Based on modern Service Oriented principles
  - Support Customers Using Multiple Client Devices
  - Support Batch and Interactive Sessions
  - International Support
  - Platform and Transport Independent
  - Customizable and Extensible
  - Robust and Secure
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### **2.4 — Service Oriented Architecture**

The IFX Standard is based on a service oriented architecture. The most fundamental assumption underlying the standard is that there are one or more services being offered by a service provider. A service provider may manage these services directly or may choose to partner with others to provide the service.

Service Providers are typically financial institutions, their partners, vendors or outsource agents. From a business and customer perspective a Service Provider provides business services such as payment processing, on-line banking, ATM services, bill presentment and payment, etc. Within the operating environment of the service provider there may be more granular or technically oriented services such as customer authentication, transaction-type handling or channel-specific functionality.

It is beyond the scope of this document to describe all of the details of the IFX Service Oriented Architecture, but it is important to recognize these concepts as they affect the IFX Object Framework.

A Service Provider is uniquely identifiable. IFX mandates the use of a URL as the identifier.

Each Service is uniquely identifiable within the Service Provider's domain. This in effect makes the combination of Service Provider plus Service Name globally unique - a Service Identifier.

IFX Objects are "owned" or managed by the Service that creates or

instantiates the object.

IFX Messages are directed to a Service Provider, who may in turn redirect the message(s) to another service provider.

Although it is typical for networks, mainframes, servers and databases to be involved in supporting a service offering, IFX makes no assumptions about the technical infrastructure used to provide services.

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## 2.5 — Terminology

There are some terms that are used in this document that require some introduction.

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### 2.5.1 — May, Should, and Must

The terms may, should, and must are used frequently within this specification.

May indicates that the described behavior is not required for IFX compliance, nor is there any preferred behavior. Generally, the behavior is described to inform of possible behaviors of which client or server designers and developers should be aware.

Should indicates that, while the described behavior is not required for IFX compliance, it is preferred. Generally, the behavior is described to provide a better experience for the communicating parties.

Must indicates that the described behavior is required for IFX compliance.

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### 2.5.2 — Definitions

The following terms are used frequently. For more detailed discussion see the section referenced in the table.

<i>Term</i>	<i>Description</i>	<i>See Section</i>
Aggregate	An Aggregate is collection of object properties (a data segment definition) that are directly related to each other or have similar operational characteristics. The Aggregate name - or tag name - will appear on the wire as part of the message.	§ 2, 3.4
Abstract Aggregate	An Abstract Aggregate is a particular type of aggregate that represents a substitution group that must be replaced by conventional Aggregate. An Abstract Aggregate tag name will NOT appear on the wire. Instead one of the aggregates that are shown to extend the Abstract Aggregate will be substituted.	§ 3.4

In-band, Out-of-band	Communications supported by the IFX standard are sometimes referred to as 'in-band'. Communications, activities or bi-lateral arrangements that are not supported as part of the IFX messaging standard - but which may be required or assumed to be in order for communications to be effective - are generally referred to as 'out-of-band'.	§ 2
On the wire	This phrase is sometimes used to highlight content that will actually be transmitted as part of the messages.	§ 3.4
Service	A service is an arbitrary collection of capabilities. From the point of view of a customer a service is something that the business offers to do for them. From a technical perspective, a service is also a collection of capabilities. These capabilities may support one or more of the business capabilities mentioned above. IFX does NOT dictate the scope or bounds of a service.	§ 1.2
Service Provider	A Service Provider (or SP) is an organization that provides services to an individual or to other organizations. Typically a financial institution offers services to its customers. In turn, a software or services vendor may act as a service provider to one or more financial institutions. The service provider may manage its offered services directly or may choose to partner with others to provide the service.	§ 1.2
Svcldent	Taken together, the combination of Service Provider and Service Name provide a unique reference to a service - a Service Identifier, or Svcldent,	§ 1.2
Server	Typically used to as if it refers to a physical piece of hardware, it may in fact be a collection of servers (server farm) or an application that resides on a server. In some contexts in this document it may be used interchangeably with Service as defined above.	§ 1.2

### 3 — IFX Object Characteristics

The IFX standard was originally created and still continues to be based on an underlying object model. Although this model is not usually defined formally, it is the source of the structures and messages that we do define formally. At the base of this object model is the concept of an "IFX Object". An IFX object is a set of data that is organized according to a consistent pattern and supports a well defined set of operations. This section provides a high level description of the important characteristics of IFX objects.

IFX objects are the "representation of record" or current state of an IFX interaction. IFX interactions cause IFX objects to be created, modified and destroyed. These interactions are recorded in the form of an IFX object. Most IFX interactions start with an Add message that creates a new object

and may be followed by any number of subsequent messages which interact with the object. In many cases, several IFX objects, both temporary and permanent, are needed to fully represent an interaction. In all cases, the server is assumed to own and manage the representation. This representation of record is intended to model a business process that contains value. By modeling the business process IFX interactions can simulate that business process and record its results in an IFX object. The store of IFX objects then becomes a record of the execution of that business process. The primary objective in designing an IFX object is to accurately represent the chosen business process so that its execution can be accurately recorded.

All IFX objects are named entities that can be referred to by their name using IFX or another method. IFX objects can usually be maintained within IFX (i.e., added, deleted, modified, etc.). There are a few cases where objects are implied (i.e., referring to a server by an Id) but these are rare and tend to reflect long term business relationships rather than the day to day business supported by the long term relationship.

An IFX object must have a name (it has a name or tag associated with it) and some properties (it has useful data) associated with it. There are several types of properties that an object may have. These include status information (required if the object needs to be persisted; it is stateful), information about the processing environment and information that allow accessors to be authorized and authenticated. Additionally, all IFX objects will contain business data; data that allows the object to record the business interaction that it models. It is this data that forms the foundation of all IFX Business Messages; the published IFX standard.

There are no "mandatory" methods that must be supported. It is hard to imagine a useful IFX object that does not implement any methods but it is acceptable per the standard. The primary reason for this flexibility is to allow an object designer to implement useful features without mandating extra baggage. It is possible that an IFX application will have to operate on an object that is always maintained out of band. In this case IFX maintenance messages would only cause confusion so don't need to be supported. Often, methods will be defined in the standard but not supported by particular servers because the function is performed out of band. This is acceptable as long as the server communicates it's supported message set to the client.

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### 3.1 — Building Blocks

IFX Objects are constructed using the following building blocks:

- Element - The most basic unit of data in the IFX Specification to define a single piece of information (of a specific data type) that is passed between the client and the server.
  - Aggregate - A group of related elements to provide a mechanism for coding logic rules and a convenient method to refer to related information using a single name.
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### 3.1.1 — Element

An Element is the most basic unit of data in the IFX Specification. An element is defined based on one of the supported data types to define a single piece of information that is passed between the client and server. An element is named according to specific rules and has a definition associated with it to provide additional information on what it contains. An element may also have some usage rules associated with it, which describe how the client and server interact with the element.

For example, the <ChkNum> element is based on the Character data type with a maximum of 12 characters and specifies a Check Number. Depending on where it is used in the specification, it may be provided by the client or the server.

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### 3.1.2 — Aggregate

A number of related elements may be grouped together into an Aggregate. An aggregate provides a mechanism for coding logic rules ("element 1 or element 2 must be provided") and also provides a convenient way for programmers to specify all of the related information by using a single name.

Note that multiple aggregates may use the same structure. This may occur to allow use of a more descriptive name,

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## 3.2 — Object Structure

IFX objects are defined as a collection of segments. A segment is usually defined by an aggregate or, in the case of the Id segment, a variable of type Identifier. A segment is a collection of properties that have similar operational characteristics. These segments are collected into an object. The serialized form of the full object is represented by a "Rec" aggregate. The segments that may be included in the "Rec" are:

- Id - The identifier or name; similar to a database key.
- Info - The common client managed properties of the object.
- Envr - The environmental data related to the object, managed by the server.
- Auth - Authentication and authorization information, used for selected objects. For security reasons this segment is usually either abbreviated or not included in serialized forms of the object.
- Status - The status or state of the object, important for persistent (stateful) objects.

The above describes the serialized representation of a full object. There are two techniques for getting a partial view of an object. The two are to use predefined partial serializations that have been determined by the IFX Forum to be useful and to use the light object facility. The light object facility is described later in this document. The predefined partial serializations include:

- StatusRec - Contains the Id and Status segments, useful for determining the state of an object
- AuthRec - Contains the Id and Auth segments when the Auth segment is supported. For security reasons this segment is usually either abbreviated or not included in serialized forms of the object.

In all cases an IFX object is owned by the server or service that physically creates it. IFX objects are typically created during the processing of an add message. The effect of an add message is to transfer ownership of the data it contains from the client that generated it to the server that stores it. The client that originated the add message will normally have the ability to inquire on and modify the data contained in the object, however, that process is under server management and control. It is the server's responsibility to manage it's data and allow access to it based on it's data security and integrity policies.

When seen on the 'wire' all fields are ordered as defined in the standard. The standard is constructed by maintaining a consistent set of patterns across entities. In general, an entity that is organized according to a pattern will include the data defined by the pattern first followed by any entity specific extensions. When a field in an entity comes from a pattern it will be ordered in the entity according to the pattern. Fields in an entity that extend the pattern follow the pattern fields and can be as appropriate for the business problem being solved. This means that extension fields will normally be ordered so that fields that serve related functions are clustered together. This order is intended to make the standard more understandable and convenient to implement.

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### 3.3 — Data Types

The IFX Specification is designed around a small number of data types that are used to represent all data passed between clients and servers using the messages defined in this specification. All information elements are based on these data types. Supported data types are:

Character	Closed Enum
Narrow Character	Open Enum
Boolean	Long
Date, Time, DateTime, and Timestamp	Identifier
Decimal	Phone Number
HexBin	Universally Unique Identifier (UUID)
IfxPath	URL

IFX defines the semantics and logical attributes of each data type. The physical representations are defined within the implementation specifications.

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### 3.3.1 — Character

Character indicates an element that allows character data up to a maximum number of characters, regardless of the number of bytes required to represent each character. The number after the hyphen specifies the maximum number of characters. For example, C-12 specifies an element of characters with maximum length 12 characters. C-infinite indicates an element with no maximum length. It is expected that character type elements may contain multibyte representations of characters in some implementations, depending on the allowable character sets.

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### 3.3.2 — Narrow Character

Elements of type Narrow Character are elements of character data type with the additional restriction that the only allowable characters are those contained within the ISO Latin-1 character set (<http://www.htmlhelp.com/reference/charset/>). The Narrow Character set limits the characters to accommodate interfacing to existing standards such as the ABA standard for card track 2 mag stripe data.

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### 3.3.3 — Binary

The Binary data type is a compound type consisting of three logical elements:

Tag	Type	Usage	Description/Context notes
begin Aggregate			
ContentType	Open Enum	Optional	Specified in IETF RFC 2046.
BinLength	Long	Required	Identifies the size of the binary data in number of bytes.
BinData	Raw Binary Data	Required	Binary data.
end Aggregate			

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### 3.3.4 — Boolean

Boolean indicates a logical True or False condition. The physical representation of Boolean data is specified by each implementation specification corresponding to this message specification.

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#### 3.3.4.1 — Boolean Conventions and Selection Criteria

The general usage of Booleans within the IFX specification is:

<TagName> (optional)

- If True, then...
- If False or omitted, then...

This usage of Booleans in IFX allows optional Booleans to be added in future revisions while maintaining upward compatibility.

There are instances where it is considered too error prone to allow a default of False. In these cases the Boolean is required.

The convention for the use of selection criteria for read messages is:

For Booleans:

<TagName> (optional)

- If True, then the selected set must include at least those items where the condition is True.
- If False, then the selected set must include at least those items where the condition is False.
- If omitted, then this item is ignored as a selection criterion.

Usage notes specify when a Boolean is used as a selection criterion.

For others:

<TagName> (optional)

- If present, the selected set must include at least those items where the value in the request matches a value for the corresponding tag in the searched region.
- If absent, the selected set must include items with any value, including NULL, for the corresponding tag in the searched region.

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### 3.3.5 — Date, Time, DateTime, and Timestamp

The IFX Specification includes five time-related compound data types: Date, Time, DateTime, and Timestamp. In all types that describe Date information, IFX 2 uses the Gregorian calendar. Other calendars may be considered for future versions as requirements are identified. Data types including time information refer to a 24-hour clock.

All date and time types include (with the largest units given first): year, month, day, hour, minute, second, and fractions of a second. Any particular type may include a subset of these possible values. Types including time information (hour, minute, etc.) may also include an offset from Coordinated Universal Time (UTC).

Note: In a DateTime element, specifying a date without a time or time zone will result in a time of midnight, UTC. This will result in the previous date appearing for all time zones in the western hemisphere. For example, October 5, 2002, without a specified time zone offset, will appear to be October 5, 2002, for the eastern hemisphere, but October 4, 2002, for the western hemisphere. Therefore, for DateTime elements where a single date is desired worldwide, the time must be included, and it must result in noon, UTC (e.g., "12:00:00" or "09:00:00-03:00").

Note: IFX does not require servers or clients to use the full precision specified. However, they are required to accept any of these forms without complaint.

As a general rule for date and time compound data types, values may be entered that omit the smallest logical elements. In every case, the value is taken to mean the same thing as if the minimum values (such as zeroes) were included. (The default is always the start of an otherwise ambiguous range for types.) For example, a DateTime value omitting the time portion means the start of the day (12:00 midnight). Note that time zone qualifiers (in time and DateTime values) are an exception to this rule, as they may be included even if times are not specified to the millisecond.

The logical elements appearing in each of these compound data types are summarized below. "Required" means that the element must occur in all instances of the data type. "Recommended" means that the element should be included in all instances of the data type. "Optional" elements may be omitted from an instance of the data type. Optional elements must be included if smaller elements are to be included. For example, month must not be omitted from a date value if day is included.

	<i>Contains</i>	<i>Date</i>	<i>Time</i>	<i>DateTime</i>	<i>TimeStamp</i>
Year	YYYY 0000-9999	Required	N/A	Required	Required
Month	MM 1-12	Optional	N/A	Required	Required
Day	DD 1-31	Optional	N/A	Required	Required
Hours	HH 0-23	N/A	Required	Optional	Required
Minutes	MM 0-59	N/A	Optional	Optional	Required
Seconds	SS 0-60	N/A	Optional	Optional	Required
Fractional Seconds	XX (minimum) Precision is determined by the implementation	N/A	Optional	Optional	Optional
UTC offset Hours	HH 0-23	N/A	Recommended	Recommended	Recommended
UTC offset Minutes (time zone indication)	MM 0-59	N/A	Recommended	Recommended	Recommended

### 3.3.5.1 — Date

Elements of data type Date contain an indication of a particular day. This data type describes a unique period of time, normally 24 hours (not a repeating portion of every year).

Logically, this data type must contain a 4-digit year, and may contain a month number, and day number.

Date Datatype	Type Usage	Description
Year	Long Required	4-digit year value.
Month	Long Optional but see Description	Number of the represented month. Value must be within the range 1 through 12. Must be included if <Day> is included. If absent, the value is assumed to be 1 (January)
Day	Long Optional	Number of the represented day. Value must be within the range 1 through 31.  If absent, the value is assumed to be 1.

### 3.3.5.2 — Time

Elements of data type Time contain an indication of a particular time during a date. This data type describes a repeating portion of a day. That is, each time described (ignoring leap seconds) occurs once per calendar date. In the IFX specification, it is required that a time data type be able to represent a specific period with indefinite precision. Milliseconds are the minimum required precision of the time data type.

A time represented using this data type must not be ambiguous with respect to morning and afternoon. That is, the time must occur once and only once each 24-hour period.

In addition, the Time data type must not be ambiguous with respect to location at which the time occurs. If unspecified, the time zone defaults to Coordinated Universal Time (UTC). Generally, use of a specific time zone in the representation is preferred. The time zone should always be specified to avoid ambiguous communication between clients and servers.

Time Datatype	Type Usage	Description
Hour	Long Required	Number of the represented hour. Value must be within the range 0 through 23.
Minute	Long Optional but see Description	Number of the represented minute. Value must be within the range 0 through 59.  Must be included if <second> is included. If absent, the value defaults to 0.
Second	Long Optional but see Description	Number of the represented second. Value must be within the range 0 through 60. The value "60" is used only to represent leap seconds.  Must be included if <fraction> is included. If absent, the value defaults to 0.
Fraction	Long Optional	Number of represented microseconds. Value must be within the range 0 through 999,999. Particular implementations may choose to allow representations of smaller fractions.

UTCOffsetHour	Long Optional but see Description	<p>If absent, the value defaults to 0.</p> <p>Offset from UTC in hours. Value must be within the range of 0 through 23.</p> <p>Must be included if &lt;UTCOffsetMinute&gt; is included. If absent, the value defaults to 0.</p>
UTCOffsetMinute	Long Optional	Offset from UTC in minutes. Value must be within the range of 0 through 59.

### 3.3.5.3 — DateTime

Elements of data type DateTime contain all of the information expressed by the date and time data types. All ambiguities mentioned with Date and Time (see Sections 2.3.5.2 and 2.3.5.3) should be resolved in a similar fashion here.

DateTime Datatype	Type Usage	Description
Year	Long Required	4-digit year value.
Month	Long Required	Number of the represented month. Value must be within the range 1 through 12.
Day	Long Required	Number of the represented day. Value must be within the range 1 through 31.
Hour	Long Optional but see Description	<p>Number of the represented hour. Value must be within the range 0 through 23.</p> <p>Must be included if &lt;minute&gt; is included. If absent, the value defaults to 0.</p>
Minute	Long Optional but see Description	<p>Number of the represented minute. Value must be within the range 0 through 59.</p> <p>Must be included if &lt;second&gt; is included. If absent, the value defaults to 0.</p>
Second	Long Optional but see Description	<p>Number of the represented second. Value must be within the range 0 through 60. The value "60" is used only to represent leap seconds.</p> <p>Must be included if &lt;Fraction&gt; is included. If absent, the value defaults to 0.</p>
Fraction	Long Optional	<p>Number of represented microseconds. Value must be within the range 0 through 999,999. Particular implementations may choose to allow representations of smaller fractions.</p> <p>If absent, the value defaults to 0.</p>
UTCOffsetHour	Long Optional but see Description	<p>Offset from UTC in hours. Value must be within the range of 0 through 23.</p> <p>Must be included if &lt;UTCOffsetMinute&gt; is included. If absent, the value defaults to 0.</p>
UTCOffsetMinute	Long Optional	Offset from UTC in minutes. Value must be within the range of 0 through 59.

### 3.3.5.4 — Timestamp

Elements of data type Timestamp contain the same information as DateTime values. Unlike that data type, Timestamp information is not

intended to have meaning at the other end of the communication. In addition, microseconds are the minimum required precision of the time portion of this data type.

The intent here is to describe a type identical to DateTime but without semantic meaning between two machines. The general DateTime data type has meaning on both ends of the protocol (even though time synchronization is not required by this specification). Timestamp indicates an exact point in time with respect to the generating application.

For example, a Timestamp value may be generated at a server when creating an audit response. The client application may return that value to the server in later requests, but the client software should not interpret the information.

TimeStamp Datatype	Type Usage	Description
Year	Long Required	4-digit year value.
Month	Long Required	Number of the represented month. Value must be within the range 1 through 12.
Day	Long Required	Number of the represented day. Value must be within the range 1 through 31.
Hour	Long Required	Number of the represented hour. Value must be within the range 0 through 23
Minute	Long Required	Number of the represented minute. Value must be within the range 0 through 59
Second	Long Required	Number of the represented second. Value must be within the range 0 through 60. The value "60" is used only to represent leap seconds.
Fraction	Long Required	Number of represented microseconds. Value must be within the range 0 through 999,999. Particular implementations may choose to allow representations of smaller fractions
UTCOffsetHour	Long Optional but see Description	Offset from UTC in hours. Value must be within the range of 0 through 23.  Must be included if <UTCOffsetMinute> is included. If absent, the value defaults to 0.
UTCOffsetMinute	Long Optional	Offset from UTC in minutes. Value must be within the range of 0 through 59.

### 3.3.6 — Phone Number

Phone Number indicates a string of up to 32 narrow characters in length (NC-32). It must begin with a plus sign "+" followed by country code, a hyphen, city/area code, another hyphen, then the local phone number. If a PBX extension is to be included, it must appear at the end of the field, separated from the rest of the telephone number by a plus sign.

For example, "+1-800-5551212+739" indicates PBX extension 739 at phone number 5551212 within area code 800 of North America (country code 1).

### 3.3.7 — Decimal

Decimal indicates a numeric value that meets the following rules:

- The value is up to fifteen (15) decimal digits in length.
- The value is not restricted to integer values and has a decimal point that may be placed anywhere from the left of the leftmost digit to the right of the rightmost digit (e.g., +.12345678901234 is acceptable while 12345678901234567 is not).
- The sign is always optional. If it is absent, the value is assumed to be positive.

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### **3.3.8 — Long**

Long is an integer value, which may be positive, negative, or zero, with values ranging from ?2147483648 to 2147483647.

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### **3.3.9 — Enum**

Enum is a Narrow Character type that has a limited number of specified valid values, each of which is represented by a tag of up to 80 characters each. The Enum data type is either a Closed Enum or an Open Enum. Adding a value to a Closed Enum requires a spec update, while adding a value to an Open Enum only requires out-of-band agreement by the end points.

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#### **3.3.9.1 — Closed Enum**

A Closed Enum is an element where a number of valid values are defined within this specification. All other values should be rejected as invalid.

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#### **3.3.9.2 — Open Enum**

An Open Enum is an element where a number of valid values are defined within this specification, but other values should not be rejected as invalid by any system other than the final message destination. Open Enums provide a mechanism for a client and final destination server to communicate with values that may be known to both endpoints but not to all intermediate servers that route the message.

Open Enums are typically used for elements related to system message processing and have been defined as open to support extensibility and customization of the specification.

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### **3.3.10 — Identifier**

Object identifiers in the IFX Specification are of the data type "Identifier." This is a Narrow Character data type with a maximum length of 36.

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### 3.3.11 — Universally Unique Identifier (UUID)

UUID elements are Narrow Character with a maximum length of 36.

A UUID is an identifier that is unique across both space and time, with respect to the space of all UUIDs. To be precise, the UUID consists of a finite bit space. Thus, the time value used for constructing a UUID is limited and will roll over in the future (approximately at A.D. 3400, based on the specified algorithm). A UUID may be used for multiple purposes, from tagging objects with an extremely short lifetime to reliably identifying very persistent objects across a network. The following information on UUID is based on Internet-Draft < leach-uuids-uuids-01.txt > :

The generation of UUIDs does not require that a registration authority be contacted for each identifier. Instead, it requires a unique value over space for each UUID generator. This spatially unique value is specified as an IEEE 802 address, which is usually already available to network-connected systems. This 48-bit address may be assigned based on an address block obtained through the IEEE registration authority. This section of the UUID specification assumes the availability of an IEEE 802 address to a system desiring to generate a UUID, but if one is not available, section 4 specifies a way to generate a probabilistically unique one that cannot conflict with any properly assigned IEEE 802 address.3.1 Format. In its most general form, all that may be said of the UUID format is that a UUID is 16 octets, and that some bits of octet 8 of the UUID called the variant field (specified in the next section) determine finer structure.

For use in human-readable text, a UUID string representation is specified as a sequence of fields, some of which are separated by single dashes. Each field is treated as an integer and has its value printed as a zero-filled hexadecimal digit string with the most significant digit first. The hexadecimal values a to f inclusive are output as lower case characters, and are case insensitive on input. The sequence is the same as the UUID constructed type. The formal definition of the UUID string representation is provided by the following extended BNF:

UUID	<time_low> "-" <time_mid> "-" <time_high_and_version> "-" <clock_seq_and_reserved> <clock_seq_low> "-" <node>
time_low	4*<hexOctet>
time_mid	2*<hexOctet>
time_high_and_version	2*<hexOctet>
clock_seq_and_reserved	<hexOctet>
clock_seq_low	<hexOctet>
node	6*<hexOctet>
hexOctet	<hexDigit> <hexDigit>
hexDigit	zero   "1"   "2"   "3"   "4"   "5"   "6"   "7"   "8"   "9"   "a"   "b"   "c"   "d"   "e"   "f"   "A"   "B"   "C"   "D"   "E"   "F"

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### 3.3.12 — URL



An element of the Uniform Resource Locator URL data type specifies the URL where a customer may access information. A URL is of the Narrow Character data type with a length of 1024 Characters (NC-1024). The format of a URL begins with a string that identifies which protocol is to be used to access the information, such as "http://".

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### 3.3.13 — HexBin

Each "HexBin" character will define the 4-bit "nibble" of the 8-bit byte transformed into a hex character, with the maximum length (n) of the transformation specified.

The HexBin represents arbitrary hex-encoded binary data. The value space of HexBin is the set of finite-length sequences of binary octets. Each binary octet is encoded as a character tuple, consisting of two hexadecimal digits ([0-9, A-F]) representing the octet code. For example, "0FB7" is the hex encoding for the 16-bit integer 4023 (whose binary representation is 111110110111).

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### 3.3.14 — IFXPath

The IFXPath datatype is derived from the XMLPath construct. IFX uses a restricted subset of as a means of specifying elements of an IFX object where appropriate in messages,

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## 4 — IFX Object Framework

All IFX objects can be thought of as implementing a common pattern we refer to as the IFX object pattern.

This section, and the sections that follow use five terms to describe the "requirements" for object segments. These terms address two concepts, what an object must define and what its serialized representation must include. Normally the two are the same but it is possible for data that must be defined to be optional (or even "not allowed") in a serialized representation. The terms and their meanings are:

- **Mandatory:** The segment, field, property, etc. must be defined. All objects will include this feature.
- **Allowed:** The segment, field, property, etc. may be defined but is not mandatory. Some objects will include this feature. Allowed features cannot be "required" in a serialized representation.
- **Required:** The segment or field must be included in a serialized representation.
- **Optional:** The segment or field may be included in a serialized representation but does not have to be.
- **Forbidden:** The segment or field cannot be included in a serialized representation. This value is limited to highly secure data which cannot be disclosed (i.e., passwords, PINs, etc.).

A full object xxx can be represented by an "xxxRec" aggregate that consists of:

- xxxId: A mandatory required field of type "Identifier". This component supports an "identity" behavior allowing all IFX objects to be referred to or identified. An Identifier is an unstructured string of 36 narrow characters that is unique to an IFX object. All IFX objects must have an Identifier, though it is only guaranteed at the server that issued it.
- xxxInfo: A mandatory required aggregate that contains the client modifiable properties of the object. This component supports a "modify" behavior that allows its contents to be changed by a client under server control. The Info Aggregate of an object contains most business related properties of an object, and is the portion most likely to be used by an application, as it will usually define the key features of an IFX object.
- xxxEnvr: The Environment aggregate describes the environmental data that is defined by the server. This data is generally technical data, such as the time of the creation of an object (CreatedDt), the time of the object's latest update (LastUpdateDt), and the owner of the object (PartyKeys). data that is important to the creation and use of an object but does not change after it is added. This aggregate extends the BaseEnvr aggregate.
- xxxAuth: An allowed optional aggregate that contains authentication information and requirements for the object. This aggregate is used selectively, as it contains passwords, PINs, certificates, and similar pieces of information that will not generally be shown outside of the server that manages the data (it will be considered write only). It can be used for objects which can be accessed directly by end users (i.e., party and account objects), for selected objects.
- xxxStatus: A required aggregate, the Status segment contains the current state of the object. Any object that is persistent must have a status. The actual data contained in a status segment is dependent on the actual object but the following will be supported; a status code whose values are dependent on the type of object, a status effective date time, and an indication of who made the last change or how it was made. At a minimum all object status codes will support values of "valid" and "deleted".
- xxxRef: A reference segment is an indirect reference to another object; either that object's Id, a serialized representation of the object, or any natural business keys defined for the object.
- xxxKeys: The Keys segment describes unique identifies that reference and object. In addition to the xxxId which is the IFX identifier, there are often business attributes that can uniquely address an object. For example, an Account Number is a business attribute that can be used to look up a specific account. xxxKeys is always included in xxxRef.
- xxxSel: A selection segment is an indirect reference to a collection of other objects. On the wire, it will contain a list of Ids of other IFX objects, and is used to locate similar objects.<sup>3</sup>

An object may also include an SvclIdent aggregate to specify the ultimate owner of the object. This aggregate facilitates global identification of an object by specifying the server and service that are ultimately responsible for the object (i.e., the "owner of record"). This will not normally be used in single server implementations but may be necessary for multi-tier

implementations when not all operations are "passed through" the first tier server. An example implementation that would require this would be a "directory" server, one which knows where to find objects (i.e., customers, accounts, etc.) but does not support any other services. The client would request the object (i.e., xxxInqRq) from the directory server and perform any other operations (i.e., xxxModRq, etc.) directly with the owning service as described in the SvclIdent aggregate.

#### 4.1 — Object Representation (xxxRec)

When constructed in serialized object format the xxx object will look as follows:

Tag	Type	Usage	Description/Context notes
begin Aggregate			
SvclIdent	Aggregate	Optional	Service Identifier
xxxId	Identifier	Required	Object Identifier
xxxInfo	Aggregate	Required	Object Information
xxxEnvr	Aggregate	Optional	Object Environment
xxxAuth	Aggregate	Optional	Object Pattern Authentication
xxxStatus	Aggregate	Required	Object Status
end Aggregate			

#### 4.2 — Object Status Representation (xxxStatusRec)

All objects have a limited view that allows the status of an object to be determined or modified. This view is used when the object detail is not required or is inappropriate for transmission. When presented in serialized format the xxxStatus representation will look as follows:

Tag	Type	Usage	Description/Context notes
begin Aggregate			
SvclIdent	Aggregate	Optional	Service Identifier
xxxId	Identifier	Required	Object Identifier
xxxStatus	Aggregate	Required	Object Status
end Aggregate			

#### 4.3 — Object Authorization Representation (xxxAuthRec)

Selected objects have a limited view that allows access authorization information related to an object to be determined or modified. This view is used when the authorization information needs to be verified or changed. Normally authorization information is not transmitted to a client. However, in some applications a private question will be presented to a client for user verification. When presented in serialized format the xxxAuth representation will look as follows:

Tag	Type	Usage	Description/Context notes
begin Aggregate			
SvclIdent	Aggregate	Optional	Service Identifier
xxxId	Identifier	Required	Object Identifier

xxxAuth	Aggregate	Required	Object Pattern Authentication
end Aggregate			

---

#### 4.4 — Extending an Object

If the base aggregate is abstract a substitution group is created (the base aggregate cannot exist on the wire, it must be replaced by an extension). If the base aggregate is not abstract a new independent aggregate will be created.

Individual segments within an object can be extended as necessary to produce more specialized objects. For example, an object called Account could be extended to make a DepositAccount by extending the AccountInfo segment. The new DepositAccountInfo segment contains all of the features from the AccountInfo segment (it extends AccountInfo) plus any additional features added within the DepositAccountInfo segment itself. When this is done DepositAccountInfo can replace AccountInfo anywhere in the standard. The implication of this is that the object representation AccountRec can refer to a generic account object if it contains an AccountInfo segment or a deposit account object if it contains a DepositAccountInfo segment. It is theoretically possible to create a DepositAccountRec which can only be a DepositAccount object but this is rarely necessary and is generally discouraged.

Any of the segments that make up a object can be extended. The Info segment is the most common segment for extensions but Envr and Status are also likely (Auth is unlikely but still possible). Sometimes it is necessary to extend multiple segments to create the desired feature set. In the case of the DepositAccount object it may be necessary to provide additional status data through a DepositAccountStatus segment. When this is done all segments must be constructed consistently. If DepositAccountInfo extends AccountInfo then DepositAccountStatus must extend AccountStatus. It is not allowed that one be constructed as an extension and the other as a complete (non-extended) object segment. It is also required that if one segment is replaced in an object representation, all must be replaced consistently. In the above example, if an AccountRec contains a DepositAccountInfo segment it must also contain a DepositAccountStatus segment.

One of the implications of this design is that objects like the Account object are polymorphic. If a client asks for an Account object the server could return an Account object or any object that extends the Account object. This is also true when a client adds an account. The client can send an AccountAddRq message with a DepositAccountInfo segment which will cause the server to build a deposit extended account object.

If, in designing a set of objects, it is determined that a base object segment is not meaningful by itself, it can be defined as abstract, which prevents it from appearing anywhere in the runtime representation of the standard (i.e., on the wire). In the above case, AccountInfo could be deemed incomplete and marked as abstract. If that were done the AccountAddRq message could only contain DepositAccountInfo and the AccountRec only DepositAccountInfo and DepositAccountStatus. This technique is useful when there are related objects which are logically similar but which do not

contain a useful common set of data (i.e., persons vs, companies/organizations).

---

## **5 — IFX Message Framework**

Like objects, all IFX messages are patterned after a common set of conceptual IFX messages. These message implement a well defined set of actions on IFX objects. The use of a common pattern related behaviors is intended to make programming of IFX systems easier and their operation more predictable.

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### **5.1 — Message Summary**

<section intentionally left blank>

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#### **5.1.1 — Add Messages**

The xxx Add message supports creating a new instance of an xxx object.

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#### **5.1.2 — Advise Messages**

The xxx Advise message is used to notify interested parties that an xxx object was created or modified.

The Advise message set does not imply any action to take such as add, or update. It is up to the receiving entity to decide what action to take based on the contents of the Advise message. The Advise Request message contains the object record information or object id. The Advise Response messages allow a status to be returned, acknowledging having received the request.

---

#### **5.1.3 — Audit Messages**

The xxx Audit message supports the ability for the client to trace the message history for all changes impacting the specified xxx object.

Audit in the IFX Specification refers to those messages that allow clients to receive specific message responses that change the state of an object, or class of objects, stored on the server since some past point in time. This "past point in time" is identified by customer-specified audit selection criteria, such as a DateTime range.

Clients initiate audits to find out which messages were executed that caused the server to get to the current state. Clients initiate inquiry messages to view the current state of an object, or class of objects.

The server should return as many state changes as are practical in response to an audit request. The specific type of object determines state changes. Most objects have a clear life cycle, from creation to deletion. Each status change must be reported using the appropriate add, modify, delete/cancel message response.

The life cycle of some objects, e.g. a payment, is more complex. Information about a payment may change after it moves from a pending state to a processed state. The state change from pending to processed, and any subsequent changes must be included in the Audit response as modification response messages.

Audit must contain all messages where the < Severity > within < Status > is Info or Warn. Audit may contain messages where the < Severity > is Error, at server discretion.

---

#### **5.1.4 — Authorization Inquiry Messages**

The xxx Authorization Inquiry message is used to request an inquiry of authorization information for the specified xxx object.

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#### **5.1.5 — Authorization Modify Messages**

The xxx Authorization Modify message is used to change authorization information for the specified xxx object.

---

#### **5.1.6 — Cancel Messages**

The xxx Cancel message is used by a client to cancel a previously added instance of an xxx object, or cancel an existing scheduled object.

---

#### **5.1.7 — Delete Messages**

The xxx Delete message removes an existing object. In certain instances, deleting an object will require additional Cancel and/or Delete message to related objects within the object hierarchy. This process is called Cascading Deletes. For more information on Cascading Deletes, click here (link to document page).

---

#### **5.1.8 — Inquiry Messages**

The Inquiry Message is used to search for and/or gain information about the current state of existing xxx objects. Inquiry messages limit the response set to records matching the Select fields included in the request.

Several <Status> codes are available to help the client understand the results of an Inquiry Message:

- 1120 indicates that all of the search criteria that the server was aware of were applied, and no records that matched the search criteria were found.
- 1140 indicates that some, but not all, of the search criteria that the server was aware of were applied, and records were found that matched the search criteria used.
- 1160 indicates that none of the search criteria that the server was aware of were applied, and an unfiltered set of records were found for the implicit search criteria.

The phrase "that the server was aware of" is used to recognize the situation that a client is implemented using a more recent level of the IFX spec than the server has implemented. If the later version added optional search criteria, the server won't be aware of them. The client may test the <Version> value within the <SvcCore> aggregate to determine if the server is implemented to an older version of IFX. The client may use this knowledge to better interpret the <Status> code values.

Note: A server is not obligated to support filtering on all selection criterion elements. If a server chooses not to support a particular element as a selection criterion, it must treat that element as if it were not present in the request. That is, the server must return the appropriate record set for the elements on which it does support filtering. As a result, clients should be prepared to receive records outside the scope of the selection criteria submitted in the request.

---

### 5.1.9 — Modify Messages

The xxx Modify message is used to modify the information previously supplied in an xxx Add request. There 2 distinct possibilities for xxxMod behavior. In either case, The Modify message must act on exactly one identifiable object.

#### **Client or Server does not support IFXPath.**

If either a client or server does not support IFXPath the appropriate Modify request message and replaces the entire existing object (all properties) with the newly submitted object. Therefore, within a modify request message, all properties of the object that are intended to be stored must be included, even if the values are not modified.

The complete replacement requirement for specific objects can be adjusted to meet the needs of specific applications. This adjustment is intended to support data within an object that cannot be modified (e.g., the Create Date). The fields affected by this adjustment must be established out of band, often through an application specific implementation guide.

#### **Client and Server support IFXPath**

The xxx Modify message is used to modify the information previously supplied in an xxx Add request. The Modify message acts as a complete replacement of the specified object, unless the Mod message includes aggregates that indicate the specific elements updated (DelElements, UpdElements, NewElements).

If a client includes DelElements, UpdElements or NewElements but the server does not support these IFXPath constructs, the server must respond with an error [6411 Feature not supported].

---

### **5.1.10 — Reversal Messages**

The xxx Reversal message is used to reverse the effect of a message. This must either refer to the modification of an existing instance of an object xxx (such as reversing an existing debit using <DebitRevRq> ) or a message that has been used to inquire on an object (such as reversing a balance inquiry by using <ActRevRq> in reference to an <ActInqRq> ).

This is a message based reversal that is used to tell the server that the previous action should be disregarded (such as an <ActRevRq> in reference to an <ActInqRq>) or the effect of the original message on its object is unknown by the application generating the reversal (such as reversing a <DebitAddRq> when the <DebitAddRs> has not been received and its status is unknown). The Reversal message should be used when the object identifier or the state of the object is not known.

In general, the Reversal message provides the capability to "undo" a previous request. For example, performing a reversal on a modify request would place that object back to the state it was in prior to the modification.

For a client to be able to send a reversal message request, it must be capable of saving or recreating the original request message that is being reversed. Also, a reversal message cannot be reversed.

Note: A request to reverse a message is not guaranteed to be successful. The reversal of the last operation on an object (O-1) is most likely to be successful. The reversal of an operation prior to the most recent one on an object (O-2, O-3, etc.) is not as likely to be successful. (Example 1 - If an object add was followed by an object modify, it is likely an object modify reversal will cause the object to be back to the original object add state. Example 2 - If an object add was followed by an object modify #1 then an object modify #2, an object modify #1 reversal would not likely be successful however an object modify #2 reversal would have a good chance of being successful.).

---

### **5.1.11 — Status Inquiry Messages**

The xxx Status Inquiry message allows a user to inquire on the status of an xxx object.

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### **5.1.12 — Status Modify Messages**

The xxx Status Modify message allows a user to change the status of an xxx object.

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### 5.1.13 — Sync Messages

The xxx Sync messages provide the ability for a client device to be brought up to date on changes made to the specified xxx object.

Synchronization in the IFX Specification refers to those messages that allow clients to receive specific message responses that change the state of an object, or class of objects, stored on the server since some past point in time. This "past point in time" is identified by a server-assigned token. The server-assigned token is only meaningful to the server that assigned it.

"Thick" (stateful) clients send synchronization requests to find out what messages were executed that caused the server to get to the current state, so as to synchronize their local data with the server (system of record). Clients send inquiry requests to view the current state of an object, or class of objects.

The server should return state changes using the same rules as Audit. However, at server discretion, multiple messages in a Sync may be "collapsed" into a single message. The resultant collapsed message must provide information sufficient to bring the client up to date. For example, if an object has been modified several times, then deleted, it is sufficient for the server to return only the <xxxDelRs> response in a Sync.

The Sync response includes a playback of messages for a single customer. In it, the messages that affect a specific object must be returned in the order that that server processed them, i.e. ascending by <EffDt> . Examples of objects that the Sync refers to are a payment, in the case of <PmtSyncRq> . A client that maintains local data, sometimes referred to as "thick" or "stateful" client, should apply the changes in the order received to synchronize its local data with that maintained by the server (system of record).

A server may, at its discretion, choose not to maintain sufficient history to reliably update the client to be consistent with the current data at the server. When the <Token> supplied by the client in a Sync request is older than the history maintained by the server, the server must return <Status> with <Severity> Error. The server must not return any message records within the response because the client is asking for more history than the server maintains. The typical client error recovery should be to issue an inquiry message to receive the current status of the object class, e.g. payments, intrabank transfers, etc.; and use it to synchronize its local database.

---

### 5.2 — xxxAddRq (Add method request/invocation)

Tag	Type	Usage	Description/Context notes
begin Aggregate			
RqUID	UUID	Required	Request Identifier
MsgRqHdr	Aggregate	Optional	Message Request Header
xxxInfo	Aggregate	Required	Object Information
xxxAuth	Aggregate	Optional	Object Pattern Authentication
end Aggregate			

### 5.3 — xxxAddRs (Add method response/completion)

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
Status	Aggregate	Optional	Response Status
RqUID	UUID	Required	Request Identifier
MsgRsHdr	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
xxxRec	Aggregate	Required	Object Record
xxxStatusRec	Aggregate	Required	Object Status Record
end-xor			
end-block			
end Aggregate			

The StatusRec can be used for two reasons; the object creation process is long running and has not completed yet (status and status rec should both reflect this) or if the object is such that privacy or security requirements prevent the server from returning the actual object data. Specific objects can implement either the rec, the status rec or both in add responses based on application requirements.

The default server behaviour will be to return an xxxStatusRec unless the client requests additional information. Light object syntax should be used to request a partial (light) or full xxxRec. See the light object description later in this document for details on how that is done.

If the server does not support light object selection it must return the entire record (i.e., xxxRec) as it offers no mechanism for the client to select additional data.

### 5.4 — xxxModRq (Modify method request/invocation)

Tag	Type	Usage	Description/Context notes
begin Aggregate			
RqUID	UUID	Required	Request Identifier
MsgRqHdr	Aggregate	Optional	Message Request Header
xxxKeys	Aggregate	Required	(Object Pattern) Keys Aggregate
begin-block		Required Repeating	
xxxInfo	Aggregate	Required	Object Information
begin-xor		Optional Repeating	
DelElements	lfxPath	Required	An lfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to delete. It is an error if one attempts to delete Required fields.
UpdElements	lfxPath	Required	An lfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to update. The new value of the updated element is in the accompanying xxxInfo aggregate.
end-block			
end-xor			
end Aggregate			

NewElements	lfxPath	Required	An lfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to add. The new value of the new elements is in the accompanying xxxInfo aggregate.
end-xor			
end-block			
end Aggregate			

## 5.5 — xxxModRs (Modify method response/completion)

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
Status	Aggregate	Optional	Response Status
RqUID	UUID	Required	Request Identifier
MsgRsHdr	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
xxxRec	Aggregate	Required	Object Record
xxxStatusRec	Aggregate	Required	Object Status Record
end-xor			
end-block			
end Aggregate			

The default server behaviour will be to return an xxxStatusRec unless the client requests additional information. Light object syntax should be used to request a partial (light) or full xxxRec. See the light object description later in this document for details on how that is done.

If the server does not support light object selection it must return the entire record (i.e., xxxRec) as it offers no mechanism for the client to select additional data.

## 5.6 — xxxDelRq (Delete method request/invocation)

Tag	Type	Usage	Description/Context notes
begin Aggregate			
RqUID	UUID	Required	Request Identifier
MsgRqHdr	Aggregate	Optional	Message Request Header
xxxKeys	Aggregate	Required	(Object Pattern) Keys Aggregate
end Aggregate			

## 5.7 — xxxDelRs (Delete method response/completion)

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
Status	Aggregate	Optional	Response Status
RqUID	UUID	Required	Request Identifier
MsgRsHdr	Aggregate	Optional	Message Response Header
end-block			

begin-block		Optional	required if message is successful
begin-xor		Required	
xxxRec	Aggregate	Required	Object Record
xxxStatusRec	Aggregate	Required	Object Status Record
end-xor			
end-block			
end Aggregate			

The default server behavior will be to return an xxxStatusRec unless the client requests additional information. Light object syntax should be used to request a partial (light) or full xxxRec. See the light object description later in this document for details on how that is done.

If the server does not support light object selection it must return the entire record (i.e., xxxRec) as it offers no mechanism for the client to select additional data.

---

## 5.8 — xxxCanRq (Cancel method request/invocation)

Tag	Type	Usage	Description/Context notes
begin Aggregate			
RqUID	UUID	Required	Request Identifier
MsgRqHdr	Aggregate	Optional	Message Request Header
xxxKeys	Aggregate	Required	(Object Pattern) Keys Aggregate
end Aggregate			

---

## 5.9 — xxxCanRs (Cancel method response/completion)

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
Status	Aggregate	Optional	Response Status
RqUID	UUID	Required	Request Identifier
MsgRsHdr	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
xxxRec	Aggregate	Required	Object Record
xxxStatusRec	Aggregate	Required	Object Status Record
end-xor			
end-block			
end Aggregate			

The default server behaviour will be to return an xxxStatusRec unless the client requests additional information. Light object syntax should be used to request a partial (light) or full xxxRec. See the light object description later in this document for details on how that is done.

If the server does not support light object selection it must return the entire record (i.e., xxxRec) as it offers no mechanism for the client to select additional data.

## 5.10 — xxxInqRq (Inquiry method request/invoke)

Tag	Type	Usage	Description/Context notes
begin Aggregate			
RqUID	UUID	Required	Request Identifier
MsgRqHdr	Aggregate	Optional	Message Request Header
DocCtrlIn	Aggregate	Optional	Document Control Input
RecCtrlIn	Aggregate	Optional	Records Control Input
begin-xor		Optional Repeating	
xxxSel	Aggregate	Required	(Object Pattern) Selection Aggregate
RecSelect	lfxPath	Required	Record Select
end-xor			
end Aggregate			

Document control is not a required part of the Inq message pattern. It is intended for use by document related inquiries. Record related inquiries typically will not use it and do not need to define it.

## 5.11 — xxxInqRs (Inquiry method response/completion)

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
Status	Aggregate	Optional	Response Status
RqUID	UUID	Required	Request Identifier
MsgRsHdr	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
DocCtrlOut	Aggregate	Optional	Document Control Output
RecCtrlOut	Aggregate	Optional	Records Control Output
xxxRec	Aggregate	Required Repeating	Object Record
end-block			
end Aggregate			

Document control is not a required part of the Inq message pattern. It is intended for use by document related inquiries. Record related inquiries typically will not use it and do not need to define it.

## 5.12 — xxxAdviseRq (Advise method request/invoke)

Tag	Type	Usage	Description/Context notes
begin Aggregate			
RqUID	UUID	Required	Request Identifier
MsgRqHdr	Aggregate	Optional	Message Request Header
begin-xor		Required	
xxxRec	Aggregate	Required	Object Record
xxxStatusRec	Aggregate	Required	Object Status Record
xxxAuthRec	Aggregate	Required	Object Authentication Record

end-xor
end Aggregate

### 5.13 — xxxAdviseRs (Advise method response/completion)

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
Status	Aggregate	Optional	Response Status
RqUID	UUID	Required	Request Identifier
MsgRsHdr	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
xxxRec	Aggregate	Required	Object Record
xxxStatusRec	Aggregate	Required	Object Status Record
xxxAuthRec	Aggregate	Required	Object Authentication Record
end-xor			
end-block			
end Aggregate			

### 5.14 — xxxStatusModRq (StatusMod method request/invocation)

Tag	Type	Usage	Description/Context notes
begin Aggregate			
RqUID	UUID	Required	Request Identifier
MsgRqHdr	Aggregate	Optional	Message Request Header
xxxKeys	Aggregate	Required	(Object Pattern) Keys Aggregate
xxxStatus	Aggregate	Required	Object Status
end Aggregate			

### 5.15 — xxxStatusModRs (StatusMod method response/completion)

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
Status	Aggregate	Optional	Response Status
RqUID	UUID	Required	Request Identifier
MsgRsHdr	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
xxxStatusRec	Aggregate	Required	Object Status Record
end-block			
end Aggregate			

### 5.16 — xxxStatusInqRq (StatusInq method request/invocation)

Tag	Type	Usage	Description/Context notes
begin Aggregate			
RqUID	UUID	Required	Request Identifier
MsgRqHdr	Aggregate	Optional	Message Request Header
RecCtrlIn	Aggregate	Optional	Records Control Input

begin-xor		Optional Repeating	
xxxSel	Aggregate	Required	(Object Pattern) Selection Aggregate
RecSelect	IfxPath	Required	Record Select
end-xor			
end Aggregate			

### 5.17 — xxxStatusInqRs (StatusInq method response/completion)

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
Status	Aggregate	Optional	Response Status
RqUID	UUID	Required	Request Identifier
MsgRsHdr	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
RecCtrlOut	Aggregate	Optional	Records Control Output
xxxStatusRec	Aggregate	Optional Repeating	Object Status Record
end-block			
end Aggregate			

### 5.18 — xxxAuthModRq (AuthMod method request/invocation)

Tag	Type	Usage	Description/Context notes
begin Aggregate			
RqUID	UUID	Required	Request Identifier
MsgRqHdr	Aggregate	Optional	Message Request Header
xxxKeys	Aggregate	Optional	(Object Pattern) Keys Aggregate
xxxAuth	Aggregate	Required	Object Pattern Authentication
end Aggregate			

### 5.19 — xxxAuthModRs (AuthMod method response/completion)

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
Status	Aggregate	Optional	Response Status
RqUID	UUID	Required	Request Identifier
MsgRsHdr	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
xxxAuthRec	Aggregate	Required	Object Authentication Record
end-block			
end Aggregate			

### 5.20 — xxxAuthInqRq (AuthInq method request/invocation)

Tag	Type	Usage	Description/Context notes
begin Aggregate			
RqUID	UUID	Required	Request Identifier

MsgRqHdr	Aggregate	Optional	Message Request Header
RecCtrlIn	Aggregate	Optional	Records Control Input
begin-xor		Optional Repeating	
xxxSel	Aggregate	Required	(Object Pattern) Selection Aggregate
RecSelect	IfxPath	Required	Record Select
end-xor			
end Aggregate			

### 5.21 — xxxAuthInqRs (AuthInq method response/completion)

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
Status	Aggregate	Optional	Response Status
RqUID	UUID	Required	Request Identifier
MsgRsHdr	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
RecCtrlOut	Aggregate	Optional	Records Control Output
xxxAuthRec	Aggregate	Optional Repeating	Object Authentication Record
end-block			
end Aggregate			

### 5.22 — xxxAudRq (Audit method request/invocation)

Tag	Type	Usage	Description/Context notes
begin Aggregate			
RqUID	UUID	Required	Request Identifier
MsgRqHdr	Aggregate	Optional	Message Request Header
RecCtrlIn	Aggregate	Optional	Records Control Input
DtRange	Aggregate	Optional	Date Range
Method	Closed Enum	Optional Repeating	Method Valid values are limited to: Add, Advise, AuthMod, Can, Del, Mod, StatusMod
xxxKeys	Aggregate	Optional Repeating	(Object Pattern) Keys Aggregate
end Aggregate			

### 5.23 — xxxAudRs (Audit method response/completion)

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
Status	Aggregate	Optional	Response Status
RqUID	UUID	Required	Request Identifier
MsgRsHdr	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
RecCtrlOut	Aggregate	Optional	Records Control Output
xxxRsMsg	Aggregate	Optional Repeating	Object Message Record
end-block			
end Aggregate			



end-block
end Aggregate

## 5.24 — xxxRevRq (Reversal method request/invocation)

Tag	Type	Usage	Description/Context notes
begin Aggregate			
RqUID	UUID	Required	Request Identifier
MsgRqHdr	Aggregate	Optional	Message Request Header
RevReasonCode	Aggregate	Required	Reversal Reason Code
Desc	C-80	Optional	Description
xxxRqMsg	Aggregate	Required	Object Message Request Information
end Aggregate			

## 5.25 — xxxRevRs (Reversal method response/completion)

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
Status	Aggregate	Optional	Response Status
RqUID	UUID	Required	Request Identifier
MsgRsHdr	Aggregate	Optional	Message Response Header
end-block			
end Aggregate			

## 5.26 — xxxSyncRq (Sync method request/invocation)

Tag	Type	Usage	Description/Context notes
begin Aggregate			
RqUID	UUID	Required	Request Identifier
MsgRqHdr	Aggregate	Optional	Message Request Header
RecCtrlIn	Aggregate	Optional	Records Control Input
xxxKeys	Aggregate	Optional Repeating	(Object Pattern) Keys Aggregate
end Aggregate			

## 5.27 — xxxSyncRs (Sync method response/completion)

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
Status	Aggregate	Optional	Response Status
RqUID	UUID	Required	Request Identifier
MsgRsHdr	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
RecCtrlOut	Aggregate	Optional	Records Control Output
xxxRsMsg	Aggregate	Optional Repeating	Object Message Record
end-block			
end Aggregate			

## 6 — IFX Object Components

To use IFX objects a number of underlying components are required. For the most part, these components are aggregates that appear in IFX messages or objects. Most of these components were described briefly in Section 3. This section describes these components in greater detail.

---

### 6.1 — Identifier (ID)

The identifier (Id) segment contains the name or identifier of the object (similar to a database key). The identifier is set by the server when an object is added and is valid for the life of the object at that server. An identifier is only guaranteed to be valid at the server that issued it. All IFX objects must have an Id.

IFX Identifiers are locally unique for a class of objects. As a practical matter, the name of an Id is defined within an Id namespace. All Ids that share an Id namespace must have unique Ids vis-?-vis other objects with the same namespace. All objects of a class (derived from a common object) share the same Id namespace (i.e., party, person and org).

It is expected that with IFX Version 2 all IFX Ids will be of type Identifier (36 narrow character unstructured string). Support for business and natural keys will be through an object's Ref structure.

---

### 6.2 — Information (Info)

The Info segment contains the properties of the object that are directly maintainable by a client. This segment will contain most of the business related properties and will be the portion of the object most likely to be used by an application. In most cases the Info segment will define the key features of the object. In cases where an object is extended it is most common that the Info segment is the segment that is extended.

---

### 6.3 — Environment (Envr)

The Envr segment contains environmental data that is determined by the server. This data may originate with either the client (in a header) or the server. Usually data in this segment does not change over the life of an object (exception, last update timestamp).

Object specific Envr aggregates extend the BaseEnvr segment. The BaseEnvr Aggregate is an abstract aggregate that is extended to create object specific segments. It is fairly common that no object specific data is added in extending BaseEnvr, the only effect of the extension is to rename BaseEnvr to the appropriate object Envr name.

Data in the Envr aggregate is controlled by the IFX Architecture committee to meet the requirements of expected implementations (i.e., requirements from IFX produced implementation guides). This segment may be

extended by servers to meet internal processing requirements.

## 6.4 — xxxEnvr Extension for Recurring Objects

One case where the base environment is extended is for objects that can be created as a result of the actions of a recurring object. For these objects, the object Envr aggregate will extend BaseEnvr and contain (at least) the following field.

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin Elements from BaseEnvr			
CreatedDt	DateTime	Required	Created Date/Time. The date/time the object was created.
CreateRefIdent	NC-36	Optional	An identifier used to uniquely identify the creation of this object to the system that created the object. This will usually be a link to reference information used in creating the object.
ClientCreateDt	DateTime	Optional	The created date/time as reported by the client. This can vary from the object creation date/time due to time zone differences, communication delays, etc
ClientBusinessDt	DateTime	Optional	The date/time that the client recorded this object for operational purposes. This date/time will often be used to manage the availability of information or funds.
LastUpdateDt	DateTime	Optional	Last update Date/Time. The date/time the object was created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
LastUpdateRqUID	UUID	Optional	Last update RqUID. The RqUID from the message that resulted in th object being created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
LoginName	C-40	Optional	The login name (or Id) of the individual that authorized this object to be created. This is typically used when the object is created on behalf of its owner by someone who is not normally represented as a Party (i.e., an employee or agent).
PartyKeys	Aggregate	Optional	Reference to the Party that this object is owned by or authorized by.
CardKeys	Aggregate	Optional	This is dependent on Card proposal. Currently this is implemented as the CardLogicalData aggregate.
PassbkKeys	Aggregate	Optional	Currently PassbkAcceptData.
NetworkTrnData	Aggregate	Optional	Network Transaction Information. Identification and location of the terminal from which the message originates.
ServerTerminalSeqNum	NC-36	Optional	Server Terminal Sequence Number. A terminal sequence number generated by the server to identify this object. This number is used in ATM and POS environments to uniquely identify transactions (with terminal name and date) for transaction management.
PointOfServiceData	Aggregate	Optional	The Point of Service Data. This aggregate contains information about the environment in which this message originated.
ClientTerminalSeqNum	NC-36	Optional	Client Terminal Sequence Number. A

			terminal sequence number generated by the client to identify this object. This number is used in ATM, POS, Branch, Call Center and Teller environments to uniquely identify transactions at the client (with terminal name and date). This number is often required when requesting supporting documentation related to a customer transaction.
end Elements from BaseEnvr			
<a href="#">RecurxxxKeys</a>	Aggregate	Optional	Key to a recurring object that generated the add request for this object. This field is only used for those objects that have a defined recurring object equivalent (i.e., Xfer and RecurXfer).
end Aggregate			

### 6.4.1 — Base Environment (BaseEnvr)

The base environment aggregate (BaseEnvr) is an abstract aggregate that is extended for each object to create an object specific environment aggregate.

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">CreatedDt</a>	DateTime	Required	Created Date/Time. The date/time the object was created.
<a href="#">CreateRefIdent</a>	NC-36	Optional	An identifier used to uniquely identify the creation of this object to the system that created the object. This will usually be a link to reference information used in creating the object.
<a href="#">ClientCreateDt</a>	DateTime	Optional	The created date/time as reported by the client. This can vary from the object creation date/time due to time zone differences, communication delays, etc
<a href="#">ClientBusinessDt</a>	DateTime	Optional	The date/time that the client recorded this object for operational purposes. This date/time will often be used to manage the availability of information or funds.
<a href="#">LastUpdateDt</a>	DateTime	Optional	Last update Date/Time. The date/time the object was created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LastUpdateRqUID</a>	UUID	Optional	Last update RqUID. The RqUID from the message that resulted in th object being created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LoginName</a>	C-40	Optional	The login name (or Id) of the individual that authorized this object to be created. This is typically used when the object is created on behalf of its owner by someone who is not normally represented as a Party (i.e., an employee or agent).
<a href="#">PartyKeys</a>	Aggregate	Optional	Reference to the Party that this object is owned by or authorized by.
<a href="#">CardKeys</a>	Aggregate	Optional	This is dependent on Card proposal. Currently this is implemented as the CardLogicalData aggregate.
<a href="#">PassbkKeys</a>	Aggregate	Optional	Currently PassbkAcceptData.
<a href="#">NetworkTrnData</a>	Aggregate	Optional	Network Transaction Information. Identification and location of the terminal from which the message originates.

ServerTerminalSeqNum	NC-36	Optional	Server Terminal Sequence Number. A terminal sequence number generated by the server to identify this object. This number is used in ATM and POS environments to uniquely identify transactions (with terminal name and date) for transaction management.
PointOfServiceData	Aggregate	Optional	The Point of Service Data. This aggregate contains information about the environment in which this message originated.
ClientTerminalSeqNum	NC-36	Optional	Client Terminal Sequence Number. A terminal sequence number generated by the client to identify this object. This number is used in ATM, POS, Branch, Call Center and Teller environments to uniquely identify transactions at the client (with terminal name and date). This number is often required when requesting supporting documentation related to a customer transaction.
end Aggregate			

## 6.5 — Authentication (Auth)

The Auth segment contains authentication and authorization information, for selected objects that need to be accessed externally. This segment encodes data maintained by the current "AuthMod" messages. It is likely to be required for objects that represent external entities or relationships to external entities (i.e., party, account, etc.)

Object specific authentication aggregates are based on the following segment pattern. It is fairly common that no object specific data is added to the basic pattern.

An object Auth segment will contain passwords, PINs, certificates, etc. and supporting data. In general, data in this segment will not be exposed outside of the server that manages the data, it will normally be considered write only. This segment implies either an authenticate or authorize (or both) function. Currently this function is not implemented directly in IFX but may be used indirectly by a server when processing messages against an object.

### 6.5.1 — Authentication Pattern (xxxAuth)

The base authentication aggregate (BaseAuth) is an aggregate pattern that is used for selected objects to create an object specific authentication aggregate.

Tag	Type	Usage	Description/Context notes
begin Aggregate			
SecToken	Abstract Aggregate	Required	Security Token  <b>Valid Concrete Aggregates include:</b> SecTokenCard, SecTokenCert, SecTokenICC, SecTokenIssuedIdent, SecTokenKey, SecTokenLogin, SecTokenMagCard, SecTokenObject, SecTokenParty, SecTokenSecretAnswer
Choose Tag		Optional	elements and aggregates as required by the business model

end Aggregate

## 6.6 — Status (xxxStatus)

The Status segment contains the current state of the object. Any object that is persistent must have a status. The actual data contained in a status segment is dependent on the actual object but the following will be supported; a status code whose values are dependent on the type of object, a status effective date time, and an indication of who made the last change or how it was made. Generally, most object status codes will support values of "Valid" and "Deleted".

Tag	Type	Usage	Description/Context notes
begin Aggregate			
xxxStatusCode	Open Enum	Required	(Object Pattern) Status Code Valid values include: Deleted, Valid
StatusDesc	C-255	Optional	Status Description
EffDt	DateTime	Optional	Effective Date Time
ApprovalIdent	NC-36	Optional	Approval Identifier
StatusModBy	Open Enum	Optional	Status Modified By Valid values include: BPP, BPPSR, BSP, BPSR, CPP, CPPSR, CSP, CSPSR, Customer, FI, PSP
end Aggregate			

## 6.7 — Keys (xxxKeys)

A keys segment is an indirect reference to another object. On the wire it will usually contain the Id of another IFX object but it supports other options. The supported keys options are the target object's Id and any defined business or natural keys for the target object.

The primary requirement for a Keys aggregate is that it selects one target object or fails. A keys value that can match multiple target objects on a server is invalid and either must be resolved by the server using a business priority scheme or failed. A keys aggregate with a specific set of data must always refer to the same object on a specific server unless maintenance on the server was performed that specifically altered that linkage. A server is not allowed to resolve a keys aggregate differently on consecutive server messages. As an example, a ModRq followed by a StatusModRq using the same keys must be applied against the same object. If a server receives a keys aggregate that contains an Svclnt that it does not have a business relationship with and cannot resolve it should fail the reference.

The following is the format of the object keys aggregate:

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin Elements from BaseKeys			
end Elements from BaseKeys			
Svclnt	Aggregate	Optional	Service provider name. May be provided by the client to clearly identify which

			service provider manages the object. It is required in instances where the owner would otherwise be ambiguous.
begin-xor		Required	
xxId	Identifier	Required	The object Id.
Choose Tag		Required	Business keys can be optionally defined for an object. Business keys are selection fields based on data within the object that result in the selection of exactly one result object (both zero and more than one are errors). This is where object specific business keys are located if defined.
end-xor			
end Aggregate			

### 6.7.1 — Base Keys (BaseKeys)

The base keys aggregate (BaseKeys) is an empty abstract aggregate that is extended for each object to create an object specific keys aggregate. By including < BaseKeys > in an aggregate, the creator is allowing any of BaseKeys extensions to be used in its stead.

Tag	Type	Usage	Description/Context notes
begin Aggregate			
end Aggregate			

### 6.8 — Reference (xxxRef)

A Reference segment is an indirect reference to another object. On the wire it will usually contain the Id of another IFX object, but it supports other options. The supported reference options are the target object's Id, a serialized representation of the target object, and any defined business or natural keys for the target object.

The primary requirement for a Reference is that it selects one target object or fails. A reference value that can match multiple target objects on a server is invalid and either must be resolved by the server using a business priority scheme or failed. A reference with a specific set of data must always refer to the same object on a specific server unless maintenance on the server was performed that specifically altered that reference. A server is not allowed to resolve a reference differently on consecutive server messages. As an example, a ModRq followed by a StatusModRq using the same reference must be applied against the same object. If a server receives a reference that contains an Svclntent that it does not have a business relationship with and cannot resolve it should fail the reference.

The Light Object Selection criteria (below) allows for data to be selected within a Reference allowing the client to control serialization.

The following is the format of the object reference aggregate:

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	

xxxKeys	Aggregate	Required	(Object Pattern) Keys Aggregate
xxxRec	Aggregate	Required	Object Record
xxxInfo	Aggregate	Required	Object Information
end-xor			
end Aggregate			

## 6.9 — Selection (xxxSel)

A Selection segment is an indirect reference to a collection of other objects. On the wire it will usually contain a list of Ids of other IFX objects but it supports other options. The supported selection options are a list of target object's keys, and any defined selection criteria for the target object.

The primary requirement for a Reference is that it selects one or more target objects (selecting zero is not an error but results in a warning). If a server receives a selection that contains an Svclident that it does not have a business relationship with and cannot resolve it should fail the reference.

The following is the format of the object selection aggregate:

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required Repeating	
xxxKeys	Aggregate	Required	The object Id and related business keys.
Choose Tag		Optional	Selection criteria can be optionally defined for an object. Selection criteria are selection fields based on data within the object that result in the selection of zero or more result objects (both zero, not found, and more than one are valid results). This is where object specific selection criteria are located if defined.
end-xor			
end Aggregate			

## 6.10 — IFX Path

The IFXPath datatype is derived from the XMLPath construct. IFX has determined that a restricted set of XMLPath will provide us the necessary means of specifying elements of an IFX object and, where appropriate, The first and primary purpose of the IFXPath field is to refer to one or more fields or aggregates in a message or object. We refer to fields and aggregates to indicate that they are "of interest" to us; we want to do something with them. The something could be that we want to display them or that we want to perform a comparison or other operation on them. The starting point, before we can do something with a field, is to identify the field. The following are some examples of how to do that.

The basic field identification looks like:

/DebitRec/DebitInfo/DebitType

This path value identifies the DebitType field in a specific debit object that is of interest. This is the simplest representation of a path and identifies one field in an object. The following is similar except that it selects an



entire aggregate. In this case the address of the device where a debit transaction occurred is identified.

```
/DebitRec/DebitInfo/NetworkTrnInfo/PostAddr
```

Another variation on this theme is:

```
/DebitRec/DebitInfo/CompositeCurAmt
```

This path value identifies all CompositeCurAmt aggregates as being of interest. This is a very common type of selection, if you are interested in details about a Debit object you will likely be interested in all of the amount aggregates. The following variation selects only the CurAmt field in all of the CompositeCurAmt aggregates.

```
/DebitRec/DebitInfo/CompositeCurAmt/CurAmt
```

If you are only interested in some of CompositeCurAmt aggregates, they can be selected based on data within the aggregate. An example of doing that is illustrated here.

```
/DebitRec/DebitInfo/CompositeCurAmt  
[CompositeCurAmtType="Debit"]
```

The first illustrates identifying a specific entry by index and the second identifying zero, one or more entries by the contents of the aggregate. The next example identifies only the CurAmt in all selected CompositeCurAmt aggregates.

```
/DebitRec/DebitInfo/CompositeCurAmt  
[CompositeCurAmtType="Debit"]/CurAmt
```

An interesting variation on the above theme is to use a field name without a compare value. That is not useful in the above case because CompositeCurAmtType is a required field and always present. However, for optional fields it can be very useful. The following example identifies the rate in all instances where the amount is recorded as a rate.

```
/DebitRec/DebitInfo/CompositeCurAmt[Rate]/Rate
```

Combining the following two path statements will give you all of the required financial information relative to a Debit object.

```
/DebitRec/DebitInfo/CompositeCurAmt[CurAmt]/CurAmt  
/DebitRec/DebitInfo/CompositeCurAmt[Rate]/Rate
```

The previous statements can be expressed using the following equivalent representation:

```
/DebitRec/DebitInfo/CompositeCurAmt[CurAmt]/CurAmt  
| /DebitRec/DebitInfo/CompositeCurAmt[Rate]/Rate
```

All the examples up to this point use an absolute point of reference (i.e., the root of the object or message). Some servers may support alternate

points of reference. A single forward slash indicates that an absolute point of reference is being used. No slash indicates the current point of reference should be used and a double slash indicates that the search should include all points of reference (i.e., anywhere in the object or message). When current point of reference is supported the parent point of reference usually is as well. The current point of reference is indicated by a single period (".") and the parent point of reference is indicated by two periods (".."). The previous statement can be rewritten to give similar results using various point of references. A few are illustrated here:

```
//CompositeCurAmt[CurAmt]/CurAmt | //CompositeCurAmt
[Rate]/Rate
/DebitRec/DebitInfo/CompositeCurAmt[CurAmt]/CurAmt | ..
[Rate]/Rate
```

The use of the "/" reference should be uncommon in IFX. Most IFX aggregates occur in very specific places in messages and objects so do not benefit from extended searches. Use of the this type of reference usually just adds overhead to a server's processing without adding any benefit. Note also that the XPath specification allows the "/" operator between nodes (i.e., /DebitRec//CurAmt would select CurAmt anywhere in a debit object). The IFX implementation does not currently include support for this usage.

One additional issue related to identification is what is a server required to provide if an aggregate is identified. Two representations of this situation are defined. They are:

```
/DebitRec/DebitInfo/NetworkTrnInfo/PostAddr
/DebitRec/DebitInfo/NetworkTrnInfo/PostAddr/*
```

The first can be considered a permissive request for a terminal's address information. The server will provide any required fields and a reasonable subset of the remaining information, possibly including child aggregates under PostAddr. The second is a forced request for all data within and under the PostAddr aggregate. In this case the server is required to provide all available information or to fail the request (i.e., for security reasons). In most cases the results of the two requests will be the same but there will be some cases where the permissive request will result in smaller and more reasonable responses.

Many times the purpose of a path field is just to identify fields. In that case you are now done. The above examples give you a good idea how to identify specific fields. Once that is done you don't have to do anything more. In other cases, once you have identified a field you have to operate on it. The most common operation in IFX is a conditional selection operation. This operation allows you to search for objects with specific characteristics and return only those objects that exhibit the desired characteristics. The above examples showed a limited set of operations that perform this kind of function. The remaining examples illustrate a number of additional techniques for selecting objects based on their data contents.

To select objects from the object store you need a set of logical or

conditional operators to define your criteria. The following table shows the operators that IFX recommends that a server support.

Operator	Operation Description
<	less than
>	greater than
<=	less than or equal to
>=	greater than or equal to
=	boolean equals (not assignment)
!=	not equal to
or	boolean or (also represented as " ")
and	boolean and (also represented as "&")

In the previous examples there were several cases where the ?boolean equal? operator was used. Where ever that was used the other operators are allowed as well. The above request for Debit amount types can easily be changed to request everything else by changing the equal to not equal. This condition can be more complex by using the ?and? and ?or? operators.

```
/DebitRec/DebitInfo/CompositeCurAmt[CompositeCurAmtType!
="Debit"]
```

Similarly, if you are only interested in significant events, you can select data based on the value in a field. The next example includes two different conditional statements. It effectively returns the CurAmt for all debit amount types in debit objects where the CurAmt is greater than or equal to 100.00.

```
/DebitRec/DebitInfo/CompositeCurAmt
[CompositeCurAmtType="Debit" & CurAmt>=100.00]/CurAmt
```

If a server supports the current point of reference then the above path can be expressed equivalently as:

```
/DebitRec/DebitInfo/CompositeCurAmt
[./CompositeCurAmtType="Debit"]/CurAmt[.>=100.00]
```

All of the above operators are left associative with the following order of precedence:

- or
- and
- =, !=
- <=, <, >=, >

WARNING: If the "<", ">" or "&" characters appear as part of a path expression in an XML document they must be escaped using normal XML

escape rules. When escaped, the bottom line of the order of precedence will be “&lt;=, &lt;, &gt;=, &gt;”

Note that the IFX standard intentionally separates the operations of object (record) selection (Selection, below) and field selection (Light Object Field Select, below). Object selection is intended to be performed with conditional path statements within an Sel segment. Conditional path statements can also be included in the light object field select aggregate. In that case fields can be selectively included (i.e., include only the amount aggregates that are of interest) but the results will have no impact on the objects that are selected and returned. Servers should perform the object selection process first followed by the field process. Field selection should not be performed on any object that does not meet the criteria set for object selection.

---

### 6.11 — Record Selection (RecSelect)

Object selection is similar to object reference except that object selection selects zero or more objects. The result of a selection operation is a collection of objects rather than a single object. It is an indirect reference to a set of other objects. A server has a large amount of freedom as to what selection criteria it chooses to support. At a minimum a server should support a list of IFX object references as selection criteria. Support for lfxPath based selection criteria (i.e., RecSelect) is recommended but not required.

A selection operation creates a set of zero or more objects. Zero is not necessarily a failure.

The Light Object Selection criteria (below) allows for data to be selected within objects allowing the client to control serialization against the entire set of selected objects.

With the current representation repeating xxxRef and RecSelect structures can be in any order and imply OR logic between them. And logic, if required, must be encoded in a single RecSelect field to be effective.

The following is an example of the use of a record select. The two representations both implement OR logic and are equivalent. In this case, all CashWithdrawal, CreditCardAdvance and transactions with a debit amount of 100.00 or more are selected. This is probably not the inquiry that you intended because of the required OR logic.

```
Codeleft
  codeIndent1
    codeIndent2
      codeIndent3
        codeIndent4
< xxxInqRq >
  ....
  < RecSelect >
    /DebitRec/DebitInfo[DebitType=CashWithdrawal]
  | /DebitRec/DebitInfo[DebitType=CreditCardAdvance]
```

```

    < /RecSelect >
    < RecSelect >
      /DebitRec/DebitInfo/CompositeCurAmt[CompositeCurAmtType=Debit
& CurAmt > =100.00]/CurAmt
    < /RecSelect >
  < /xxxInqRq >

```

```

< xxxInqRq >
  ....
  < RecSelect >
    /DebitRec/DebitInfo[DebitType=CashWithdrawal]
| /DebitRec/DebitInfo[DebitType=CreditCardAdvance]
| /DebitRec/DebitInfo/CompositeCurAmt[CompositeCurAmtType=Debit &
CurAmt > =100.00]/CurAmt
  < /RecSelect >
< /xxxInqRq >

```

The following is an example of the use of AND logic in a record select. This must be done in lfxPath. In this case, all CashWithdrawal and CreditCardAdvance transactions with a debit (withdrawal) amount of 100.00 or more are selected. This is a more likely inquiry than the previous OR logic example.

```

< xxxInqRq >
  ...
  < RecSelect >
    (/DebitRec/DebitInfo[DebitType=CashWithdrawal]
| /DebitRec/DebitInfo[DebitType=CreditCardAdvance])
& /DebitRec/DebitInfo/CompositeCurAmt[CompositeCurAmtType=Debit &
CurAmt > =100.00]/CurAmt
  < /RecSelect >
< /xxxInqRq >

```

---

## 6.12 — Object Field Select (FieldSelect)

A field select segment is used to specify the fields that a client would like the server to return as part of the server response. If not present, the server will assume that the client wants all fields returned. This segment is only meaningful on requests where the server returns object data in the response. Note that this is a feature that servers are not required to support. If a server does not support field selection it will return the entire object in its response.

The result of a field select operation is a collection of fields from an object that the client wants to see. The server takes this list along with any required fields to create its field list for the resulting object(s).

Fields are selected using a list of lfxPath values each of which adds one or more fields to the resulting structure. Selecting a field adds the field to the structure, selecting an aggregate adds all relevant fields in the aggregate to the structure. Selecting a field multiple times (i.e., as a field and as part of an aggregate) has no effect, it does not add a second copy and is not considered to be an error. In addition to selected fields, relevant required

fields and aggregates will be included in the resulting structure. The final resulting response message will be a valid IFX message meeting all normal message edits.

The field selection criteria is placed in the context request header aggregate (ContextRqHdr) in the message header (MsgRqHdr). If the field selection criteria is not present, the server can control the response. A server will normally assume that complete (full) objects should be returned. If the client selects a Rec explicitly, it demands that the complete (full) object be returned. Note, however, the difference between selecting an aggregate (i.e., "/DebitRec/DebitInfo/CompositeCurAmt") and selecting all children under an aggregate (i.e., "/DebitRec/DebitInfo/CompositeCurAmt/\*"). In the first case the server may make reasonable decisions as to what portions of an aggregate or object to send based on business rules. In the second, the client is explicitly overriding those rules and requesting a complete object image.

### 6.13 — Context Request Header (ContextRqHdr)

Tag	Type	Usage	Description/Context notes
begin Aggregate			
FieldSelect	IfxPath	Optional Repeating	Field Select
ClientTerminalSeqNum	NC-36	Optional	Client Sequence Number
NetworkTrnData	Aggregate	Optional	Network Transaction Data
PointOfServiceData	Aggregate	Optional	Point of Service Data
EMVRqData	Aggregate	Optional	EMV Request Data
MsgAuthCode	Aggregate	Optional	Message Authentication Code
ClientDt	DateTime	Optional	Client DateTime
CustLangPref	NC-17	Optional	Customer Language Preference
ClearingLangCode	Aggregate	Optional	Clearing Language Code
ClientApp	Aggregate	Optional	Client Application
ProxyClient	Aggregate	Optional	Proxy Client
MsgGroupReference	C-36	Optional	Message Group Reference
end Aggregate			

The following is an example of the use of a field select aggregate. In this case, the transaction type (DebitType) the terminal and bank identifiers and all of the amount information will be displayed.

```
<ContextRqHdr>
...
  <FieldSelect>
    /DebitRec/DebitInfo/DebitType
  </FieldSelect>
  <FieldSelect>
    /DebitRec/DebitInfo/CompositeCurAmt
  </FieldSelect>
  <FieldSelect>
    /DebitRec/DebitInfo/NetworkTrnInfo/TerminalId
  </FieldSelect>
  <FieldSelect>
    /DebitRec/DebitInfo/NetworkTrnInfo/BankId
```

```
</FieldSelect>
</ContextRqHdr>
```

---

## 6.14 — Deserializing Object References

There is nothing in the definition of either the `lfxPath` data type or the field select function that prevents it from being used across object boundaries. In fact, the design of object references specifically envisioned that use case. As a general rule, selecting a field or aggregate within an imbedded object (a `Rec` within a `Ref`) forces that object to be serialized. If the client selects the `Rec` itself it is requesting the full object be serialized. If it selects one or more fields within the imbedded object it is selecting specific fields. All rules for selecting fields within an object also apply to selecting fields in imbedded objects. It should be noted, however, that it is possible for a server to support field selection in the requested object but not support it in imbedded objects.

The following fragment is an example of how this could be used. It is based on an hypothetical implementation of accounts that is useful as an illustration but probably not where accounts are headed in IFX 2. This example selects the account balance aggregate from either a deposit or card account, which ever is actually present. This specific example is a function that is regularly performed at ATMs today.

```
<ContextRqHdr>
...
  <FieldSelect>
    /DebitRec/DebitInfo
  [DepAcctRef]/DepAcctRef/DepAcctRec/DepAcctInfo/AcctBal
  </FieldSelect>
  <FieldSelect>
    /DebitRec/DebitInfo
  [CardAcctRef]/CardAcctRef/CardAcctRec/CardAcctInfo/AcctBal
  </FieldSelect>
...
</ContextRqHdr>
```

---

## 7 — IFX Object Implementation Description

IFX objects can be represented in three standard forms. These forms represent the entire set of object data relevant to the function being performed. These forms are designed around specific messages and provide the data required to perform the functions implied by those messages. Each of these forms can be limited to specific fields using the field selection feature described in the previous section. The three standard forms are:

<i>View</i>	<i>Name</i>	<i>Description</i>
Object	Object Rec (DebitRec)	A complete object view including all segments.
Status	Object StatusRec (DebitStatusRec)	The status of the object including the Id and Status segments
	Object AuthRec	The auth information about the object including the

Auth (DebitAuthRec)	Id and Auth segments.
---------------------	-----------------------

When constructed in serialized object format the object view (xxxRec) will look as follows:

## 7.1 — Linking Related, Independent Objects

There are many cases where objects of two (or more) different classes have specific relationship to each other. For example, a Party has a particular relationship to an Account - ownership, beneficiary, co-signer, etc. There are attributes of the relationship that are particular to the relationship rather than to either of the related objects such as the type of relationship, the effective dates of a relationship, etc. Therefore it's desirable to maintain a record of the relationship attributes independent of the objects being related. This leads to the conclusion that the relationship can be represented as an object in its own right.

For IFX version 2 relationship linking objects - hereafter called "Rel" Objects - are fundamentally no different than any other object. Therefore all of the normal object construction rules apply without exception. The primary benefit of this approach is that no new definitions, functions or behaviors are required; a linking object is no different than any other object.

In addition to information which qualifies, or is particular to the nature of the linkage, the Rel object's Info segment must contain references (xxxRef) to the specific objects being related. The info segment can also contain any other information which about the relationship deemed interesting.

IFX has chosen a particular naming convention to distinguish Relationship objects from other IFX objects. The convention is to name the object classes followed by "Rel". Therefore, the previous example would adopt the name PartyAcctRel. If more than 2 objects are being related, all of the class names would be part of the new object name - such as PartySvcAcctRel.

### 7.1.1 — PartyAcctRel examples

To complete the example, the tables below show how the PartyAcctRel object is constructed.

### 7.1.2 — Party Account Relationship (PartyAcctRelRec)

There is no difference in the record construction for Relationship objects.

Tag	Type	Usage	Description/Context notes
begin Aggregate			
SvcIdnt	Aggregate	Optional	Service Identifier
PartyAcctRelId	Identifier	Required	Party Account Relationship Identifier
PartyAcctRelInfo	Aggregate	Required	Party Account Relationship Information



			Aggregate
PartyAcctRelEnvr	Aggregate	Optional	Party Account Relationship Environment Aggregate
PartyAcctRelStatus	Aggregate	Required	Party Account Relationship Status Aggregate
end Aggregate			

### 7.1.3 — Party Account Relationship Information Aggregate (PartyAcctRelInfo)

The Info segment contains references to the specific objects as well as information about the relationship itself.

Tag	Type	Usage	Description/Context notes
begin Aggregate			
PartyRef	Aggregate	Required	Party Reference Aggregate
AcctRef	Aggregate	Required	Account Reference Aggregate
PartyAcctRelData	Aggregate	Required Repeating	Party Account Relationship Data
OwnerPercent	Decimal	Optional	Percentage of account ownership
OwnerInd	Boolean	Optional	Owner Indicator
Nickname	C-40	Optional	Nickname
end Aggregate			

### 7.1.4 — Party Account Relationship Keys Aggregate (PartyAcctRelKeys)

One distinguishing characteristic of relationship objects is how the XxxYyyRelKeys aggregate is constructed. Notice that the object has its own unique Id which is consistent with the IFX Object Framework and that it also has a block which effectively concatenates the keys of the objects being related.

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin Elements from BaseKeys			
end Elements from BaseKeys			
SvcIdent	Aggregate	Optional	Service Identifier
begin-xor		Required	
PartyAcctRelId	Identifier	Required	Party Account Relationship Identifier
begin-block		Required	
PartyKeys	Aggregate	Required	Party Keys Aggregate
AcctKeys	Aggregate	Required	Account Keys Aggregate
end-block			
end-xor			
end Aggregate			

### 7.1.5 — PartyAcctRel Object Methods

The PartyAcctRel object implements the same methods as other IFX Objects. The method names follow the standard pattern – e.g. PartyAcctRelAddRq, PartyAcctRelModRq, etc.

--	--

<i>Object</i>	<i>Methods</i>	
Add	Rq	Rs
Advise	Rq	Rs
Aud	Rq	Rs
Del	Rq	Rs
Inq	Rq	Rs
Mod	Rq	Rs
Rev	Rq	Rs
StatusInq	Rq	Rs
StatusMod	Rq	Rs
Sync	Rq	Rs

---

## 7.2 — Recurring Models

There are several use cases within the realm of financial transactions that include an activity or event which occurs repeatedly over time. The recurrence of the activity may have a pattern as to when and how often it takes place, based on the calendar which consists of the standard units of time, i.e. years, months, days, etc. Or an activity, while it does recur, may have no set pattern of recurrence, i.e. it may be triggered "on demand" by a user or process based on something other than a time schedule.

Within IFX this activity is modelled by the repeated creation of an object (i.e., Pmt, ChkOrder, etc.) that represents the activity or event. The definition of a recurring activity itself is represented by object (i.e., Recurring Payment, Recurring Transfer, and Recurring Check Order, etc.). This object consists of a base object info segment (the represented activity or event) and a scheduling model represented by the recurring model <RecurMode> aggregate. This aggregate has been defined to represent a time-based recurring pattern. The usage of recurring model is optional to allow for activities where there is no set pattern of recurrence.

---

### 7.2.1 — Recurring Model Aggregate RecurModel

This aggregate contains information about a recurrence pattern, which can be established for an event or activity that recurs in a specific pattern.

Tag	Type	Usage	Description/Context notes
begin Aggregate			
RecurRule	Aggregate	Optional Repeating	Defines a rule for events that recur in a specific defined pattern.
RecurException	Aggregate	Optional Repeating	Indicates an exception to the recurrence rule.
end Aggregate			

<RecurrenceRule> and <Exception> are the same aggregates that are contained within the <TimeFrame> aggregate. The base <TimeFrame> aggregate defines the event, similar to the Recurring Payment defining the payment activity. In other words, the other elements of the <TimeFrame>

aggregate are outside of the recurring pattern itself, which is why the entire <TimeFrame> aggregate does not belong in the other objects' Info aggregates.

## 7.2.2 — Recurrence Rule Aggregate RecurrenceRule

This aggregate is used to define a multiple instances of an event that recurs in a specific pattern.

Tag	Type	Usage	Description/Context notes
begin Aggregate			
RecurType	Closed Enum	Optional	RecurType Valid values are limited to: Daily, Monthly, Weekly, Yearly
RecurInterval	Long	Optional	Recurrence Interval
RecurInstance	Long	Optional	Recurrence Instance
DayOfWeek	Closed Enum	Optional	Day Of Week Valid values are limited to: Friday, Monday, Saturday, Sunday, Thursday, Tuesday, Wednesday
DayOfMonth	Closed Enum	Optional	Day Of Month Valid values are limited to: 1, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 2, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 3, 30, 31, 4, 5, 6, 7, 8, 9
Month	Long	Optional	Month
RecurStartDate	Date	Optional	Recurrence Start Date
begin-xor		Required	
Occurrences	Long	Required	Occurrences
RecurEndDate	Date	Required	Recurrence End Date
end-xor			
end Aggregate			

## 7.2.3 — Exception Aggregate RecurException

This aggregate is used to indicate deviations to an instance of a recurrence pattern, as when a particular instance (event) varies from the stated pattern, i.e. if the start date, end date, and/or duration are different, or if the specific occurrence of the event is not to occur. There is also a feature to specify a number of instances to skip, beginning with a specified date.

Tag	Type	Usage	Description/Context notes
begin Aggregate			
RecurExceptionType	Closed Enum	Required	Indicates which type of exception to a recurring event is defined Valid values are limited to: Delete, Skip, Update
SkipNextN	Long	Optional	A non-zero integer that indicates that the next <i>N</i> occurrences are to be skipped. Subject to server support. If = ?Skip? then should be provided.
StartDt	DateTime	Required	Specifies the start date or date/time of the instance of the timeframe that has

			<p>the exception.</p> <p>The date portion of must indicate the date of the specific occurrence that is being modified or deleted. The time portion may be different than the stated start time of the initial event or recurring instance in order to signify a change in the starting time.</p> <p>If = 'Skip' then the date portion of indicates the date of the first occurrence to be skipped.</p>
begin-xor		Optional	
EndDt	DateTime	Required	<p>Specifies the end date or date/time of the instance of the timeframe that has the exception.</p> <p>If = 'Update' then either the or the must be provided (Optional XOR).</p> <p>If the exception is a change in the end date/time, then this value indicates the modified end date/time.</p>
Duration	Aggregate	Required	<p>Specifies the duration of the instance of the timeframe that has the exception, in the unit of measure indicated.</p> <p>Examples: 2 Hours, 120 Minutes</p> <p>If the exception is a change in the duration, then this value indicates the modified duration.</p> <p>If = 0 and = 'Update', interpret as the instance is cancelled (i.e. zero duration = no event). Use of 'Delete' is preferred in this case as it is more obvious.</p> <p>If is 'Update' then either the or the must be provided (Optional XOR).</p>
end-xor			
end Aggregate			

## 7.2.4 — Recurring model usage in version 2

Recurring models are standard objects constructed using IFX version 2 object rules. They are named with "Recur" prefixing the object name that is being modelled (i.e., recurring "Pmt" would be "RecurPmt"). All standard object segments are relevant and present.

### 7.2.4.1 — RecurxxxRec

Tag	Type	Usage	Description/Context notes
begin Aggregate			
SvcIdent	Aggregate	Optional	Service Identifier
RecurxxxId	Identifier	Required	Recurring xxx Identifier
RecurxxxInfo	Aggregate	Required	Recurring xxx Information Aggregate
RecurxxxEnvr	Aggregate	Optional	Recurring xxx Environment Aggregate
RecurxxxStatus	Aggregate	Required	Recurring xxx Status Aggregate
end Aggregate			

### 7.2.4.2 — RecurxxxInfo

Tag	Type	Usage	Description/Context notes
begin Aggregate			
xxxInfo	Aggregate	Required	xxx Information Aggregate
RecurModel	Aggregate	Optional	Represents a time based recurring pattern.  An Optional usage of indicates that it is possible to have no <i>set pattern</i> of recurrence.
Nickname	C-40	Optional	Nickname
end Aggregate			

The RecurxxxInfo segment may contain additional information that is relevant to the event generation process. This information may include specialized options for generating data to be included in the xxxInfo segment. For example, a credit card payment model may allow the customer to select the minimum payment amount, a fixed amount or a percentage of the balance due.

---

### 7.2.5 — Linkage between an object and its model

When an object is generated from a recurring model there may be a need to investigate either all objects generated by the model, or the model that resulted in the object's creation. This is done by adding the model reference (keys) to the add messages that can result from recurring models and by adding the same model reference to the environment of the object definition itself. In the first case the object's audit method can be used to determine how the message was created. In the second case standard inquiry methods can be used to determine how one or more objects were created. This provides the ability to enquire on both messages and objects and allows the link to be investigated in either direction (i.e., objects created from a specific model or the model that was used to create a specific object).

---

### 7.2.6 — Sample recurring model usage

Starting from a model:

```
<RecurXferRec>
  <RecurXferId>RECXFER01</RecurXferId>
  <RecurXferInfo>
    <XferInfo>
      <DepAcctRefFrom>...</DepAcctRefFrom>
      <LoanAcctRefFrom>...</LoanAcctRefFrom>
      <CurAmt><Amt>100.00</Amt></CurAmt>
    </XferInfo>
  <RecurModel>
    <RecurrenceRule>
      <RecurrenceType>Monthly</RecurrenceType>
      <DayOfMonth>4</DayOfMonth>
    </RecurrenceRule>
```

```

    </RecurModel>
    <Nickname>My Monthly Transfer</Nickname>
  </RecurXferInfo>
  ...
</RecurXferRec>

```

An object add message gets generated:

```

<XferAddRq>
  <RqUID>...</RqUID>
  <MsgRqHdr>...</MsgRqHdr>
  <XferInfo>
    <DepAcctRefFrom>...</DepAcctRefFrom>
    <LoanAcctRefFrom>...</LoanAcctRefFrom>
    <CurAmt><Amt>100.00</Amt></CurAmt>
  </XferInfo>
  <RecurXferKeys>
    <RecurXferId>RECXFER01</RecurXferId>
  </RecurXferKeys>
</XferAddRq>

```

Resulting in the creation of an object:

```

<XferRec>
  <XferId>...</XferId>
  <XferInfo>
    <DepAcctRefFrom>...</DepAcctRefFrom>
    <LoanAcctRefFrom>...</LoanAcctRefFrom>
    <CurAmt><Amt>100.00</Amt></CurAmt>
    <DueDt> *scheduled due date from model* </DueDt>
  </XferInfo>
  <XferEnvr>
    ...
    <RecurXferId>RECXFER01</RecurXferId>
  </XferEnvr>
  <XferStatus>...</XferStatus>
</XferRec>

```

### 7.3 — Document Control

Document control is a new feature of IFX 2. It is an extension to record control (next section) that adds the ability select pages of a document from a high level description of the document. It's primary use will be in the processing of commercial documents that are many pages long. Portions of a document can be retrieved to get a high level view of the document's contents (i.e., table of contents, relationship summary, etc.) or to investigate exceptions (i.e., out of balance transactions).

Tag	Type	Usage	Description/Context notes
begin Aggregate			
DeliveryInstruction	Aggregate	Optional	Delivery Instruction
PageCountLimit	Aggregate	Optional	PageCount Limit Aggregate
end Aggregate			

---

### 7.3.1 — DeliveryInstruction

DeliveryInstruction is used to identify delivery instructions of physical items or to direct the response of an InqRq to a specified media.

---

### 7.3.2 — PageCount Limit Aggregate (PageCountLimit)

Tag	Type	Usage	Description/Context notes
begin Aggregate			
PageType	Open Enum	Optional	Page Type Valid values include: Logical, Physical, ServerDiscretion
CollatingSequence	Open Enum	Optional	Collating Sequence Valid values include: Even, Normal, Odd, Reverse
PageNumRange	Aggregate	Optional Repeating	Page Number Range
end Aggregate			

---

### 7.3.3 — Page Number Range (PageNumRange)

Used as selection criteria in inquiry messages to limit the results based on selected page numbers and page number ranges.

The <PageNumRange> aggregate contains two optional fields: <LowPageNum> and <HighPageNum>. The following rules are established for these fields:

- If <LowPageNum> but not <HighPageNum> is supplied, then the response will include all pages that are numbered greater than or equal to <LowPageNum>.
- If <HighPageNum> is supplied but not <LowPageNum>, then the response will include all pages that are numbered smaller than or equal to the <HighPageNum>.
- If both elements are supplied, then the response will include all pages that are numbered between or equal to the two page numbers supplied.
- If a client wishes to request a specific page, then both <LowPageNum> and <HighPageNum> should be supplied and set to the same value.
- If pages are renumbered within a document only the first range that matches the page number range will be included. In this case the low and high section names should be used to request a specific range. Usually only the low section name is required to uniquely identify a page range.
- If only the LowSectionName is provided then the entire section is returned. This can be used by a server to support selecting individual accounts from a multiple account statement.

Tag	Type	Usage	Description/Context notes
begin Aggregate			
StartSectName	C-40	Optional	Start Section Name

StartPageNum	Long	Optional	Start Page Number
EndSectName	C-40	Optional	End Section Name
EndPageNum	Long	Optional	End Page Number
end Aggregate			

The following fragment is an example of how this could be used. This example requests the first 10 pages of a document transmitted electronically (i.e., by email).

```
<DocCtrlIn>
  <DeliveryMethod>Electronic</DeliveryMethod>
  <PageNumRange>
    <EndPageNum>10</EndPageNum>
  </PageNumRange>
  ...
</DocCtrlIn>
```

---

### 7.3.4 — Document Control Output (DocCtrlOut)

Tag	Type	Usage	Description/Context notes
begin Aggregate			
SentPageCount	Long	Optional	Sent Page Count
end Aggregate			

## 7.4 — Record Control

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### 7.4.1 — Records Control Input (RecCtrlIn)

Tag	Type	Usage	Description/Context notes
begin Aggregate			
RecCountLimit	Aggregate	Optional	Record Count Limit
Cursor	Aggregate	Optional	Cursor Handle
Token	NC-1024	Optional	Token
end Aggregate			

---

#### 7.4.1.1 — Record Count Limit (RecCountLimit)

Record Count Limit Aggregate. This aggregate is used as selection criteria in the inquiry request messages to specify the number of desired records and the sequence in which the records are read and returned. It allows the client to specify different options concerning how the search is performed and how the results are returned. For example, it allows a client to request the most recent 10 transactions (independent on data in individual transactions) or to limit the number of transactions returned on individual requests.



If this aggregate is not present all records, based on the specified selection criteria, are returned from the server in the most logical sort sequence (i.e., oldest first, colating sequence, etc.).

Tag	Type	Usage	Description/Context notes
begin Aggregate			
LimitPosition	Open Enum	Optional	Limit Position Valid values include: Bottom, Top
MaxRecLimit	Long	Optional	Maximum Records Limit
CurRecLimit	Long	Optional	Current Record Limit
end Aggregate			

The following fragment is an example of how this could be used. This example requests the most recent records (i.e., transactions) 10 at a time from an unbounded result set. This type of request can be used to allow a customer to see a screen worth of transactions with a "More" button to request the next screen.

```

<RecCtrlIn>
  <RecCountLimit>
    <LimitPosition>Bottom</LimitPosition>
    <CurRecLimit>10</CurRecLimit>
  </RecCountLimit>
  ...
</RecCtrlIn>

```

---

#### 7.4.2 — Records Control Output (RecCtrlOut)

Tag	Type	Usage	Description/Context notes
begin Aggregate			
SentRecCount	Long	Required	Sent Record Count
MatchedRecCount	Long	Optional	Matched Record Count
RemainRecCount	Long	Optional	Remaining Record Count
Cursor	Aggregate	Optional	Cursor Handle
Token	NC-1024	Optional	Token
end Aggregate			

The usage of MatchedRec was changed from required to optional. Although a nice feature, many database systems cannot produce this value. The common method of putting SentRec + 1 in this field works but is very misleading. Also, the RemainingRec field was added. This is often what the client really wants rather than MatchedRecs which should remain constant through all messages in a series.

A server can return a cursor, a token, neither or both depending on its support and the business requirements of the request. A cursor contains binary data that tends to be specific to a specific system request. Normally it refers to a specific database result set that contains the relevant database records. It tends to be valid for a short time (often 1 hour) before the server returns the required resources to the operating system and frees the result set. When available and valid, a cursor provides an efficient means of continuing an inquiry request. Tokens, on the other hand, are

text and contain data sufficient to rebuild a result set. It does not depend on the result set still being present and valid. Tokens are not as efficient to work with but do have an extended lifetime, often as long as the underlying objects it refers too. A client should never store a cursor for use after the next message it sends to the server. A client can store a token for future use although its lifespan is not guaranteed.

When processing a continuing request the following error recover strategy is recommended.

1. If both a token and a cursor are available, send both. The server will decide which to use.
2. If a cursor is rejected as invalid and a token is available, retry the request with only the token. Most servers will do this automatically if both are sent but some may not.
3. If both the cursor and the token fail, either fail or restart the request depending on business requirements. If this is a periodic synchronization request and the token fails it is likely that all client information about an object is obsolete and needs to be completely refreshed.

One issue that has not been addressed is the concept of recursive record control. There are a few cases where a record is really an array of subsidiary records (i.e., statements, bills, etc.). Record control at the top level does not dictate the maximum number of records that can be sent in a message, only the maximum number of top level items that can be sent. Ideally, record control should affect the number of records sent at all levels, not just the top level. This is an issue that will need to be address but will probably not make the initial version 2 cutoff.

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## 7.5 — Collections of Objects and Messages

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### 7.5.1 — Object Lists

Currently inquiry response messages (InqRs, StatusInqRs) directly include a repeating list of objects. There is no intermediate collection aggregate. Since the object list in this context is simple there is no particular reason to change this.

---

### 7.5.2 — Object Response Message Lists (xxxRsMsg)

The object response message list is a list of messages that can affect the contents of an object at the server. These are response messages that the server produced that reflect the updates that it made to the relevant object. The list is produced as a repeating instance of response messages. The response message aggregate is used in the audit and sync messages to communicate object update information.

Tag	Type	Usage	Description/Context notes
begin Aggregate			
MsgRecDt	Timestamp	Optional	Audit Record Creation Date
begin-xor		Required	
xxxAddRs	Aggregate	Required	Object Add Response
xxxModRs	Aggregate	Required	Object Modify Response
xxxDelRs	Aggregate	Required	Object Delete Response
xxxCanRs	Aggregate	Required	(Object Pattern) Cancel Response
xxxRevRs	Aggregate	Required	Object Reversal Response
xxxInqRs	Aggregate	Required	Object Inquiry Response
xxxAdviseRs	Aggregate	Required	Object Advise Response
xxxStatusModRs	Aggregate	Required	Object Status Modify Response
xxxStatusInqRs	Aggregate	Required	Object Status Inquiry Response
xxxAuthModRs	Aggregate	Required	Object Authentication Modify Response Message
xxxAuthInqRs	Aggregate	Required	Object Authentication Inquiry Response
end-xor			
end Aggregate			

### 7.5.3 — Object Request Message Lists (xxxRqMsg)

The object request message list is a list of messages that can affect the contents of an object at the server. These are request messages that may or may not have been processed by the server. Currently only single message entries are required. The request message aggregate is used in reversal messages to communicate to the server that the requested action is no longer relevant and should be ignored.

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
xxxAddRq	Aggregate	Required	Object Add Message
xxxModRq	Aggregate	Required	Object Modify Request
xxxCanRq	Aggregate	Required	Object Cancel Request
xxxDelRq	Aggregate	Required	Object Delete Request
xxxInqRq	Aggregate	Required	Object Inquiry Request
xxxAdviseRq	Aggregate	Required	Object Advise Message
xxxAudRq	Aggregate	Required	Object Audit Request
xxxSyncRq	Aggregate	Required	Object Sync Request
xxxStatusModRq	Aggregate	Required	Object Status Modify Request
xxxStatusInqRq	Aggregate	Required	Object Status Inquiry Request
xxxAuthModRq	Aggregate	Required	Object Authentication Modify Request Message
xxxAuthInqRq	Aggregate	Required	Object Authentication Inquiry Request
end-xor			
end Aggregate			

## 8 — IFX Message Changes

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## 8.1 — General message changes

General echoing of message data will not be supported in IFX 2. Servers are still required to echo the RqUID. If a message is received in which the RqUID cannot be determined it should not be considered to be an IFX message and an IFX response should not be generated.

Many fields are being moved to MsgRqHdr (request) and MsgRsHdr (response). Fields moved include AsynchRqUID, CustId (restructured and renamed) and service profile Ids (CSPRefIdend, SPRefIdent). The service profile Ids need to be reviewed given changes to the service architecture.

---

## 8.2 — Inquiry message changes

Create the appropriate Sel aggregates for the underlying object. All objects should have a Sel aggregate. It is quite simple containing a list of the object's Id and a list of Select fields.

Remove selection criteria and replace with the (Object)Sel aggregate.

---

## 8.3 — Basic Request (Rq) Pattern

- RqUID
- MsgRqHdr
- Request Payload

---

## 8.4 — Fatal Response (Rs) Pattern

- Status
- RqUID (echoed, must match request)

---

## 8.5 — Basic Response (Rs) Pattern

- Status (if status not zero)
- RqUID (echoed, must match request)
- MsgRsHdr
- Response Payload

---

## 8.6 — Message Fault (Error) Handling

- Success: Status is not normally returned
- Error (Fatal): Status only returned
- Other Faults: Status and response payload returned

## IFX Object - Acct

An account is a product, serviced by a financial institution (FI), that carries a balance (credit or debit) in a particular currency.

An account object includes the record of the current balance at a given time and date. Balances are updated at various times depending on specific needs to reflect an accurate record of the impact accounts transactions have on the account.

There are many types of accounts supported by the specification as indicated by the <AcctType>. Generally accounts fall into one of 2 classifications – Deposit Acct or Credit Acct. Data that is generally applicable to any class of account (such as balance) is found directly in the <AcctInfo> aggregate whereas data elements particular to an account classification are segregated into optional data aggregates – such as <DepAcctData >or <CreditAcctData > .

### Account Identification

All IFX objects are identified by an object ID. In addition to that, there are many standard identification schemes used for accounts in the financial services industry such as IBAN, BBAN, UPIC, etc. These are recognized in the BMS as part of the <AcctKeys> in addition to the IFX standard AcctId.

### Account Relationships

Accounts have significant relationships to other IFX objects – especially Party and Card.

Individual parties have particular relationships to accounts, such as an owner or beneficiary. Accounts can have one “owner” or many, depending on particular circumstances and there are no limits on the types of relationships between parties and accounts. (See <PartyAcctRel.>).

### Object Elements and Structures

[AcctEnvr](#)

[AcctId](#)

[AcctInfo](#)

[AcctRec](#)

[AcctRef](#)

[AcctRsMsg](#)

[AcctRqMsg](#)

[AcctSel](#)

[AcctStatus](#)

[AcctStatusRec](#)

[FromAcctRef](#)

[ToAcctRef](#)  
[SubAcctRef](#)  
[IntDistAcctRef](#)  
[SecuredAcctRef](#)  
[CreditRtnAcctRef](#)  
[RelAcctRef](#)

#### Object Methods

Add  
Advise  
Aud  
Del  
Inq  
Mod  
Rev  
StatusInq  
StatusMod  
Sync

---

## **IFX Object - AcctAcctRel**

This object represents any type of Account to Account relationship. It may define relationships to other accounts for fulfilling service arrangements such as cash management or overdraft protection.

#### Object Elements and Structures

[AcctAcctRelEnvr](#)  
[AcctAcctRelId](#)  
[AcctAcctRelInfo](#)  
[AcctAcctRelRec](#)  
[AcctAcctRelRef](#)  
[AcctAcctRelSel](#)  
[AcctAcctRelStatus](#)  
[AcctAcctRelStatusRec](#)

#### Object Methods

Add  
Del  
Inq  
Mod  
StatusInq  
StatusMod

---

## **IFX Object - AcctHold**

The Account Hold object will support the function of placing a hold on an account for a specific amount so as to prevent the hold amount from being withdrawn from the account. The hold may be placed on an account for a number or reasons including but not limited to a court order, collateral for loan, or a simple check hold.

#### Object Elements and Structures

[AcctHoldEnvr](#)

[AcctHoldId](#)

[AcctHoldInfo](#)

[AcctHoldRec](#)

[AcctHoldRef](#)

[AcctHoldSel](#)

[AcctHoldStatus](#)

[AcctHoldStatusRec](#)

#### Object Methods

Add

Del

Inq

Mod

StatusInq

StatusMod

---

## IFX Object - AcctPayOff

The account payoff object represents a request for an account's total balance as of an effective date with a breakdown of the account balances.

#### Object Elements and Structures

[AcctPayOffEnvr](#)

[AcctPayOffId](#)

[AcctPayOffInfo](#)

[AcctPayOffRec](#)

[AcctPayOffRef](#)

[AcctPayOffSel](#)

[AcctPayOffStatus](#)

[AcctPayOffStatusRec](#)

#### Object Methods

Add

Inq

StatusMod

---

## IFX Object - AcctStmt

The Account Statement object supports inquiry functions for an account statement. An inquiry against the Account Statement object may return transactions, an image, or, a URL for a specific statement.

### Object Elements and Structures

[AcctStmtEnvr](#)

[AcctStmtId](#)

[AcctStmtInfo](#)

[AcctStmtRec](#)

[AcctStmtRef](#)

[AcctStmtRqMsg](#)

[AcctStmtSel](#)

[AcctStmtStatus](#)

[AcctStmtStatusRec](#)

### Object Methods

Advise

Inq

Rev

StatusInq

StatusMod

---

## IFX Object - AcctTrn

The AcctTrn object supports the inquiry of transaction data for all financial transactions of an account.

### Object Elements and Structures

[AcctTrnEnvr](#)

[AcctTrnId](#)

[AcctTrnInfo](#)

[AcctTrnRec](#)

[AcctTrnRef](#)

[AcctTrnRqMsg](#)

[AcctTrnSel](#)

[AcctTrnStatus](#)

[AcctTrnStatusRec](#)

### Object Methods

Advise

Inq

Rev



---

## IFX Object - AcctTrnImg

This object represents a transaction executed against an account with additional filter criteria to identify particular transactions. The object is used to retrieve images associated with transactions (e.g. checks, deposit slips, etc.) The Account Transaction Image object is only used for an inquiry request message.

### Object Elements and Structures

[AcctTrnImgEnvr](#)

[AcctTrnImgId](#)

[AcctTrnImgInfo](#)

[AcctTrnImgRec](#)

[AcctTrnImgRef](#)

[AcctTrnImgRqMsg](#)

[AcctTrnImgSel](#)

[AcctTrnImgStatus](#)

[AcctTrnImgStatusRec](#)

### Object Methods

Add

Del

Inq

Rev

---

## IFX Object - Alert

The alert object supports the definition of notifications that a party would like to receive when an account condition exists, an event occurs or an action is taken on an account, party, card or payee.

### Object Elements and Structures

[AlertEnvr](#)

[AlertId](#)

[AlertInfo](#)

[AlertRec](#)

[AlertRef](#)

[AlertSel](#)

[AlertStatus](#)

[AlertStatusRec](#)

### Object Methods

Add

Del  
Inq  
Mod  
StatusInq  
StatusMod

---

## IFX Object - Ath

The Authorization object represents an authorization decision made by the issuing entity of the account to approve, decline, or refer an authorization initiated from a merchant. The object includes the account number, date, amount, and authorization type as the input for the authorization request and the authorization code and the duration or expiration date of the authorization as the output of the request. If the authorization was processed by an entity other than the issuer due to the issuer being unavailable, the object will include the stand-in indicator and stand-in reason.

For a complete discussion of Credits, Debits and Authorizations refer to [Debit and Credit Objects in IFX](#).

### Object Elements and Structures

[AthEnvr](#)

[AthId](#)

[AthInfo](#)

[AthRec](#)

[AthRef](#)

[AthRsMsg](#)

[AthRqMsg](#)

[AthSel](#)

[AthStatus](#)

[AthStatusRec](#)

### Object Methods

Add

Advise

Aud

Can

Inq

Mod

Rev

StatusInq

StatusMod

Sync

---

## IFX Object - Bill

The Bill object and its associated messages provide the ability to deliver bill-related information, including bill summary information about a single bill, a billing statement, a notification (textual information sent from the biller to communicate information about the bill presentment service), or an invoice, depending on the value in the <BillType> element.

Bill Summary is information from a biller that is essential for a customer to understand what is owed, which may include, but is not limited to, Amount Owed, Date Due, Biller, and Customer's Account Number with the Biller. The Bill Summary may also include pointers to more information; e.g., a set of URLs that may be used to access bill detail and other information.

The actual elements used are likely to vary depending on the Bill Type. For example, with <BillType> Notice, the biller may send <Memo> data but none of the other optional elements.

A Biller may use the <Memo> element within the Bill Summary to send human-readable text to the customer, regardless of bill type. This may include, for example, special instructions for accessing information within the bill detail when sent with a bill, or regulatory or other announcements when sent as part of a bill or statement or alone as part of a notice.

### Object Elements and Structures

[BillEnvr](#)

[BillId](#)

[BillInfo](#)

[BillRec](#)

[BillRef](#)

[BillRqMsg](#)

[BillSel](#)

[BillStatus](#)

[BillStatusRec](#)

### Object Methods

Inq

Rev

StatusMod

---

## IFX Object - Biller

### Object Elements and Structures

[BillerEnvr](#)

[BillerId](#)

[BillerInfo](#)

[BillerRec](#)  
[BillerRef](#)  
[BillerRqMsg](#)  
[BillerSel](#)  
[BillerStatus](#)  
[BillerStatusRec](#)

#### Object Methods

Inq  
Rev

---

## IFX Object - Card

The Card Object supports the services related to Issuing, Management, and Servicing of Credit, Debit, Prepaid and Private Label cards.

#### Object Elements and Structures

[CardAuth](#)  
[CardAuthRec](#)  
[CardEnvr](#)  
[CardId](#)  
[CardInfo](#)  
[CardRec](#)  
[CardRef](#)  
[CardRsMsg](#)  
[CardRqMsg](#)  
[CardSel](#)  
[CardStatus](#)  
[CardStatusRec](#)

#### Object Methods

Add  
Advise  
Aud  
AuthInq  
AuthMod  
Del  
Inq  
Mod  
Rev  
StatusInq  
StatusMod  
Sync

---

## IFX Object - CardAcctRel

This object represents any type of CardAcctRel. Institutions can use this object and its related messages to add, modify, and inquire on the CardAcctRel.

### Object Elements and Structures

[CardAcctRelEnvr](#)

[CardAcctRelId](#)

[CardAcctRelInfo](#)

[CardAcctRelRec](#)

[CardAcctRelRef](#)

[CardAcctRelRsMsg](#)

[CardAcctRelRqMsg](#)

[CardAcctRelSel](#)

[CardAcctRelStatus](#)

[CardAcctRelStatusRec](#)

### Object Methods

Add

Advise

Aud

Del

Inq

Mod

Rev

StatusInq

StatusMod

Sync

---

## IFX Object - CardOrder

This object represents an order for a card of any type. This object can be used to add new orders, track and update existing orders, and inquire on card order history. The messages associated with this object can be use to send orders to the card issuer/embosser, a customer, prospect, or representative of customer or prospect of a financial institution.

### Object Elements and Structures

[CardOrderEnvr](#)

[CardOrderId](#)

[CardOrderInfo](#)

[CardOrderRec](#)

[CardOrderRef](#)

[CardOrderRsMsg](#)  
[CardOrderRqMsg](#)  
[CardOrderSel](#)  
[CardOrderStatus](#)  
[CardOrderStatusRec](#)

#### Object Methods

Add  
Advise  
Aud  
Can  
Inq  
Mod  
Rev  
StatusInq  
StatusMod  
Sync

---

## IFX Object - CardUpdate

This object enables Host systems to update a card being used at the ATM/POS terminal. Derived examples of this object are the MagCardUpdate and the ICCUpdate.

#### Object Elements and Structures

[CardUpdateEnvr](#)  
[CardUpdateId](#)  
[CardUpdateInfo](#)  
[CardUpdateRec](#)  
[CardUpdateRef](#)  
[CardUpdateSel](#)  
[CardUpdateStatus](#)  
[CardUpdateStatusRec](#)

#### Object Methods

StatusMod

---

## IFX Object - ChkAccept

The client may send a check to a financial institution for collection using the check accept add message to verify the check is good. If check authorization is not going to be performed then check (s) can be sent on the other messages that support checks such as the Credit messages.

Typically if the status code indicates an error then the check is returned to

the customer otherwise the check is retained.

These messages support either client or server determination of what level of truncation and guarantee the merchant or check acceptor requires.

## Object Elements and Structures

[ChkAcceptEnvr](#)

[ChkAcceptId](#)

[ChkAcceptInfo](#)

[ChkAcceptRec](#)

[ChkAcceptRef](#)

[ChkAcceptRsMsg](#)

[ChkAcceptRqMsg](#)

[ChkAcceptSel](#)

[ChkAcceptStatus](#)

[ChkAcceptStatusRec](#)

## Object Methods

Add

Aud

Can

Inq

Mod

Rev

StatusMod

Sync

---

## IFX Object - ChkIssue

The Check Issue object represents an issued check.

A commercial customer originates a check issue add message to provide Positive Pay information to a financial institution. This message is generated when a check is printed. The message instructs the financial institution to honor the check if the information on the presented check matches the information in the <ChkIssueInfo> aggregate. If the information does not match, the financial institution should modify status to 'Rejected' and, if supported by the client, generate a <ChkIssueAdviseRq> to the commercial customer notifying them that the check was not honored. The customer then includes a ChkIssueStatusRec in the AdviseRs with the ChkIssueStatusCode set to 'Pay' or 'NoPay'.

If the commercial customer does not accept AdviseRqs, there are alternative methods for discovering the status of ChkIssue objects. The commercial customer can send ChkIssueInqRq or ChkIssueSyncRq to get the current state of any or all such objects.

If the commercial customer wishes the financial institution to pay the check

anyway, the commercial customer sends a <ChkIssueStatusModRq> with a <ChkIssueStatusCode> of 'Pay'. If a check is rejected, the commercial customer is not required to modify the ChkIssueStatusCode (which the FI set to 'Rejected'), but may choose to set the code to NoPay.

#### Object Elements and Structures

[ChkIssueEnvr](#)  
[ChkIssueId](#)  
[ChkIssueInfo](#)  
[ChkIssueRec](#)  
[ChkIssueRef](#)  
[ChkIssueRsMsg](#)  
[ChkIssueSel](#)  
[ChkIssueStatus](#)  
[ChkIssueStatusRec](#)

#### Object Methods

Add  
Advise  
Aud  
Del  
Inq  
Mod  
StatusMod  
Sync

---

## IFX Object - ChkOrd

#### Object Elements and Structures

[ChkOrdEnvr](#)  
[ChkOrdId](#)  
[ChkOrdInfo](#)  
[ChkOrdRec](#)  
[ChkOrdRef](#)  
[ChkOrdRsMsg](#)  
[ChkOrdRqMsg](#)  
[ChkOrdSel](#)  
[ChkOrdStatus](#)  
[ChkOrdStatusRec](#)

#### Object Methods

Add  
Advise



Aud  
Del  
Inq  
Mod  
Rev  
Sync

---

## IFX Object - Chksum

The Checksum object provides a means to verify the completeness and accuracy of the messages within an IFX document. The Checksum Add Request is sent in the same document together with the messages to be verified. Example: If used to provide a control total of the sum of payments for the included Payment Add Requests, the <MsgType> would be 'PmtAddRq', the <ChecksumType> would be 'Sum', the <ChecksumElement> would be "/PmtInfo/CurAmt" and <ChecksumValue> would contain the sum total of all of the <PmtInfo>.<CurAmt> occurrences in the document.

### Object Elements and Structures

[ChksumEnvr](#)

[ChksumId](#)

[ChksumInfo](#)

[ChksumRec](#)

[ChksumRef](#)

[ChksumRsMsg](#)

[ChksumSel](#)

[ChksumStatus](#)

[ChksumStatusRec](#)

### Object Methods

Add

Advise

Aud

Del

Inq

Mod

StatusMod

Sync

---

## IFX Object - CompRemitStmnt

### Object Elements and Structures

[CompRemitStmntEnvr](#)

[CompRemitStmtd](#)  
[CompRemitStmtdInfo](#)  
[CompRemitStmtdRec](#)  
[CompRemitStmtdRef](#)  
[CompRemitStmtdRsMsg](#)  
[CompRemitStmtdSel](#)  
[CompRemitStmtdStatus](#)  
[CompRemitStmtdStatusRec](#)

#### Object Methods

Add  
Aud  
Inq  
Sync

---

## IFX Object - Credit

The Credit object represents a transaction that performs a credit of money (i.e. adds) to an account for cash, check or envelope deposits, merchandise returns or check payments. If a prior Credit Authorization was performed, the Credit object contains a reference to that authorization.

For a complete discussion of Credits, Debits and Authorizations refer to [Debit and Credit Objects in IFX](#).

#### Object Elements and Structures

[CreditEnvr](#)  
[CreditId](#)  
[CreditInfo](#)  
[CreditRec](#)  
[CreditRef](#)  
[CreditRsMsg](#)  
[CreditRqMsg](#)  
[CreditSel](#)  
[CreditStatus](#)  
[CreditStatusRec](#)

#### Object Methods

Add  
Advise  
Aud  
Can  
Inq  
Mod  
Rev

StatusMod  
Sync

---

## IFX Object - CustPayee

Each customer of a Payment Service provider maintains a list of payees on the Pay provider's server. This list contains payees that the customer has added, either explicitly using the Customer Payee Add message <CustPayeeAddRq> or implicitly using the Payment Add <PmtAddRq> or Recurring Payment Model Add <RecPmtAddRq> messages (which allow a payee to be added along with a payment). In any case, the customer's Payee list may contain any or all of the defined types of payees and only contains payees that the customer has added.

Each payee on the customer's payee list is assigned a unique identifier <CustPayeeId> that is used for unambiguous communications between the client and server. The <CustPayeeId> is unique only for that particular customer; another customer may use the same <CustPayeeId> value to refer to a different payee.

Once a payee appears on the customer's payee list, the client may use the Customer Payee Modify <CustPayeeModRq> and Customer Payee Delete <CustPayeeDelRq> messages to keep the payee information up-to-date or to remove the payee from the customer's payee list.

A client may request a current view of the customer's payee list at any time by using the Customer Payee Inquiry <CustPayeeInqRq> message. Clients that keep a local copy of a customer's payee list may use this message to refresh their copy of the list.

### Object Elements and Structures

[CustPayeeEnvr](#)  
[CustPayeeId](#)  
[CustPayeeInfo](#)  
[CustPayeeRec](#)  
[CustPayeeRef](#)  
[CustPayeeRsMsg](#)  
[CustPayeeSel](#)  
[CustPayeeStatus](#)  
[CustPayeeStatusRec](#)

### Object Methods

Add  
Aud  
Del  
Inq  
Mod  
Sync

---

## IFX Object - Debit

A debit can either be performed by itself or require a prior authorization using the object.

For a complete discussion of Credits, Debits and Authorizations refer to [Debit and Credit Objects in IFX](#).

### Object Elements and Structures

[DebitEnvr](#)

[DebitId](#)

[DebitInfo](#)

[DebitRec](#)

[DebitRef](#)

[DebitRsMsg](#)

[DebitRqMsg](#)

[DebitSel](#)

[DebitStatus](#)

[DebitStatusRec](#)

### Object Methods

Add

Advise

Aud

Can

Inq

Mod

Rev

StatusMod

Sync

---

## IFX Object - DepBkOrd

### Object Elements and Structures

[DepBkOrdEnvr](#)

[DepBkOrdId](#)

[DepBkOrdInfo](#)

[DepBkOrdRec](#)

[DepBkOrdRef](#)

[DepBkOrdSel](#)

[DepBkOrdStatus](#)

[DepBkOrdStatusRec](#)

## Object Methods

Add

Advise

Del

Inq

Mod

---

## IFX Object - Dev

### Object Elements and Structures

[DevEnvr](#)

[DevId](#)

[DevInfo](#)

[DevRec](#)

[DevRef](#)

[DevSel](#)

[DevStatus](#)

[DevStatusRec](#)

### Object Methods

Advise

Inq

---

## IFX Object - Disc

Services may have terms and conditions associated with them. These terms and conditions may be a combination of fees, terms mandated by statute, and terms required by the SP. Banking regulations and contract law may restrict the acceptable means of notification; e.g., US Mail to the address of record in the US.

### Object Elements and Structures

[DiscEnvr](#)

[DiscId](#)

[DiscInfo](#)

[DiscRec](#)

[DiscRef](#)

[DiscSel](#)

[DiscStatus](#)

[DiscStatusRec](#)

### Object Methods

Inq

---

## IFX Object - Dispute

The Dispute object is used to record and track the dispute of an account transaction. A dispute may require documentation from the merchant to verify the transaction. The dispute case can be resolved in favor of the merchant so that the transaction remains on the account, in favor of the party and the transaction is charged back to the merchant, or the financial institution may decide to write off the dispute amount. The account can have credit, debit, or fee transactions posted to the account during the dispute process.

### Object Elements and Structures

[DisputeEnvr](#)

[DisputeId](#)

[DisputeInfo](#)

[DisputeRec](#)

[DisputeRef](#)

[DisputeSel](#)

[DisputeStatus](#)

[DisputeStatusRec](#)

### Object Methods

Add

Del

Inq

Mod

StatusInq

StatusMod

---

## IFX Object - ForExDeal

This object serves two workflows related to booking a contract:

1) Book a contract using the FX Rate Quote returned in a Foreign Exchange Rate Quote response (<forExQuoteAddRs>).

2) Book a contract without negotiating a FX Rate Quote. This is known as a "one-step" deal., In a one-step deal all quote information is provided in the <ForExDealAddRq> message and the FI will process the quote request and immediately return a deal contract number.

### Object Elements and Structures

[ForExDealEnvr](#)

[ForExDealId](#)

[ForExDealInfo](#)

[ForExDealRec](#)  
[ForExDealRef](#)  
[ForExDealSel](#)  
[ForExDealStatus](#)  
[ForExDealStatusRec](#)  
[RelatedForExDealRef](#)

#### Object Methods

Add  
Advise  
Can  
Inq  
Mod

---

## IFX Object - ForExQuote

A client may request an FX Rate Quote that can, at the request of the client, become a contracted FX deal. The Financial Institution (FI) may quote a real-time FX market rate or may provide a daily indicative rate. The FI can control the window of time by which the client must accept the rate (often referred to as the “time to live”, or quote expiration); which also indicates the timeframe that the FI must honor the quoted rate. To facilitate this quote process the FI returns a response which includes a commitment (Rate Quote) identifier, and other detailed information about the quote.

Complex FX quote strategies are also supported with the FX Quote Add message. For instance, rates for an FX swap are requested by including two instances of the Foreign Exchange Rate Quote Add request within a single Foreign Exchange Rate Quote Operation request, one for the near leg and one for the far leg. The FI is able to review both legs of the swap at once and provide quotes for each back to the client. The FI will provide two corresponding instances of Foreign Exchange Quote Add response within a single Foreign Exchange Quote Add Operation response in the response message. The client can then evaluate the quote for each leg.

Multiple delivery options are also accommodated by the enhanced message set, including draft, EFT (electronic funds transfer), account, and bank notes.

#### Object Elements and Structures

[ForExQuoteEnvr](#)  
[ForExQuoteId](#)  
[ForExQuoteInfo](#)  
[ForExQuoteRec](#)  
[ForExQuoteRef](#)  
[ForExQuoteSel](#)  
[ForExQuoteStatus](#)

[ForExQuoteStatusRec](#)

Object Methods

Add

Advise

Can

Inq

Mod

---

## **IFX Object - ForExRateSheet**

This object allows a client to request current foreign exchange rates. These rates will be valid for a particular time range that is established by the FI.

Object Elements and Structures

[ForExRateSheetEnvr](#)

[ForExRateSheetId](#)

[ForExRateSheetInfo](#)

[ForExRateSheetRec](#)

[ForExRateSheetRef](#)

[ForExRateSheetSel](#)

[ForExRateSheetStatus](#)

[ForExRateSheetStatusRec](#)

Object Methods

Advise

Inq

---

## **IFX Object - Inventory**

The Inventory object is used to support order volumes, reorder levels, shipping addresses and seasonal order volumes for any type of inventory.

Object Elements and Structures

[InventoryEnvr](#)

[InventoryId](#)

[InventoryInfo](#)

[InventoryRec](#)

[InventoryRef](#)

[InventorySel](#)

[InventoryStatus](#)

[InventoryStatusRec](#)



## Object Methods

Add

Del

Inq

Mod

StatusInq

StatusMod

---

## IFX Object - MediaAcct

The Media Account object represents a pseudo account which contains valuable media items. It can refer to a physical container, a logical grouping of containers, or the complete set of valuable media at a client device.

## Object Elements and Structures

[MediaAcctEnvr](#)

[MediaAcctId](#)

[MediaAcctInfo](#)

[MediaAcctRec](#)

[MediaAcctRef](#)

[MediaAcctRsMsg](#)

[MediaAcctSel](#)

[MediaAcctStatus](#)

[MediaAcctStatusRec](#)

## Object Methods

Add

Aud

Inq

Mod

StatusMod

Sync

---

## IFX Object - MediaAcctTrn

The Media Account Transaction Object represents individual transactions performed on a Media Account. These transactions affect the balance of the Media Account. Typical transactions types on a media account are dispense, deposit and replenishment.

## Object Elements and Structures

[MediaAcctTrnEnvr](#)

[MediaAcctTrnId](#)

[MediaAcctTrnInfo](#)

[MediaAcctTrnRec](#)

[MediaAcctTrnRef](#)

[MediaAcctTrnRsMsg](#)

[MediaAcctTrnSel](#)

[MediaAcctTrnStatus](#)

[MediaAcctTrnStatusRec](#)

#### Object Methods

Add

Aud

Inq

Mod

Sync

---

## IFX Object - Note

Note objects are instructions, remarks and comments that can be related to any other IFX object. The Note object can be added to multiple objects with a single request.

#### Object Elements and Structures

[NoteEnvr](#)

[Noteld](#)

[NoteInfo](#)

[NoteRec](#)

[NoteRef](#)

[NoteSel](#)

[NoteStatus](#)

[NoteStatusRec](#)

#### Object Methods

Add

Del

Inq

Mod

StatusMod

---

## IFX Object - Offer

The offer object represents an offer related to an account or party for new pricing, products or services. The object supports the start date, expiration date, offer details and the response to the offer of either acceptance or rejection.

## Object Elements and Structures

[OfferEnvr](#)

[OfferId](#)

[OfferInfo](#)

[OfferRec](#)

[OfferRef](#)

[OfferRsMsg](#)

[OfferSel](#)

[OfferStatus](#)

[OfferStatusRec](#)

## Object Methods

Add

Aud

Del

Inq

Mod

StatusInq

StatusMod

Sync

---

## IFX Object - Party

A Party is a person or organization. A Party typically has some association with an account and fulfills roles such as:

- a primary or partial ownership/responsibility for an account
- a beneficiary of an account
- has signatory authorization on an account
- has legal authorization, such as power of attorney, for an account

A Party can have relationships to accounts, cards and other parties, which are described in<PartyAcctRel>,<PartyCardRel>, and<PartyPartyRel>respectively.

Parties are sometimes referred to without regard to whether the Party is a person or an organization. The distinction between person and organization is defined in PartyInfo aggregate, which is an abstract aggregate that has two concrete extensions - <PersonPartyInfo> and <OrgPartyInfo>. See [AbstractAggregates] for further discussion

## Object Elements and Structures

[PartyAuth](#)

[PartyAuthRec](#)

[PartyEnvr](#)

[PartyId](#)

[PartyInfo](#)  
[PartyRec](#)  
[PartyRef](#)  
[PartyRsMsg](#)  
[PartyRqMsg](#)  
[PartySel](#)  
[PartyStatus](#)  
[PartyStatusRec](#)  
[PersonPartyInfo](#)  
[OrgPartyInfo](#)  
[PrimaryPartyRef](#)  
[RelPartyRef](#)

#### Object Methods

Add  
Advise  
Aud  
AuthInq  
AuthMod  
Del  
Inq  
Mod  
Rev  
StatusInq  
StatusMod  
Sync

---

## IFX Object - PartyAcctRel

The PartyAcctRel object supports the ability to modify and inquire on associations of a party (i.e., customer, beneficiary) to an account. This association could be as an owner or non-owner, and is also used to indicate the primary contact and tax responsible parties.

There may be any number of parties associated with an account and an individual party may be associated with any number of accounts. Details of the relationship are captured in the PartyAcctRelInfo aggregate.

A PartyAcctRelAdd is used to add a relationship between a preexisting account and a preexisting party. Examples of how this can be used include:

- identify additional "owners" to the account (someone who is authorized to use the account at their discretion),
- identify beneficiaries of an account,
- make the account a "joint ownership", and identify the parties who share ownership,
- identify parties that have rights such as power of attorney over an

account.

#### Object Elements and Structures

[PartyAcctRelEnvr](#)

[PartyAcctRelId](#)

[PartyAcctRelInfo](#)

[PartyAcctRelRec](#)

[PartyAcctRelRef](#)

[PartyAcctRelRsMsg](#)

[PartyAcctRelRqMsg](#)

[PartyAcctRelSel](#)

[PartyAcctRelStatus](#)

[PartyAcctRelStatusRec](#)

#### Object Methods

Add

Advise

Aud

Del

Inq

Mod

Rev

StatusInq

StatusMod

Sync

---

## IFX Object - PartyCardRel

This object represents a relationship between a party and card. Institutions can use this object to effectively manage information specific to the relationship between a party and card.

#### Object Elements and Structures

[PartyCardRelEnvr](#)

[PartyCardRelId](#)

[PartyCardRelInfo](#)

[PartyCardRelRec](#)

[PartyCardRelRef](#)

[PartyCardRelRsMsg](#)

[PartyCardRelRqMsg](#)

[PartyCardRelSel](#)

[PartyCardRelStatus](#)

[PartyCardRelStatusRec](#)

## Object Methods

Add  
Advise  
Aud  
Del  
Inq  
Mod  
Rev  
StatusInq  
StatusMod  
Sync

---

## IFX Object - PartyPartyRel

This object represents any type of PartyPartyRel. Institutions can use this object and its related messages to add, modify, and inquire on the PartyPartyRel.

## Object Elements and Structures

[PartyPartyRelEnvr](#)

[PartyPartyRelId](#)

[PartyPartyRelInfo](#)

[PartyPartyRelRec](#)

[PartyPartyRelRef](#)

[PartyPartyRelRsMsg](#)

[PartyPartyRelRqMsg](#)

[PartyPartyRelSel](#)

[PartyPartyRelStatus](#)

[PartyPartyRelStatusRec](#)

## Object Methods

Add  
Advise  
Aud  
Del  
Inq  
Mod  
Rev  
StatusInq  
StatusMod  
Sync

---

## IFX Object - PartySvcAcctRel

Party Service Account Relationship objects are used to record the association of an account with a service for a particular party. The account is often a default for fee payments associated with the service.

#### Object Elements and Structures

[PartySvcAcctRelEnvr](#)

[PartySvcAcctRelId](#)

[PartySvcAcctRelInfo](#)

[PartySvcAcctRelRec](#)

[PartySvcAcctRelRef](#)

[PartySvcAcctRelSel](#)

[PartySvcAcctRelStatus](#)

[PartySvcAcctRelStatusRec](#)

#### Object Methods

Add

Del

Inq

Mod

StatusInq

StatusMod

---

## IFX Object - PartySvcRel

Customers, consumers and other parties may be required to activate services, accept disclosures and link accounts to those services.

#### Object Elements and Structures

[PartySvcRelAuth](#)

[PartySvcRelAuthRec](#)

[PartySvcRelEnvr](#)

[PartySvcRelId](#)

[PartySvcRelInfo](#)

[PartySvcRelRec](#)

[PartySvcRelRef](#)

[PartySvcRelRsMsg](#)

[PartySvcRelSel](#)

[PartySvcRelStatus](#)

[PartySvcRelStatusRec](#)

#### Object Methods

Add

Advise

Aud

AuthInq  
AuthMod  
Del  
Inq  
Mod  
StatusInq  
StatusMod  
Sync

---

## IFX Object - Passbk

This object represents a customer passbook. A passbook is used to officially record how much money (credit) is in a customer's bank account. Institutions can use this object and its related messages to add, modify, delete, and inquire on a passbook.

### Object Elements and Structures

[PassbkEnvr](#)  
[PassbkId](#)  
[PassbkInfo](#)  
[PassbkRec](#)  
[PassbkRef](#)  
[PassbkRsMsg](#)  
[PassbkRqMsg](#)  
[PassbkSel](#)  
[PassbkStatus](#)  
[PassbkStatusRec](#)

### Object Methods

Add  
Aud  
Del  
Inq  
Mod  
Rev  
StatusInq  
StatusMod  
Sync

---

## IFX Object - PassbkItem

This object represents a passbook transaction. It reflects a change on the customer's account associated with the passbook and is printed as one line on the passbook. Institutions can use this object and its related messages to add, modify, delete an Passbook Item, and inquire a list of



Passbook Items on given passbook. Although the modify and delete messages are defined, in all practical situations no passbook holder or bank staff would likely have permission to use them.

#### Object Elements and Structures

[PassbkItemEnvr](#)

[PassbkItemId](#)

[PassbkItemInfo](#)

[PassbkItemRec](#)

[PassbkItemRef](#)

[PassbkItemRsMsg](#)

[PassbkItemRqMsg](#)

[PassbkItemSel](#)

[PassbkItemStatus](#)

[PassbkItemStatusRec](#)

#### Object Methods

Add

Aud

Del

Inq

Mod

Rev

StatusInq

StatusMod

Sync

---

## IFX Object - Pmt

A payment is a single payment. IFX allows a debtor to indicate which invoices are included in a payment, including line item detail. A debtor may create a payment that pays one or more invoices or may choose to pay specific line items from one or more invoices. (See PmtCreditDetail.)

#### Object Elements and Structures

[PmtEnvr](#)

[PmtId](#)

[PmtInfo](#)

[PmtRec](#)

[PmtRef](#)

[PmtRsMsg](#)

[PmtRqMsg](#)

[PmtSel](#)

[PmtStatus](#)

[PmtStatusRec](#)

Object Methods

Add  
Aud  
Can  
Inq  
Mod  
Rev  
Sync

---

## IFX Object - PmtBatch

Object Elements and Structures

[PmtBatchEnvr](#)  
[PmtBatchId](#)  
[PmtBatchInfo](#)  
[PmtBatchRec](#)  
[PmtBatchRef](#)  
[PmtBatchRqMsg](#)  
[PmtBatchSel](#)  
[PmtBatchStatus](#)  
[PmtBatchStatusRec](#)

Object Methods

Add  
Can  
Rev

---

## IFX Object - PmtBatchStat

Object Elements and Structures

[PmtBatchStatEnvr](#)  
[PmtBatchStatId](#)  
[PmtBatchStatInfo](#)  
[PmtBatchStatRec](#)  
[PmtBatchStatRef](#)  
[PmtBatchStatSel](#)  
[PmtBatchStatStatus](#)  
[PmtBatchStatStatusRec](#)

Object Methods

Advise  
Inq

---

## IFX Object - PmtEncl

Object Elements and Structures

[PmtEnclEnvr](#)  
[PmtEnclId](#)  
[PmtEnclInfo](#)  
[PmtEnclRec](#)  
[PmtEnclRef](#)  
[PmtEnclRsMsg](#)  
[PmtEnclRqMsg](#)  
[PmtEnclSel](#)  
[PmtEnclStatus](#)  
[PmtEnclStatusRec](#)

Object Methods

Add  
Advise  
Aud  
Can  
Inq  
Mod  
Rev  
StatusMod

---

## IFX Object - ProdIntRate

This object supports interest rates for a deposit or credit type account. The primary use of this object is to communicate the interest rate attributes of a particular financial product to a prospective or existing party.

Object Elements and Structures

[ProdIntRateEnvr](#)  
[ProdIntRateId](#)  
[ProdIntRateInfo](#)  
[ProdIntRateRec](#)  
[ProdIntRateRef](#)  
[ProdIntRateSel](#)  
[ProdIntRateStatus](#)  
[ProdIntRateStatusRec](#)

Object Methods

Inq

---

## IFX Object - PurchItem

Object Elements and Structures

[PurchItemEnvr](#)

[PurchItemId](#)

[PurchItemInfo](#)

[PurchItemRec](#)

[PurchItemRef](#)

[PurchItemRqMsg](#)

[PurchItemSel](#)

[PurchItemStatus](#)

[PurchItemStatusRec](#)

Object Methods

Add

Del

Inq

Mod

Rev

---

## IFX Object - RecurChkOrd

This model supports generating an instance of a Check Order based on a predefined template.

See [Recurring Models](#) Discussion.

Object Elements and Structures

[RecurChkOrdEnvr](#)

[RecurChkOrdId](#)

[RecurChkOrdInfo](#)

[RecurChkOrdRec](#)

[RecurChkOrdRef](#)

[RecurChkOrdRsMsg](#)

[RecurChkOrdSel](#)

[RecurChkOrdStatus](#)

[RecurChkOrdStatusRec](#)

Object Methods

Add

Aud

Can  
Del  
Inq  
Mod  
Sync

---

## IFX Object - RecurPmt

This model supports generating an instance of a Payment based on a predefined template.

See [Recurring Models](#) Discussion.

Object Elements and Structures

[RecurPmtEnvr](#)

[RecurPmtId](#)

[RecurPmtInfo](#)

[RecurPmtRec](#)

[RecurPmtRef](#)

[RecurPmtRsMsg](#)

[RecurPmtRqMsg](#)

[RecurPmtSel](#)

[RecurPmtStatus](#)

[RecurPmtStatusRec](#)

Object Methods

Add

Aud

Can

Del

Inq

Mod

Rev

Sync

---

## IFX Object - RecurXfer

This model supports generating an instance of a Transfer based on a predefined template.

See [Recurring Models](#) Discussion.

Object Elements and Structures

[RecurXferEnvr](#)

[RecurXferId](#)

[RecurXferInfo](#)

[RecurXferRec](#)  
[RecurXferRef](#)  
[RecurXferRsMsg](#)  
[RecurXferRqMsg](#)  
[RecurXferSel](#)  
[RecurXferStatus](#)  
[RecurXferStatusRec](#)

#### Object Methods

Add  
Aud  
Can  
Del  
Inq  
Mod  
Rev  
Sync

---

## IFX Object - Remit

Remittance information indicates what the payment is for, i.e. bills, invoices, etc. that the payment should be applied to in order to fulfill the exchange of goods and/or services exchanged between parties. Remittance can be conveyed along with a Payment or separately, via either the same communications mechanism or a different one. If Payment and Remittance are provided separately, a reference would be included in one or the other or both to re-associate them at the endpoint.

#### Object Elements and Structures

[RemitEnvr](#)  
[RemitId](#)  
[RemitInfo](#)  
[RemitRec](#)  
[RemitRef](#)  
[RemitRsMsg](#)  
[RemitRqMsg](#)  
[RemitSel](#)  
[RemitStatus](#)  
[RemitStatusRec](#)

#### Object Methods

Add  
Aud  
Del  
Inq

Mod  
Rev  
StatusMod  
Sync

---

## IFX Object - SecObj

Security Object

Object Elements and Structures

[SecObjEnvr](#)

[SecObjId](#)

[SecObjInfo](#)

[SecObjRec](#)

[SecObjRef](#)

[SecObjRsMsg](#)

[SecObjSel](#)

[SecObjStatus](#)

[SecObjStatusRec](#)

[SecEncryptRef](#)

[SecSignRef](#)

Object Methods

Add

Advise

Del

Inq

Mod

StatusInq

Sync

---

## IFX Object - StdPayee

A Standard Payee is a merchant or payment recipient whose remittance attributes are well known to the CPP. Typically remittance attributes include remittance method (ACH-CIE, ACH-CTX, RPS, ePay, etc.), concentrator, lockbox, posting exceptions contact, etc. A standard payee is uniquely identified within a CPP with a payee identifier <StdPayeeId>. The customer need only reference the Standard Payee. A customer should not be able to modify the <StdPayeeId> of a standard payee. Standard Payees are typically national, regional, or large local companies or organizations (such as billers) that have contracted with the CPP to consolidate payments from multiple consumers and small businesses.

Because the CPP consolidates payments, it already has sufficient remittance information about the biller in its systems, and the customer

does not need to enter all the information required for a Fully-Specified Payee. In some countries, Standard Payees are assigned unique identifiers on a national basis, while in others a biller identifier may only be significant to a single CPP. IFX allows for both cases by qualifying a biller number with the name of the organization that assigned it (e.g., the <StdPayeeld> is the Biller as known by the CPP, and the <BillerId> is the Biller as known by the Biller or BSP). Note that anytime a <StdPayeeld> exists outside of a payment message, it must include the CPP <SPIdent> to scope its value.

#### Object Elements and Structures

[StdPayeeEnvr](#)

[StdPayeeld](#)

[StdPayeeInfo](#)

[StdPayeeRec](#)

[StdPayeeRef](#)

[StdPayeeRqMsg](#)

[StdPayeeSel](#)

[StdPayeeStatus](#)

[StdPayeeStatusRec](#)

#### Object Methods

Inq

Rev

---

## IFX Object - StopChk

The StopChk object is used to prevent check clearing through a financial institution. One check or multiple checks (using range of check numbers) can be referenced in a single request.

#### Object Elements and Structures

[StopChkEnvr](#)

[StopChkId](#)

[StopChkInfo](#)

[StopChkRec](#)

[StopChkRef](#)

[StopChkRsMsg](#)

[StopChkRqMsg](#)

[StopChkSel](#)

[StopChkStatus](#)

[StopChkStatusRec](#)

#### Object Methods

Add



Advise  
Aud  
Can  
Inq  
Rev  
Sync

---

## IFX Object - Svc

The mechanism to support inter-server identification of supported services will now be captured in a Service object. The Service can be interrogated via standard IFX inquiry messages.

Object Elements and Structures

[SvcEnvr](#)

[SvcId](#)

[SvcInfo](#)

[SvcRec](#)

[SvcRef](#)

[SvcRsMsg](#)

[SvcSel](#)

[SvcStatus](#)

[SvcStatusRec](#)

Object Methods

Advise

Inq

StatusInq

Sync

---

## IFX Object - SvcProvider

Businesses which adopt the standard in order to provide services to customers (clients) with well-defined terms and scope are Service Providers. Service Providers are identified by URL that is also the access point for customers to access the services offered. Support of this provider-to-customer communication continues to be a vital business function.

Object Elements and Structures

[SvcProviderEnvr](#)

[SvcProviderId](#)

[SvcProviderInfo](#)

[SvcProviderRec](#)

[SvcProviderRef](#)

[SvcProviderSel](#)  
[SvcProviderStatus](#)  
[SvcProviderStatusRec](#)

Object Methods  
Inq

---

## IFX Object - TerminalObj

The TerminalObj represents an ATM/POS terminal or similar device. The terminal itself acts as the owner/server of TerminalObj.

The most important use of TerminalObj is to modify its status. The <terminalobjstatuscode> indicates whether the terminal is Open or Closed. If it is open, the terminal accepts business transactions and administrative maintenance. If it is closed, only administrative maintenance may be performed.

The <TerminalObjStatusCode> is typically set by the terminal itself based on instructions from the server via <RequestedOperationMode> in a <TerminalObjStatusModRq>.

A terminal that is closed may have an ExpectedOpenDt which is the date/time that the terminal is expected to return to "open" status. This can be used to inform customers when the terminal will once again be available for use.

Object Elements and Structures

[TerminalObjEnvr](#)  
[TerminalObjId](#)  
[TerminalObjInfo](#)  
[TerminalObjRec](#)  
[TerminalObjRef](#)  
[TerminalObjRsMsg](#)  
[TerminalObjSel](#)  
[TerminalObjStatus](#)  
[TerminalObjStatusRec](#)

Object Methods  
Add  
Advise  
Aud  
Del  
Inq  
Mod  
StatusMod

---

## IFX Object - TerminalSPObj

The Terminal SP Object identifies a Service Provider that includes a unique identifier which uniquely identifies it within a particular terminal network.

### Object Elements and Structures

[TerminalSPObjEnvr](#)

[TerminalSPObjId](#)

[TerminalSPObjInfo](#)

[TerminalSPObjRec](#)

[TerminalSPObjRef](#)

[TerminalSPObjRsMsg](#)

[TerminalSPObjSel](#)

[TerminalSPObjStatus](#)

[TerminalSPObjStatusRec](#)

### Object Methods

Add

Advise

Aud

Del

Inq

Mod

---

## IFX Object - Trn

The Transaction object exists to provide one and only one standard element, <TrnRef>, which is an abstract aggregate which is extended by <AcctTrnRef>, <CreditRef> and <DebitRef>.

### Object Elements and Structures

[TrnRef](#)

[CreditRef](#)

[DebitRef](#)

[AcctTrnRef](#)

---

## IFX Object - Xfer

Transfers may be single currency transfers, (i.e. the source and target amount is the same) or may be foreign exchange transfer (i.e. source and target amounts have different ISO currency code).

Some Financial Institutions make exchange rate commitments (see Foreign Exchange objects and messages). Usually, these commitments

expire after a short period of time. Where a specific foreign exchange contract is referred to, the <ForExDealRef> may referenece a <ForExDealId>.

In some cases, a customer may not be able to specify the exchange rate for a foreign exchange transfer. Typically, the Financial Institution makes the transfer at the prevailing exchange rate at the time of the transfer, often considering such factors as the amount of transfer and the customer relationship with the Financial Institution, in addition to the interbank exchange rate. In this case, the message response may include the details of the exchange rate in the <ForExDealInfo> in the <ForExDealRef>.

## Object Elements and Structures

[XferEnvr](#)

[XferId](#)

[XferInfo](#)

[XferRec](#)

[XferRef](#)

[XferRsMsg](#)

[XferRqMsg](#)

[XferSel](#)

[XferStatus](#)

[XferStatusRec](#)

## Object Methods

Add

Advise

Aud

Can

Inq

Mod

Rev

StatusMod

Sync

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## 10 — IFX Interfaces

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### IFX Interface

Name AllIFX

Namespace

Description An Interface that contains all of the defined IFX messages and Operations.? For use in generating a monolithic XSD.

Short            All IFX Messages and Operations.  
Description

**Operations**

[ForExQuoteAddOper](#)

[ForExDealAddOper](#)

**Messages**

[AcctAcctRelAddRq](#)

[AcctAcctRelAddRs](#)

[AcctAcctRelDelRq](#)

[AcctAcctRelDelRs](#)

[AcctAcctRelInqRq](#)

[AcctAcctRelInqRs](#)

[AcctAcctRelModRq](#)

[AcctAcctRelModRs](#)

[AcctAcctRelStatusInqRq](#)

[AcctAcctRelStatusInqRs](#)

[AcctAcctRelStatusModRq](#)

[AcctAcctRelStatusModRs](#)

[AcctAddRq](#)

[AcctAddRs](#)

[AcctAdviseRq](#)

[AcctAdviseRs](#)

[AcctAudRq](#)

[AcctAudRs](#)

[AcctDelRq](#)

[AcctDelRs](#)

[AcctHoldAddRq](#)

[AcctHoldAddRs](#)

[AcctHoldDelRq](#)

[AcctHoldDelRs](#)

[AcctHoldInqRq](#)

[AcctHoldInqRs](#)

[AcctHoldModRq](#)

[AcctHoldModRs](#)

[AcctHoldStatusInqRq](#)

[AcctHoldStatusInqRs](#)

[AcctHoldStatusModRq](#)

[AcctHoldStatusModRs](#)

[AcctInqRq](#)

[AcctInqRs](#)

[AcctModRq](#)

[AcctModRs](#)

[AcctPayOffAddRq](#)

[AcctPayOffAddRs](#)

[AcctPayOffInqRq](#)  
[AcctPayOffInqRs](#)  
[AcctPayOffStatusModRq](#)  
[AcctPayOffStatusModRs](#)  
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[AcctStatusModRq](#)  
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[AcctStmtInqRs](#)  
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[AcctStmtRevRs](#)  
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[AthStatusModRs](#)  
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[AthSyncRs](#)  
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[BillerRevRq](#)  
[BillerRevRs](#)  
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[BillInqRs](#)  
[BillRevRq](#)  
[BillRevRs](#)  
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[BillStatusModRs](#)  
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[CardAcctRelAudRs](#)  
[CardAcctRelDelRq](#)  
[CardAcctRelDelRs](#)  
[CardAcctRelInqRq](#)  
[CardAcctRelInqRs](#)  
[CardAcctRelModRq](#)  
[CardAcctRelModRs](#)

[CardAcctRelRevRq](#)  
[CardAcctRelRevRs](#)  
[CardAcctRelStatusInqRq](#)  
[CardAcctRelStatusInqRs](#)  
[CardAcctRelStatusModRq](#)  
[CardAcctRelStatusModRs](#)  
[CardAcctRelSyncRq](#)  
[CardAcctRelSyncRs](#)  
[CardAddRq](#)  
[CardAddRs](#)  
[CardAdviseRq](#)  
[CardAdviseRs](#)  
[CardAudRq](#)  
[CardAudRs](#)  
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[CardAuthInqRs](#)  
[CardAuthModRq](#)  
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[CardDelRq](#)  
[CardDelRs](#)  
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[CardModRq](#)  
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[CardOrderAddRs](#)  
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[CardOrderStatusInqRs](#)  
[CardOrderStatusModRq](#)  
[CardOrderStatusModRs](#)  
[CardOrderSyncRq](#)  
[CardOrderSyncRs](#)  
[CardOrderSyncRs](#)



[CardRevRs](#)  
[CardStatusInqRq](#)  
[CardStatusInqRs](#)  
[CardStatusModRq](#)  
[CardStatusModRs](#)  
[CardSyncRq](#)  
[CardSyncRs](#)  
[CardUpdateStatusModRq](#)  
[CardUpdateStatusModRs](#)  
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[ChkAcceptAddRs](#)  
[ChkAcceptAudRq](#)  
[ChkAcceptAudRs](#)  
[ChkAcceptCanRq](#)  
[ChkAcceptCanRs](#)  
[ChkAcceptInqRq](#)  
[ChkAcceptInqRs](#)  
[ChkAcceptModRq](#)  
[ChkAcceptModRs](#)  
[ChkAcceptRevRq](#)  
[ChkAcceptRevRs](#)  
[ChkAcceptStatusModRq](#)  
[ChkAcceptStatusModRs](#)  
[ChkAcceptSyncRq](#)  
[ChkAcceptSyncRs](#)  
[ChkIssueAddRq](#)  
[ChkIssueAddRs](#)  
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[ChkIssueDelRs](#)  
[ChkIssueInqRq](#)  
[ChkIssueInqRs](#)  
[ChkIssueModRq](#)  
[ChkIssueModRs](#)  
[ChkIssueStatusModRq](#)  
[ChkIssueStatusModRs](#)  
[ChkIssueSyncRq](#)  
[ChkIssueSyncRs](#)  
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[ChkOrdAddRs](#)  
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## IFX Interface

Name FXInterface  
Namespace  
Description An interface example  
Short Description Example Interface

### Operations

[ForExQuoteAddOper](#)

### Messages

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## 11 — IFX Operations

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### IFX Operation

Name ForExDealAddOper  
Namespace  
Description Foreign Exchange Deal Add Operation Request  
Short Description Foreign Exchange Deal Add Operation Request  
Reversal Not Defined

### Operation Methods

ForExDealAddOper

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### IFX Operation

Name ForExQuoteAddOper  
Namespace  
Description Foreign Exchange Quote Add Operation Request  
Short Description Foreign Exchange Quote Add Operation Request

Reversal            Not Defined  
Operation Methods  
ForExQuoteAddOper

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## IFX Tags

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### Disclosure Accept Required <AcceptReqd>

Disclosure Accept Required. The server indicates whether the acceptance of this disclosure is required. If set to *True*, acceptance is required.

Datatype: **Boolean**

---

### Accrual Frequency <AccrualFrequency>

Frequency at which interest will be (or is) accrued on the account.

Extends: [RecurRule](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from RecurRule			
<a href="#">RecurType</a>	Closed Enum	Optional	RecurType Valid values are limited to: Daily, Monthly, Weekly, Yearly
<a href="#">RecurInterval</a>	Long	Optional	Recurrence Interval
<a href="#">RecurInstance</a>	Long	Optional	Recurrence Instance
<a href="#">DayOfWeek</a>	Closed Enum	Optional	Day Of Week Valid values are limited to: Friday, Monday, Saturday, Sunday, Thursday, Tuesday, Wednesday
<a href="#">DayOfMonth</a>	Closed Enum	Optional	Day Of Month Valid values are limited to: 1, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 2, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 3, 30, 31, 4, 5, 6, 7, 8, 9
<a href="#">Month</a>	Long	Optional	Month
<a href="#">TimeOfDay</a>	Time	Optional	Time Of Day

<a href="#">RecurStartDate</a>	Date	Optional	Recurrence Start Date
begin-xor		Optional	
<a href="#">Occurrences</a>	Long	Required	Occurrences
<a href="#">RecurEndDate</a>	Date	Required	Recurrence End Date
end-xor			
<a href="#">AdjDays</a>	Long	Optional	Adjustment Days
<a href="#">AdjDaysBasis</a>	Open Enum	Optional	Adjustment Days Basis  Valid values include: DueDt, EndOfMonth, StmtDt  Default Value: StmtDt
end Elements from RecurRule			
begin Aggregate			
end Aggregate			

---

### Accrual Method <AccrualMethod>

Method used to calculate interest accrual. For example: Daily, Minimum Monthly Balance, Flat Rate, Simple Interest.

Datatype: **C-80**

---

### Account to Account Relationship Add Message <AcctAcctRelAddRq>

Account to Account Relationship Add Message

See the matching response message [AcctAcctRelAddRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header



<a href="#">AcctAcctRelInfo</a>	Aggregate	Required	Account to Account Relationship Information Aggregate
end Aggregate			

---

### Account to Account Relationship Add Response <AcctAcctRelAddRs>

Account to Account Relationship Add Response

See the matching request message [AcctAcctRelAddRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">AcctAcctRelRec</a>	Aggregate	Required	Account to Account Relationship Record
<a href="#">AcctAcctRelStatusRec</a>	Aggregate	Required	Account to Account Relationship Status Record
end-xor			
end-block			
end Aggregate			

---

### Account to Account Relationship Delete Request <AcctAcctRelDelRq>

Account to Account Relationship Delete Request

See the matching response message [AcctAcctRelDelRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">AcctAcctRelKeys</a>	Aggregate	Required	Account to Account Relationship Keys Aggregate
end Aggregate			

---

**Account to Account Relationship Delete Response**  
**<AcctAcctRelDelRs>**

Account to Account Relationship Delete Response

See the matching request message [AcctAcctRelDelRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">AcctAcctRelRec</a>	Aggregate	Required	Account to Account Relationship Record
<a href="#">AcctAcctRelStatusRec</a>	Aggregate	Required	Account to Account Relationship Status Record
end-xor			
end-block			
end Aggregate			

---

**Account to Account Relationship Environment Aggregate**

## <AcctAcctRelEnvr>

Account to Account Relationship Environment Aggregate

Extends: [BaseEnvr](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseEnvr			
<a href="#">CreatedDt</a>	DateTime	Required	Created Date/Time. The date/time the object was created.
<a href="#">CreateRefIdent</a>	NC-36	Optional	An identifier used to uniquely identify the creation of this object to the system that created the object. This will usually be a link to reference information used in creating the object.
<a href="#">ClientCreateDt</a>	DateTime	Optional	The created date/time as reported by the client. This can vary from the object creation date/time due to time zone differences, communication delays, etc
<a href="#">ClientBusinessDt</a>	DateTime	Optional	The date/time that the client recorded this object for operational purposes. This date/time will often be used to manage the availability of information or funds.
<a href="#">LastUpdateDt</a>	DateTime	Optional	Last update Date/Time. The date/time the object was created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LastUpdateRqUID</a>	UUID	Optional	Last update RqUID. The RqUID from the message that resulted in the object being created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LoginName</a>	C-40	Optional	The login name (or Id) of the individual that authorized this object to be created. This is typically used when the object is created on behalf of its owner by someone who is not normally represented as a Party (i.e., an employee or agent).
<a href="#">PartyKeys</a>	Aggregate	Optional	Reference to the Party that this object is owned by or authorized by.
<a href="#">CardKeys</a>	Aggregate	Optional	This is dependent on Card proposal. Currently this is implemented as the CardLogicalData aggregate.
<a href="#">PassbkKeys</a>	Aggregate	Optional	Currently PassbkAcceptData.

<a href="#">NetworkTrnData</a>	Aggregate	Optional	Network Transaction Information. Identification and location of the terminal from which the message originates.
<a href="#">ServerTerminalSeqNum</a>	NC-36	Optional	Server Terminal Sequence Number. A terminal sequence number generated by the server to identify this object. This number is used in ATM and POS environments to uniquely identify transactions (with terminal name and date) for transaction management.
<a href="#">PointOfServiceData</a>	Aggregate	Optional	The Point of Service Data. This aggregate contains information about the environment in which this message originated.
<a href="#">ClientTerminalSeqNum</a>	NC-36	Optional	Client Terminal Sequence Number. A terminal sequence number generated by the client to identify this object. This number is used in ATM, POS, Branch, Call Center and Teller environments to uniquely identify transactions at the client (with terminal name and date). This number is often required when requesting supporting documentation related to a customer transaction.
end Elements from BaseEnvr			
begin Aggregate			
end Aggregate			

---

**Account to Account Relationship Identifier <AcctAcctRelId>**

Account to Account Relationship Identifier

Datatype: **Identifier**

---

**Account to Account Relationship Information Aggregate <AcctAcctRelInfo>**

Account to Account Relationship Information Aggregate

Datatype: **Aggregate**

---

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">AcctRef</a>	Aggregate	Required	Reference to the primary or control account in the relationship.
<a href="#">RelAcctRef</a>	Aggregate	Required	Related Account Reference
<a href="#">AcctRelType</a>	Open Enum	Optional	Account Relationship Type  Valid values include: IntCalcAmt, IntCalcBal, IntDist, Overdraft, SweepIn, SweepOut
<a href="#">AcctRelName</a>	C-96	Optional	Account Relationship Name
<a href="#">RelEstablishDt</a>	DateTime	Optional	Relationship Established Date
<a href="#">Priority</a>	C-10	Optional	Indicates priority when multiple objects exists, for example for an overdraft protection relationship, sweep distribution, interest distribution.
<a href="#">TimeFrame</a>	Aggregate	Optional	Start and end date of relationship. If not present, starts when relationship is added and ends when relationship is deleted.
<a href="#">LimitAmt</a>	Aggregate	Optional	Indicates maximum or minimum limit based on usage. For example: The amount is the high balance limit for sweep account relationship, or amount is the maximum amount limit for covering an overdraft.
<a href="#">Percent</a>	Decimal	Optional	When used in conjunction with AcctRelType = IntCalcBal, if no Percent is provided then assume 100% of balance is used.
end Aggregate			

---

**Account to Account Relationship Inquiry Request**  
**<AcctAcctRelInqRq>**

Account to Account Relationship Inquiry Request

See the matching response message [AcctAcctRelInqRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier

<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">DocCtrlIn</a>	Aggregate	Optional	Document Control Input
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
begin-xor		Optional Repeating	
<a href="#">AcctAcctRelSel</a>	Aggregate	Required	Account to Account Relationship Selection Aggregate
<a href="#">RecSelect</a>	IfxPath	Required	Record Select
end-xor			
end Aggregate			

---

### Account to Account Relationship Inquiry Response <AcctAcctRelInqRs>

Account to Account Relationship Inquiry Response

See the matching request message [AcctAcctRelInqRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">DocCtrlOut</a>	Aggregate	Optional	Document Control Output
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">AcctAcctRelRec</a>	Aggregate	Required Repeating	Account to Account Relationship Record
end-block			
end Aggregate			

---

### Account to Account Relationship Keys Aggregate

## <AcctAcctRelKeys>

Account to Account Relationship Keys Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
begin-xor		Required	
<a href="#">AcctAcctRelId</a>	Identifier	Required	Account to Account Relationship Identifier
begin-or		Required	
<a href="#">AcctKeys</a>	Aggregate	Required	Account Keys Aggregate
<a href="#">RelAcctKeys</a>	Aggregate	Required	Related Account Keys
<a href="#">AcctRelType</a>	Open Enum	Optional	Account Relationship Type  Valid values include: IntCalcAmt, IntCalcBal, IntDist, Overdraft, SweepIn, SweepOut
<a href="#">AcctRelName</a>	C-96	Optional	Account Relationship Name
end-or			
end-xor			
end Aggregate			

---

## Account to Account Relationship Modify Request

### <AcctAcctRelModRq>

Account to Account Relationship Modify Request

See the matching response message [AcctAcctRelModRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">AcctAcctRelKeys</a>	Aggregate	Required	Account to Account Relationship Keys Aggregate

begin-block		Required Repeating	
<a href="#">AcctAcctRelInfo</a>	Aggregate	Required	Account to Account Relationship Information Aggregate
begin-xor		Optional Repeating	
<a href="#">DelElements</a>	lfxPath	Required	An lfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to delete. It is an error if one attempts to delete Required fields.
<a href="#">UpdElements</a>	lfxPath	Required	An lfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to update. The new value of the updated element is in the accompanying xxxInfo aggregate.
<a href="#">NewElements</a>	lfxPath	Required	An lfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to add. The new value of the new elements is in the accompanying xxxInfo aggregate.
end-xor			
end-block			
end Aggregate			

## Account to Account Relationship Modify Response <AcctAcctRelModRs>

Account to Account Relationship Modify Response

See the matching request message [AcctAcctRelModRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
		Aggregate	



<a href="#">AcctAcctRelRec</a>		Required	Account to Account Relationship Record
<a href="#">AcctAcctRelStatusRec</a>	Aggregate	Required	Account to Account Relationship Status Record
end-xor			
end-block			
end Aggregate			

---

### Account to Account Relationship Record <AcctAcctRelRec>

Account to Account Relationship Record

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">AcctAcctRelId</a>	Identifier	Required	Account to Account Relationship Identifier
<a href="#">AcctAcctRelInfo</a>	Aggregate	Required	Account to Account Relationship Information Aggregate
<a href="#">AcctAcctRelEnvr</a>	Aggregate	Optional	Account to Account Relationship Environment Aggregate
<a href="#">AcctAcctRelStatus</a>	Aggregate	Required	Account to Account Relationship Status Aggregate
end Aggregate			

---

### Account to Account Relationship Reference Aggregate <AcctAcctRelRef>

Account to Account Relationship Reference Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">AcctAcctRelKeys</a>	Aggregate	Required	Account to Account Relationship Keys

			Aggregate
<a href="#">AcctAcctRelRec</a>	Aggregate	Required	Account to Account Relationship Record
<a href="#">AcctAcctRelInfo</a>	Aggregate	Required	Account to Account Relationship Information Aggregate
end-xor			
end Aggregate			

### Account to Account Relationship Selection Aggregate <AcctAcctRelSel>

Account to Account Relationship Selection Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required Repeating	
<a href="#">AcctAcctRelKeys</a>	Aggregate	Required	Account to Account Relationship Keys Aggregate
begin-block		Required	
<a href="#">AcctKeys</a>	Aggregate	Optional	Account Keys Aggregate
<a href="#">RelAcctKeys</a>	Aggregate	Optional	Related Account Keys
<a href="#">AcctRelType</a>	Open Enum	Optional	Account Relationship Type  Valid values include: IntCalcAmt, IntCalcBal, IntDist, Overdraft, SweepIn, SweepOut
<a href="#">AcctRelName</a>	C-96	Optional	Account Relationship Name
<a href="#">DtRange</a>	Aggregate	Optional	Returns relationships where RelEstablishedDt falls within date range.
<a href="#">IncludeAllRelInd</a>	Boolean	Optional	Used to return all relationships regardless of whether AcctKeys is found as the primary account or relationship account in the AcctAcctRel object. Specify AcctKeys or RelAcctKeys only, not both.
end-block			
end-xor			
end Aggregate			

---

**Account to Account Relationship Status Aggregate**  
**<AcctAcctRelStatus>**

Account to Account Relationship Status Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">AcctAcctRelStatusCode</a>	Open Enum	Required	Account to Account Relationship Status Code <hr/> Valid values include: Deleted, Valid
<a href="#">StatusDesc</a>	C-255	Optional	Status Description
<a href="#">EffDt</a>	DateTime	Optional	Effective Date Time
<a href="#">StatusModBy</a>	Open Enum	Optional	Status Modified By <hr/> Valid values include: BPP, BPPSR, BSP, BPSR, CPP, CPPSR, CSP, CSPSR, Customer, FI, PSP
end Aggregate			

---

**Account to Account Relationship Status Code**  
**<AcctAcctRelStatusCode>**

Account to Account Relationship Status Code

Datatype: **Open Enum**

**Enumerated Values**

Value	Description	Is default
Valid		N
Deleted		N

---

## Account to Account Relationship Status Inquiry Request <AcctAcctRelStatusInqRq>

Account to Account Relationship Status Inquiry Request

See the matching response message [AcctAcctRelStatusInqRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
begin-xor		Optional Repeating	
<a href="#">AcctAcctRelSel</a>	Aggregate	Required	Account to Account Relationship Selection Aggregate
<a href="#">RecSelect</a>	IfxPath	Required	Record Select
end-xor			
end Aggregate			

## Account to Account Relationship Status Inquiry Response <AcctAcctRelStatusInqRs>

Account to Account Relationship Status Inquiry Response

See the matching request message [AcctAcctRelStatusInqRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful

<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">AcctAcctRelStatusRec</a>	Aggregate	Optional Repeating	Account to Account Relationship Status Record
end-block			
end Aggregate			

---

### Account to Account Relationship Status Modify Request <AcctAcctRelStatusModRq>

Account to Account Relationship Status Modify Request

See the matching response message [AcctAcctRelStatusModRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">AcctAcctRelKeys</a>	Aggregate	Required	Account to Account Relationship Keys Aggregate
<a href="#">AcctAcctRelStatus</a>	Aggregate	Required	Account to Account Relationship Status Aggregate
end Aggregate			

---

### Account to Account Relationship Status Modify Response <AcctAcctRelStatusModRs>

Account to Account Relationship Status Modify Response

See the matching request message [AcctAcctRelStatusModRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status

<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">AcctAcctRelStatusRec</a>	Aggregate	Required	Account to Account Relationship Status Record
end-block			
end Aggregate			

---

### Account to Account Relationship Status Record <AcctAcctRelStatusRec>

Account to Account Relationship Status Record

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">AcctAcctRelId</a>	Identifier	Required	Account to Account Relationship Identifier
<a href="#">AcctAcctRelStatus</a>	Aggregate	Required	Account to Account Relationship Status Aggregate
end Aggregate			

---

### Account Add Message <AcctAddRq>

Account Add Message

See the matching response message [AcctAddRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
	Aggregate		

<a href="#">MsgRqHdr</a>		Optional	Message Request Header
<a href="#">AcctInfo</a>	Aggregate	Required	Account Information Aggregate
end Aggregate			

---

### Account Add Response <AcctAddRs>

Account Add Response

See the matching request message [AcctAddRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">AcctRec</a>	Aggregate	Required	Account Record
<a href="#">AcctStatusRec</a>	Aggregate	Required	Account Status Record
end-xor			
end-block			
end Aggregate			

---

### Account Advise Message <AcctAdviseRq>

Account Advise Message

See the matching response message [AcctAdviseRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
-----	------	-------	---------------------------

begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
begin-xor		Required	
<a href="#">AcctRec</a>	Aggregate	Required	Account Record
<a href="#">AcctStatusRec</a>	Aggregate	Required	Account Status Record
end-xor			
end Aggregate			

---

### Account Advise Response <AcctAdviseRs>

Account Advise Response

See the matching request message [AcctAdviseRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">AcctRec</a>	Aggregate	Required	Account Record
<a href="#">AcctStatusRec</a>	Aggregate	Required	Account Status Record
end-xor			
end-block			
end Aggregate			

---

### Account Amount Type <AcctAmtType>

Most account amounts are expressed by period (cycle, MTD, YTD, etc.),



they may or may not be accompanied by the count transactions representing that amount. Some account amounts are also expressed by date and amount of last occurrence and some are only maintained by last occurrence, typically counts are not associated with last occurrence. The table below indicates the most common usage of each AcctAmtType.

<AcctAmtType>	Description	Usage		
		Amount (Last or Total)	Count	Last Occurrence
Credit	Credit.	X	x	x
Debit	Debit.	X	x	x
NSF	Non-sufficient funds. Occurs when the funds in an account are insufficient to fulfill a draft/check written against the account.	X	x	x
Overdraft	Overdraft Amount. The amount that an account is in overdraft, typically a negative balance on a checking account.	X		
Overlimit	Over Limit Amount. The amount an account exceeds its credit limit, typically on a credit card or line-of-credit type account.	X		
Interest	Interest	X		x
PastDue	Past Due Amount.	X		
Fee	Fee.	X	x	x
NSFFee	Non-sufficient funds fee.	X	x	x
ATMFee	Automated Teller Machine Fee.	X	x	x
Withhold	Withholding. Government required (or voluntary) withholding of interest paid, typically for a deposit account.	X		
Garnish	Garnishment. Funds withdrawn by court order.	X	x	x
PrepayPenalty	Prepayment Penalty.	X	x	x
Orig	Original Balance. The original balance of a loan or deposit (time) account.	X		
Redemption	Redemption amount.	X		
AggrBalAdj	Aggregate Balance Adjustment.	X		

IntEarn	Interest Earned.	X		x
IntPaid	Interest Paid.	X		x
IntAccr	Interest Accrued.	X		x
Escrow	Escrow Balance.	X		
AdjDb	Debit Adjustment	X	x	x
AdjCr	Credit Adjustment	X	x	x
DepSubjToFloat	Deposit Subject to Float.	X		
EscrowDb	Escrow Debit.	X	x	x
EscrowCr	Escrow Credit.	X	x	x
LockboxDep	Lock Box Deposit.	X	x	x
LockboxDepAdj	Lock Box Deposit Adjustment.	X	x	x
CashCr	Cash Credit.	X	x	x
CashDb	Cash Debit.	X	x	x
ChkCr	Check Credit.	X	x	x
ChkDb	Check Debit.	X	x	x
DrftCr	Draft Credit.	X	x	x
DrftDb	Draft Debit.	X	x	x
ATMCr	Automated Teller Machine Credit.	X	x	x
ATMdb	Automated Teller Maching Debit.	X	x	x
OtherCr	Other Credit.	X	x	x
OtherDb	Other Debit.	X	x	x
LoanProceeds	Loan Proceeds.	X	x	x
CashLtrCr	Cash Letter Credit.	X	x	x
CashLtrAdj	Cash Letter Adjustment.	X	x	x
InMoneyXfr	Incoming Money Transfer.	X	x	x
OutMoneyXfr	Outgoing Money Transfer.	X	x	x
AutoXfrCr	Automatic Transfer Credit.	X	x	x
AutoXfrDb	Automatic Transfer Debit.	X	x	x
IntlMoneyXfrCr	International Money Transfer Credit.	X	x	x
IntlMoneyXfrDb	International Money Transfer Debit.	X	x	x
IntlCr	International Credit.	X	x	x
IntlDb	International Debits.	X	x	x
LtrCr	Letter of Credit.	X	x	x
CommissionPd	Commission Paid.	X	x	x

Dividends	Dividends.	X	x	x
OpenLedg	Opening Ledger Balance .	X		
ClosLedg	Closing Ledger Balance	X		
MinLedg	Minimum Ledger Balance.	X		
AvgLedg	Average Ledger Balance.	X		
AvgOpenLedg	Average Opening Ledger Balance.	X		
AvgClosLedg	Average Closing Ledger Balance.	X		
AvgOpenAvail	Average Opening Available Balance.	X		
AvgClosAvail	Average Closing Available Balance.	X		
AvgOpenClr	Average Opening Cleared Balance.	X		
AvgClosClr	Average Closing Cleared Balance.	X		
OpenOutstndng	Opening Outstanding Balance.	X		
ClosOutstndng	Closing Outstanding Balance.	X		
PendAuthAmt	Pending Authorization Amount.	X	x	x
TaxPd	Taxes Paid.	X	x	x
Payment	Payment.	X	x	x
Principal	Principal balance.	X		
InitFund	Initial Funds.	X		
CashAdv	Cash Advance.	X	x	x
Payoff	Payoff.	X		
Passbk	Passbook balance.	X		
CreditLimit	Credit Limit.	X		
CashLine	Cash Line.	X		
OutstndngCashAdv	Outstanding Cash Advances.	X	x	x
CashAvail	Cash Available.	X		
LastStmntBal	Last Statement Balance.	X		
CashDepAvail	Cash Deposit Available. The possible amount of cash that can be immediately credited to the account.	X		
ChkDepAvail	Check Deposit Available.	X		
	Envelope Deposit			

EnvDepAvail	Available.	X		
RwdReg	Regular Rewards	X	X	X
RwdBonus	Bonus Rewards	X	X	X
RwdExpiredReg	Regular Expired Rewards	X	X	X
RwdExpiredBonus	Bonus Expired Rewards	X	X	X
RwdRedeemed	Redeemed Rewards	X	X	X
RwdReinstateReg	Reinstated Regular Rewards	X	X	X
RwdReinstateBonus	Reinstated Bonus Rewards	X	X	X
RwdTransfer	Transferred Rewards	X	X	X
AnnualFee	Annual Fee	X	X	X
AnnualFeeCr	Annual Fee Credit	X	X	X
Disputes	Disputes	X	X	X
ExtCredit	Extended Credit	X	X	X
InCollections	In Collections	X	X	X
IntCashAdv	Interest Cash Advance	X	X	X
IntPurch	Interest Purchase	X	X	X
GovCharge	Government Charges	X	X	X
LateFee	Late Fee	X	X	X
OutstndngPmtAth	Outstanding Payment Authorizations	X	X	X
OutstndngPurch	Outstanding Purchase Authorizations	X	X	X
PreapprovedLimit	Preapproved Credit Limit	X	X	X
Purch	Purchase Balance	X	X	X
WriteOff	Write Off	X	X	X
DelqTotal	The total account delinquency.	X	X	X
DelqCycle1	The total cycle 1 or 0-30 days of delinquency.	X	X	
DelqCycle2	The total cycle 2 or 31-60 days of delinquency.	X	X	
DelqCycle3	The total cycle 3 or 61-90 days of delinquency.	X	X	
DelqCycle4	The total cycle 4 or 91-120 days of delinquency.	X	X	
DelqCycle5	The total cycle 5 or 121-150 days of delinquency.	X	X	
DelqCycle6	The total cycle 6 or 151-180 days of delinquency.	X	X	
DelqCycle7	The total cycle 7 or 181-210 days of delinquency.	X	X	
DelqCycle8	The total cycle 8+ or 211+ days of delinquency.	X	X	

Datatype: Open Enum

## Enumerated Values

Value	Description	Is default

Credit	Credit	N
Debit	Debit	N
NSF	NSF	N
IntlCr	IntlCr	N
IntlDb	IntlDb	N
Overdraft	Overdraft	N
Overlimit	Overlimit	N
Interest	Interest	N
PastDue	PastDue	N
Fee	Fee	N
NSFFee	NSFFee	N
ATMFee	ATMFee	N
Withhold	Withhold	N
Garnish	Garnish	N
PrepayPenalty	PrepayPenalty	N
Orig	Orig	N
Redemption	Redemption	N
AggrBalAdj	AggrBalAdj	N
IntEarn	IntEarn	N
IntPaid	IntPaid	N
IntAccr	IntAccr	N
Escrow	Escrow	N
AdjCr	AdjCr	N
DepSubjToFloat	DepSubjToFloat	N
AdjDb	AdjDb	N
EscrowDb	EscrowDb	N
EscrowCr	EscrowCr	N
LockbxDep	LockbxDep	N
LockbxDepAdj	LockbxDepAdj	N
CashCr	CashCr	N
CashDb	CashDb	N
ChkCr	ChkCr	N
ChkDb	ChkDb	N
DrftCr	DrftCr	N
DrftDb	DrftDb	N
ATMCr	ATMCr	N
ATMdb	ATMdb	N
OthCr	OthCr	N
OtherDb	OtherDb	N
LoanProceeds	LoanProceeds	N
CashLtrCr	CashLtrCr	N
CashLtrAdj	CashLtrAdj	N
InMnXfr	InMnXfr	N
OutMnXfr	OutMnXfr	N
AutoXfrCr	AutoXfrCr	N
AuthXfrDb	AuthXfrDb	N
IntlMnyXfrCr	IntlMnyXfrCr	N

IntlMnyXfrDb	IntlMnyXfrDb	N
LtrCr	LtrCr	N
CommissionPd	CommissionPd	N
Dividends	Dividends	N
AvgLedg	AvgLedg	N
OpenLedg	OpenLedg	N
ClosLedg	ClosLedg	N
MinLedg	MinLedg	N
AvgOpenLedg	AvgOpenLedg	N
AvgOpenAvail	AvgOpenAvail	N
AvgClosLedg	AvgClosLedg	N
AvgClosAvail	AvgClosAvail	N
AvgOpenClr	AvgOpenClr	N
AvgClosClr	AvgClosClr	N
OpenOutstndng	OpenOutstndng	N
ClosOutstndng	ClosOutstndng	N
PendAuthAmt	PendAuthAmt	N
TaxPd	TaxPd	N
Payment	Payment	N
Principal	Principal	N
InitFund	InitFund	N
CashAdv	CashAdv	N
Other	Other	Y
Payoff	Payoff	N
Passbk	Passbk	N
CreditLimit	CreditLimit	N
CashLine	CashLine	N
OutstndngCashAdv	OutstndngCashAdv	N
CashAvail	CashAvail	N
LastStmtBal	LastStmtBal	N
CashDepAvail	CashDepAvail	N
ChkDepAvail	ChkDepAvail	N
EnvDepAvail	EnvDepAvail	N
RwdReg	RwdReg	N
RwdBonus	RwdBonus	N
RwdExpiredReg	RwdExpiredReg	N
RwdExpiredBonus	RwdExpiredBonus	N
RwdRedeemed	RwdRedeemed	N
RwdReinstateReg	RwdReinstateReg	N
RwdReinstateBonus	RwdReinstateBonus	N
RwdTransfer	RwdTransfer	N
AnnualFee	Annual Fee	N
AnnualFeeCr	Annual Fee Credit	N
Disputes	Disputes	N
ExtCredit	Extended Credit	N
GovCharge	Government Charges	N
InCollections	In Collections	N

IntCashAdv	Interest Cash Advance	N
IntPurch	Interest Purchase	N
LateFee	Late Fee	N
OutstndngPmtAth	Outstanding Payment Authorizations	N
OutstndngPurch	Outstanding Purchase Authorizations	N
PreapprovedLimit	Preapproved Credit Limit	N
Purch	Purchase Balance	N
WriteOff	Write Off	N
DelqTotal	The total account delinquency.	N
DelqCycle1	The total cycle 1 or 0-30 days of delinquency.	N
DelqCycle2	The total cycle 2 or 31-60 days of delinquency.	N
DelqCycle3	The total cycle 3 or 61-90 days of delinquency.	N
DelqCycle4	The total cycle 4 or 91-120 days of delinquency.	N
DelqCycle5	The total cycle 5 or 121-150 days of delinquency.	N
DelqCycle6	The total cycle 6 or 151-180 days of delinquency.	N
DelqCycle7	The total cycle 7 or 181-210 days of delinquency.	N
DelqCycle8	The total cycle 8+ or 211+ days of delinquency.	N
Statement	Statement	N

---

### Account Application Identifier <AcctApplIdent>

Identifier of the Application that was submitted to create an account.

Datatype: **NC-36**

---

### Account Audit Request <AcctAudRq>

Account Audit Request

See the matching response message [AcctAudRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header

<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
<a href="#">DtRange</a>	Aggregate	Optional	Date Range
<a href="#">Method</a>	Closed Enum	Optional Repeating	Method Valid values are limited to: Add, Advise, AuthMod, Can, Del, Mod, StatusMod
<a href="#">AcctKeys</a>	Aggregate	Optional Repeating	Account Keys Aggregate
end Aggregate			

---

### Account Audit Response <AcctAudRs>

Account Audit Response

See the matching request message [AcctAudRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">AcctRsMsg</a>	Aggregate	Optional Repeating	Account Response Messages Aggregate
end-block			
end Aggregate			

---

### Account Balance <AcctBal>

Supports attributes with respect to all the balances a financial institution account may carry (ex: ledger, available, collected, etc.)

Datatype: **Aggregate**



Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">BalType</a>	Aggregate	Required	Balance Type
<a href="#">CurAmt</a>	Aggregate	Required	Currency Amount
<a href="#">ExpDt</a>	DateTime	Optional	Expiration Date
<a href="#">Desc</a>	C-80	Optional	Description
end Aggregate			

---

### Account Currency <AcctCur>

Account Currency. Currency of the account. This may be necessary to uniquely identify the account, as many countries allow for a single account to contain multiple subaccounts, each in a different currency.

Datatype: **NC-22**

---

### Account Delete Request <AcctDelRq>

Account Delete Request

See the matching response message [AcctDelRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">AcctKeys</a>	Aggregate	Required	Account Keys Aggregate
end Aggregate			

---

## Account Delete Response <AcctDelRs>

Account Delete Response

See the matching request message [AcctDelRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">AcctRec</a>	Aggregate	Required	Account Record
<a href="#">AcctStatusRec</a>	Aggregate	Required	Account Status Record
end-xor			
end-block			
end Aggregate			

---

## Account Environment Aggregate <AcctEnvr>

Account Environment Aggregate

Extends: [BaseEnvr](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseEnvr			
<a href="#">CreatedDt</a>	DateTime	Required	Created Date/Time. The date/time the object was created.
<a href="#">CreateRefIdent</a>	NC-36	Optional	An identifier used to uniquely identify the creation of this object to the system that created the object. This will usually be a link to reference information used in creating the object.
	DateTime		

<a href="#">ClientCreateDt</a>		Optional	The created date/time as reported by the client. This can vary from the object creation date/time due to time zone differences, communication delays, etc
<a href="#">ClientBusinessDt</a>	DateTime	Optional	The date/time that the client recorded this object for operational purposes. This date/time will often be used to manage the availability of information or funds.
<a href="#">LastUpdateDt</a>	DateTime	Optional	Last update Date/Time. The date/time the object was created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LastUpdateRqUID</a>	UUID	Optional	Last update RqUID. The RqUID from the message that resulted in the object being created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LoginName</a>	C-40	Optional	The login name (or Id) of the individual that authorized this object to be created. This is typically used when the object is created on behalf of its owner by someone who is not normally represented as a Party (i.e., an employee or agent).
<a href="#">PartyKeys</a>	Aggregate	Optional	Reference to the Party that this object is owned by or authorized by.
<a href="#">CardKeys</a>	Aggregate	Optional	This is dependent on Card proposal. Currently this is implemented as the CardLogicalData aggregate.
<a href="#">PassbkKeys</a>	Aggregate	Optional	Currently PassbkAcceptData.
<a href="#">NetworkTrnData</a>	Aggregate	Optional	Network Transaction Information. Identification and location of the terminal from which the message originates.
<a href="#">ServerTerminalSeqNum</a>	NC-36	Optional	Server Terminal Sequence Number. A terminal sequence number generated by the server to identify this object. This number is used in ATM and POS environments to uniquely identify transactions (with terminal name and date) for transaction management.
<a href="#">PointOfServiceData</a>	Aggregate	Optional	The Point of Service Data. This aggregate contains information about the environment in which this message originated.
<a href="#">ClientTerminalSeqNum</a>	NC-36	Optional	Client Terminal Sequence Number. A terminal sequence number generated by the client to identify this object. This number is used in ATM, POS, Branch, Call Center and Teller

		environments to uniquely identify transactions at the client (with terminal name and date). This number is often required when requesting supporting documentation related to a customer transaction.
end Elements from BaseEnvr		
begin Aggregate		
end Aggregate		

---

### Account Format <AcctFormat>

The definition and behavior of "Regular Expression" is per IEEE Std 1003.2-1992 (POSIX.2).

Datatype: **NC-1024**

---

### Account Hash Value <AcctHashValue>

Checksum, typically, for international banks.

Datatype: **NC-22**

---

### Account Help Message <AcctHelpMsg>

Human-readable message that the client may display to assist the customer in entering his or her account number.

Datatype: **C-unbound**

---

## Account Hold Add Message <AcctHoldAddRq>

Account Hold Add Message

See the matching response message [AcctHoldAddRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">AcctHoldInfo</a>	Aggregate	Required	Account Hold Information Aggregate
end Aggregate			

---

## Account Hold Add Response <AcctHoldAddRs>

Account Hold Add Response

See the matching request message [AcctHoldAddRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">AcctHoldRec</a>	Aggregate	Required	Account Hold Record
<a href="#">AcctHoldStatusRec</a>	Aggregate	Required	Account Hold Status Record
end-xor			
end-block			
end Aggregate			

---

## Account Hold Delete Request <AcctHoldDelRq>

Account Hold Delete Request

See the matching response message [AcctHoldDelRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">AcctHoldKeys</a>	Aggregate	Required	Account Hold Keys Aggregate
end Aggregate			

---

## Account Hold Delete Response <AcctHoldDelRs>

Account Hold Delete Response

See the matching request message [AcctHoldDelRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">AcctHoldRec</a>	Aggregate	Required	Account Hold Record
<a href="#">AcctHoldStatusRec</a>	Aggregate	Required	Account Hold Status Record
end-xor			

end-block

end Aggregate

## Account Hold Environment Aggregate <AcctHoldEnvr>

Account Hold Environment Aggregate

Extends: [BaseEnvr](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseEnvr			
<a href="#">CreatedDt</a>	DateTime	Required	Created Date/Time. The date/time the object was created.
<a href="#">CreateRefIdent</a>	NC-36	Optional	An identifier used to uniquely identify the creation of this object to the system that created the object. This will usually be a link to reference information used in creating the object.
<a href="#">ClientCreateDt</a>	DateTime	Optional	The created date/time as reported by the client. This can vary from the object creation date/time due to time zone differences, communication delays, etc
<a href="#">ClientBusinessDt</a>	DateTime	Optional	The date/time that the client recorded this object for operational purposes. This date/time will often be used to manage the availability of information or funds.
<a href="#">LastUpdateDt</a>	DateTime	Optional	Last update Date/Time. The date/time the object was created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LastUpdateRqUID</a>	UUID	Optional	Last update RqUID. The RqUID from the message that resulted in th object being created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LoginName</a>	C-40	Optional	The login name (or Id) of the individual that authorized this object to be created. This is typically used when the object is created on behalf of its owner by someone who is not normally represented as a Party (i.e., an employee or agent).

<a href="#">PartyKeys</a>	Aggregate	Optional	Reference to the Party that this object is owned by or authorized by.
<a href="#">CardKeys</a>	Aggregate	Optional	This is dependent on Card proposal. Currently this is implemented as the CardLogicalData aggregate.
<a href="#">PassbkKeys</a>	Aggregate	Optional	Currently PassbkAcceptData.
<a href="#">NetworkTrnData</a>	Aggregate	Optional	Network Transaction Information. Identification and location of the terminal from which the message originates.
<a href="#">ServerTerminalSeqNum</a>	NC-36	Optional	Server Terminal Sequence Number. A terminal sequence number generated by the server to identify this object. This number is used in ATM and POS environments to uniquely identify transactions (with terminal name and date) for transaction management.
<a href="#">PointOfServiceData</a>	Aggregate	Optional	The Point of Service Data. This aggregate contains information about the environment in which this message originated.
<a href="#">ClientTerminalSeqNum</a>	NC-36	Optional	Client Terminal Sequence Number. A terminal sequence number generated by the client to identify this object. This number is used in ATM, POS, Branch, Call Center and Teller environments to uniquely identify transactions at the client (with terminal name and date). This number is often required when requesting supporting documentation related to a customer transaction.
end Elements from BaseEnvr			
begin Aggregate			
end Aggregate			

---

### Account Hold Identifier <AcctHoldId>

Account Hold Identifier

Datatype: **Identifier**

---



## Alternate Account Hold Identifier <AcctHoldIdent>

Alternate identifier of the account hold typically assigned by the server.

Datatype: **NC-36**

---

## Account Hold Information Aggregate <AcctHoldInfo>

Account Hold Information Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">AcctRef</a>	Aggregate	Required	Account Reference Aggregate
<a href="#">HoldType</a>	Open Enum	Required	Hold Type  Valid values include: Check, Collection, ContingentLiability, CourtOrder, Pledge
begin-or		Required	
<a href="#">CurAmt</a>	Aggregate	Optional	The amount of hold to be placed on the account. If sent in an AcctHoldAddRq with a HoldPercent also provided, the CurAmt may be recalculated by the server based on the HoldPercent value.
begin-block		Optional	
<a href="#">HoldPercent</a>	Decimal	Required	Percentage of secured account balance to be held.
<a href="#">PercentBalType</a>	Aggregate	Optional	Percentage Balance Type
end-block			
end-or			
<a href="#">SecuredAcctRef</a>	Aggregate	Optional	Secured Account Reference
<a href="#">HoldReason</a>	C-80	Optional	Hold Reason
<a href="#">ExpDt</a>	DateTime	Optional	Expiration date of the account hold. If sent in an AcctHoldAddRq with a Term also provided, the expiration date may be recalculated by the server based on the Term value.
<a href="#">Term</a>	Aggregate	Optional	The Term for a deposit or credit account.
<a href="#">ChkNum</a>	NC-12	Optional	Check Number
<a href="#">EffDt</a>	DateTime	Optional	Effective Date Time

<a href="#">ReviewFrequency</a>	Aggregate	Optional	Review Frequency
<a href="#">LastReviewDt</a>	Date	Optional	Last Review Date
<a href="#">Memo</a>	C-255	Optional	Memo
<a href="#">AcctHoldIdent</a>	NC-36	Optional	Alternate Account Hold Identifier
end Aggregate			

---

### Account Hold Inquiry Request <AcctHoldInqRq>

Account Hold Inquiry Request

See the matching response message [AcctHoldInqRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">DocCtrlIn</a>	Aggregate	Optional	Document Control Input
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
begin-xor		Optional Repeating	
<a href="#">AcctHoldSel</a>	Aggregate	Required	Account Hold Selection Aggregate
<a href="#">RecSelect</a>	IfxPath	Required	Record Select
end-xor			
end Aggregate			

---

### Account Hold Inquiry Response <AcctHoldInqRs>

Account Hold Inquiry Response

See the matching request message [AcctHoldInqRq](#)

Datatype: **Aggregate**

---

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">DocCtrlOut</a>	Aggregate	Optional	Document Control Output
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">AcctHoldRec</a>	Aggregate	Required Repeating	Account Hold Record
end-block			
end Aggregate			

---

### Account Hold Keys Aggregate <AcctHoldKeys>

Account Hold Keys Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
begin-xor		Required	
<a href="#">AcctHoldId</a>	Identifier	Required	Account Hold Identifier
begin-block		Required	
<a href="#">AcctKeys</a>	Aggregate	Required	Account Keys Aggregate
<a href="#">HoldType</a>	Open Enum	Optional	Hold Type  Valid values include: Check, Collection, ContingentLiability, CourtOrder, Pledge
<a href="#">AcctHoldIdent</a>	NC-36	Optional	Alternate Account Hold Identifier
<a href="#">SecuredAcctKeys</a>	Aggregate	Optional	Secured Account Keys
<a href="#">EffDt</a>	DateTime	Optional	Effective Date Time
<a href="#">ChkNum</a>	NC-12	Optional	Check Number
end-block			
end-xor			

end Aggregate

---

### Account Hold Modify Request <AcctHoldModRq>

Account Hold Modify Request

See the matching response message [AcctHoldModRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">AcctHoldKeys</a>	Aggregate	Required	Account Hold Keys Aggregate
begin-block		Required Repeating	
<a href="#">AcctHoldInfo</a>	Aggregate	Required	Account Hold Information Aggregate
begin-xor		Optional Repeating	
<a href="#">DelElements</a>	lfxPath	Required	An lfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to delete. It is an error if one attempts to delete Required fields.
<a href="#">UpdElements</a>	lfxPath	Required	An lfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to update. The new value of the updated element is in the accompanying xxxInfo aggregate.
<a href="#">NewElements</a>	lfxPath	Required	An lfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to add. The new value of the new elements is in the accompanying xxxInfo aggregate.
end-xor			
end-block			
end Aggregate			

---

### Account Hold Modify Response <AcctHoldModRs>

## Account Hold Modify Response

See the matching request message [AcctHoldModRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">AcctHoldRec</a>	Aggregate	Required	Account Hold Record
<a href="#">AcctHoldStatusRec</a>	Aggregate	Required	Account Hold Status Record
end-xor			
end-block			
end Aggregate			

---

## Account Hold Record <AcctHoldRec>

Account Hold Record

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">AcctHoldId</a>	Identifier	Required	Account Hold Identifier
<a href="#">AcctHoldInfo</a>	Aggregate	Required	Account Hold Information Aggregate
<a href="#">AcctHoldEnvr</a>	Aggregate	Optional	Account Hold Environment Aggregate
<a href="#">AcctHoldStatus</a>	Aggregate	Required	Account Hold Status Aggregate
end Aggregate			

---

## Account Hold Reference Aggregate <AcctHoldRef>

Account Hold Reference Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">AcctHoldKeys</a>	Aggregate	Required	Account Hold Keys Aggregate
<a href="#">AcctHoldRec</a>	Aggregate	Required	Account Hold Record
<a href="#">AcctHoldInfo</a>	Aggregate	Required	Account Hold Information Aggregate
end-xor			
end Aggregate			

---

## Account Hold Selection Aggregate <AcctHoldSel>

Account Hold Selection Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required Repeating	
<a href="#">AcctHoldKeys</a>	Aggregate	Required	Account Hold Keys Aggregate
begin-block		Required	
<a href="#">AcctKeys</a>	Aggregate	Optional	Account Keys Aggregate
<a href="#">HoldType</a>	Open Enum	Optional	Hold Type  Valid values include: Check, Collection, ContingentLiability, CourtOrder, Pledge
<a href="#">ChkNumRange</a>	Aggregate	Optional	Check Number Range
<a href="#">SelectDtRange</a>	Aggregate	Optional	Identifies which date and date range to be used in the selection criteria
<a href="#">CurAmtRange</a>	Aggregate	Optional	Currency Amount Range
	Aggregate		

<a href="#">SecuredAcctKeys</a>		Optional	Secured Account Keys
end-block			
end-xor			
end Aggregate			

---

### Account Hold Status Aggregate <AcctHoldStatus>

Account Hold Status Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">AcctHoldStatusCode</a>	Open Enum	Required	Account Hold Status Code Valid values include: Active, Deleted, Expired
<a href="#">StatusDesc</a>	C-255	Optional	Status Description
<a href="#">EffDt</a>	DateTime	Optional	Effective Date Time
<a href="#">StatusModBy</a>	Open Enum	Optional	Status Modified By Valid values include: BPP, BPPSR, BSP, BPSR, CPP, CPPSR, CSP, CSPSR, Customer, FI, PSP
end Aggregate			

---

### Account Hold Status Code <AcctHoldStatusCode>

Account Hold Status Code

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Active	Accthold is active.	N
Deleted	Accthold was deleted.	N

Expired	Accthold expired.	N
---------	-------------------	---

---

### Account Hold Status Inquiry Request <AcctHoldStatusInqRq>

Account Hold Status Inquiry Request

See the matching response message [AcctHoldStatusInqRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
begin-xor		Optional Repeating	
<a href="#">AcctHoldSel</a>	Aggregate	Required	Account Hold Selection Aggregate
<a href="#">RecSelect</a>	IfxPath	Required	Record Select
end-xor			
end Aggregate			

---

### Account Hold Status Inquiry Response <AcctHoldStatusInqRs>

Account Hold Status Inquiry Response

See the matching request message [AcctHoldStatusInqRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier



<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">AcctHoldStatusRec</a>	Aggregate	Optional Repeating	Account Hold Status Record
end-block			
end Aggregate			

---

### Account Hold Status Modify Request <AcctHoldStatusModRq>

Account Hold Status Modify Request

See the matching response message [AcctHoldStatusModRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">AcctHoldKeys</a>	Aggregate	Required	Account Hold Keys Aggregate
<a href="#">AcctHoldStatus</a>	Aggregate	Required	Account Hold Status Aggregate
end Aggregate			

---

### Account Hold Status Modify Response <AcctHoldStatusModRs>

Account Hold Status Modify Response

See the matching request message [AcctHoldStatusModRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	

<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">AcctHoldStatusRec</a>	Aggregate	Required	Account Hold Status Record
end-block			
end Aggregate			

---

### Account Hold Status Record <AcctHoldStatusRec>

Account Hold Status Record

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">AcctHoldId</a>	Identifier	Required	Account Hold Identifier
<a href="#">AcctHoldStatus</a>	Aggregate	Required	Account Hold Status Aggregate
end Aggregate			

---

### Account Identifier <AcctId>

Uniquely identifies an account held at a financial institution.

Datatype: **Identifier**

---

### Account Identifier Aggregate <AcctIdent>

Used as an alternative account identifier

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">AcctIdentType</a>	Open Enum	Optional	Account Identifier Type Valid values include: AcctNum, ConvertedAcctNum, RewardsPgmMemberId
<a href="#">AcctIdentValue</a>	NC-36	Optional	Account Identifier Value
end Aggregate			

---

**Account Identifier Type <AcctIdentType>**

Identifies the type of proprietary account identifier, if applicable.

Datatype: **Open Enum**

**Enumerated Values**

Value	Description	Is default
ConvertedAcctNum		N
AcctNum		N
RewardsPgmMemberId		N

---

**Account Identifier Value <AcctIdentValue>**

Value of the proprietary account identification.

Datatype: **NC-36**

---

**Account Information Aggregate <AcctlInfo>**

Account Information Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">CurCode</a>	Aggregate	Optional	Currency Code
<a href="#">Desc</a>	C-80	Optional	Description
<a href="#">AcctIdent</a>	Aggregate	Optional Repeating	Account Identifier Aggregate
<a href="#">BBAN</a>	NC-30	Optional	Basic Bank Account Identifier
<a href="#">IBAN</a>	NC-34	Optional	International Bank Account Number
<a href="#">UPIC</a>	NC-17	Optional	Universal Payment Identification Code
<a href="#">CLABE</a>	C-18	Optional	CLABE
<a href="#">FIData</a>	Aggregate	Optional	Financial Institution Data Aggregate
<a href="#">AcctUse</a>	Open Enum	Optional	Account Use  Valid values include: Business, Retail
begin-xor		Optional	
<a href="#">Term</a>	Aggregate	Required	The Term for a deposit or credit account.
<a href="#">MaturityDt</a>	Date	Required	Maturity Date
end-xor			
<a href="#">IntRateData</a>	Aggregate	Optional Repeating	Interest Rate Data
<a href="#">TaxWithholding</a>	Boolean	Optional	Tax Withholding Indicator
<a href="#">TaxCountry</a>	Aggregate	Optional	Tax Country
<a href="#">TaxProvince</a>	C-32	Optional	Tax Province
<a href="#">ProductIdent</a>	C-42	Optional	Product Identifier
<a href="#">DaysCall</a>	Long	Optional	Days Call
<a href="#">InitialAmount</a>	Aggregate	Optional	Initial Amount
<a href="#">AcctType</a>	Aggregate	Optional	Account Type
<a href="#">AcctTaxType</a>	Open Enum	Optional	Account Tax Type  Valid values include: Standard, TaxDeferred, TaxFree
<a href="#">AcctTitle</a>	C-255	Optional	Account Title
<a href="#">Memo</a>	C-255	Optional	Memo
<a href="#">OpenDt</a>	Date	Optional	Opening Date
<a href="#">ClosedDt</a>	Date	Optional	Closed Date
<a href="#">RelationshipMgr</a>	Aggregate	Optional Repeating	Relationship Manager
<a href="#">PostAddr</a>	Aggregate	Optional	Postal Address

<a href="#">MktgMaterial</a>	Aggregate	Optional Repeating	Marketing Material
<a href="#">AcctBal</a>	Aggregate	Optional Repeating	Account Balance
<a href="#">AcctPeriodData</a>	Aggregate	Optional Repeating	Account Period Data
<a href="#">GraceEndDt</a>	Date	Optional	Grace End Date
<a href="#">RemainingPmtCount</a>	Long	Optional	Number of Payments Remaining
<a href="#">AcctTrnLimit</a>	Aggregate	Optional Repeating	Account Transaction Limit
<a href="#">TaxWithheldData</a>	Aggregate	Optional Repeating	Tax Withheld Data
<a href="#">DepAcctData</a>	Aggregate	Optional	Deposit Account Data
<a href="#">CreditAcctData</a>	Aggregate	Optional	Credit Account Data Aggregate
<a href="#">AcctPricing</a>	Aggregate	Optional Repeating	Account Pricing
<a href="#">CorporateAcctData</a>	Aggregate	Optional	Corporate Account Data Aggregate
<a href="#">CorrespondDelivery</a>	Aggregate	Optional Repeating	Correspondence Delivery Aggregate
<a href="#">Segmentation</a>	Aggregate	Optional Repeating	Segmentation Aggregate
<a href="#">AcctApplIdent</a>	NC-36	Optional	Account Application Identifier
<a href="#">CampaignIdent</a>	NC-36	Optional	Campaign Identifier
<a href="#">Ownership</a>	C-42	Optional	Ownership Identifier
<a href="#">StmtTimeFrame</a>	Aggregate	Optional Repeating	The current and previous schedules for statement generation. When there are multiple occurrences the current schedule will be the first occurrence and the previous schedules will be in the subsequent occurrences with the most recent date first.
<a href="#">NextStmtData</a>	Aggregate	Optional Repeating	Next Statement Data Aggregate
end Aggregate			

---

### Account Inquiry Request <AcctInqRq>

Account Inquiry Request

See the matching response message [AcctInqRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">DocCtrlIn</a>	Aggregate	Optional	Document Control Input
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
begin-xor		Optional Repeating	
<a href="#">AcctSel</a>	Aggregate	Required	Account Selection Aggregate
<a href="#">RecSelect</a>	IfxPath	Required	Record Select
end-xor			
end Aggregate			

---

**Account Inquiry Response <AcctInqRs>**

Account Inquiry Response

See the matching request message [AcctInqRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">DocCtrlOut</a>	Aggregate	Optional	Document Control Output
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">AcctRec</a>	Aggregate	Required Repeating	Account Record
end-block			
end Aggregate			

## Account Keys Aggregate <AcctKeys>

Account Keys Aggregate

Extends: [BaseKeys](#)

Extended By: [FeeAcctKeys](#), [FromAcctKeys](#), [ParentAcctKeys](#),  
[RelAcctKeys](#), [SecuredAcctKeys](#), [ToAcctKeys](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseKeys			
end Elements from BaseKeys			
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
begin-xor		Required	
<a href="#">AcctId</a>	Identifier	Required	Account Identifier
begin-block		Optional	
begin-xor		Optional	
<a href="#">BBAN</a>	NC-30	Required	Basic Bank Account Identifier
<a href="#">IBAN</a>	NC-34	Required	International Bank Account Number
<a href="#">UPIC</a>	NC-17	Required	Universal Payment Identification Code
<a href="#">CLABE</a>	C-18	Required	CLABE
<a href="#">CardMagData</a>	Aggregate	Required	Card Magnetic Stripe Data
<a href="#">CardKeys</a>	Aggregate	Required	Card Keys Aggregate
<a href="#">CardChipData</a>	Aggregate	Required	Card Chip Data
<a href="#">AcctIdent</a>	Aggregate	Required	Account Identifier Aggregate
end-xor			
<a href="#">AcctType</a>	Aggregate	Optional	Account Type
<a href="#">CurCode</a>	Aggregate	Optional	Currency Code
<a href="#">FIIdentType</a>	Open Enum	Optional	Financial Institution Identifier Type  Valid values include: ABA, CHAPS, CHIPS, FedWire, SortCode, SWIFT
<a href="#">FIIdent</a>	NC-34	Optional	Financial Institution Identifier
<a href="#">BranchIdent</a>	NC-22	Optional	Branch Identifier
end-block			
end-xor			
end Aggregate			

---

## Account Mask <AcctMask>

Account Mask.

String describing the edit mask for the account number. The client uses the account mask, defined by the [Edit Mask identifier](#), to assist the user in entering the account number. Actual calculation and verification of account check digits is performed by the server.

Datatype: **NC-32**

---

## Account Modify Request <AcctModRq>

Account Modify Request

See the matching response message [AcctModRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">AcctKeys</a>	Aggregate	Required	Account Keys Aggregate
begin-block		Required Repeating	
<a href="#">AcctInfo</a>	Aggregate	Required	Account Information Aggregate
begin-xor		Required Repeating	
<a href="#">DelElements</a>	IfxPath	Required	An IfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to delete. It is an error if one attempts to delete Required fields.
<a href="#">UpdElements</a>	IfxPath	Required	An IfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to update. The new value of the updated element is in the accompanying xxxInfo aggregate.



<a href="#">NewElements</a>	IfxPath	Required	An IfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to add. The new value of the new elements is in the accompanying xxxInfo aggregate.
end-xor			
end-block			
end Aggregate			

---

### Account Modify Response <AcctModRs>

Account Modify Response

See the matching request message [AcctModRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">AcctRec</a>	Aggregate	Required	Account Record
<a href="#">AcctStatusRec</a>	Aggregate	Required	Account Status Record
end-xor			
end-block			
end Aggregate			

---

### Accounts Payable Account Identifier <AcctPayAcct>

Accounts Payable Account identifier. Vendor Account Number assigned by Customer (Payer). This is the payer's Accounts Payable account number for reconciliation.

Datatype: **Identifier**

---

**Account PayOff Add Message <AcctPayOffAddRq>**

Account PayOff Add Message

See the matching response message [AcctPayOffAddRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">AcctPayOffInfo</a>	Aggregate	Required	Account PayOff Information Aggregate
end Aggregate			

---

**Account PayOff Add Response <AcctPayOffAddRs>**

Account PayOff Add Response

See the matching request message [AcctPayOffAddRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	

<a href="#">AcctPayOffRec</a>	Aggregate	Required	Account PayOff Record
<a href="#">AcctPayOffStatusRec</a>	Aggregate	Required	Account PayOff Status Record
end-xor			
end-block			
end Aggregate			

## Account PayOff Environment Aggregate <AcctPayOffEnvr>

Account PayOff Environment Aggregate

Extends: [BaseEnvr](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseEnvr			
<a href="#">CreatedDt</a>	DateTime	Required	Created Date/Time. The date/time the object was created.
<a href="#">CreateRefIdent</a>	NC-36	Optional	An identifier used to uniquely identify the creation of this object to the system that created the object. This will usually be a link to reference information used in creating the object.
<a href="#">ClientCreateDt</a>	DateTime	Optional	The created date/time as reported by the client. This can vary from the object creation date/time due to time zone differences, communication delays, etc
<a href="#">ClientBusinessDt</a>	DateTime	Optional	The date/time that the client recorded this object for operational purposes. This date/time will often be used to manage the availability of information or funds.
<a href="#">LastUpdateDt</a>	DateTime	Optional	Last update Date/Time. The date/time the object was created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LastUpdateRqUID</a>	UUID	Optional	Last update RqUID. The RqUID from the message that resulted in th object being created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LoginName</a>	C-40	Optional	The login name (or Id) of the individual that authorized this object to be

			created. This is typically used when the object is created on behalf of its owner by someone who is not normally represented as a Party (i.e., an employee or agent).
<a href="#">PartyKeys</a>	Aggregate	Optional	Reference to the Party that this object is owned by or authorized by.
<a href="#">CardKeys</a>	Aggregate	Optional	This is dependent on Card proposal. Currently this is implemented as the CardLogicalData aggregate.
<a href="#">PassbkKeys</a>	Aggregate	Optional	Currently PassbkAcceptData.
<a href="#">NetworkTrnData</a>	Aggregate	Optional	Network Transaction Information. Identification and location of the terminal from which the message originates.
<a href="#">ServerTerminalSeqNum</a>	NC-36	Optional	Server Terminal Sequence Number. A terminal sequence number generated by the server to identify this object. This number is used in ATM and POS environments to uniquely identify transactions (with terminal name and date) for transaction management.
<a href="#">PointOfServiceData</a>	Aggregate	Optional	The Point of Service Data. This aggregate contains information about the environment in which this message originated.
<a href="#">ClientTerminalSeqNum</a>	NC-36	Optional	Client Terminal Sequence Number. A terminal sequence number generated by the client to identify this object. This number is used in ATM, POS, Branch, Call Center and Teller environments to uniquely identify transactions at the client (with terminal name and date). This number is often required when requesting supporting documentation related to a customer transaction.
end Elements from BaseEnvr			
begin Aggregate			
end Aggregate			

---

### Account PayOff Identifier <AcctPayOffId>

Account PayOff Identifier

Datatype: **Identifier**

---

**Account PayOff Information Aggregate <AcctPayOffInfo>**

Account PayOff Information Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">AcctKeys</a>	Aggregate	Required	Account Keys Aggregate
<a href="#">PayOffEffDt</a>	Date	Required	Account PayOff Effective Date
<a href="#">PayOffRequestDt</a>	DateTime	Optional	Account PayOff Request Date
begin-block		Optional Repeating	
<a href="#">PayOffAmtType</a>	Open Enum	Optional	PayOff Amount Type  Valid values include: AnnualFee, AnnualFeeCr, CashAdv, ChkDb, CommitmentFee, Credit, CreditIntEarn, Disputes, Escrow, ExtCredit, GovCharge, InCollections, InsuranceFee, IntAccr, IntAccrEscrow, IntCashAdv, Interest, IntPurch, LateFee, LoanFee, LockOut, OpenLedg, OtherFee, OutstndngCashAdv, OutstndngPmtAth, OutstndngPurch, Payments, PayOff, PayOffFee, PayOffFeeCr, PendAuthAmt, PrePayPenalty, Principal, Purch, TaxWithheld, UnAppliedFund, WriteOff
<a href="#">Amt</a>	Decimal	Optional	Amount
end-block			
<a href="#">AcctInfo</a>	Aggregate	Optional	Account Information Aggregate that may be present to provide a snapshot of the account data at the time of the request.
end Aggregate			

---

**Account PayOff Inquiry Request <AcctPayOffInqRq>**

Account PayOff Inquiry Request

See the matching response message [AcctPayOffInqRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">DocCtrlIn</a>	Aggregate	Optional	Document Control Input
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
begin-xor		Optional Repeating	
<a href="#">AcctPayOffSel</a>	Aggregate	Required	Account PayOff Selection Aggregate
<a href="#">RecSelect</a>	lfxPath	Required	Record Select
end-xor			
end Aggregate			

---

**Account PayOff Inquiry Response <AcctPayOffInqRs>**

Account PayOff Inquiry Response

See the matching request message [AcctPayOffInqRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">DocCtrlOut</a>	Aggregate	Optional	Document Control Output
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">AcctPayOffRec</a>	Aggregate	Required Repeating	Account PayOff Record
end-block			
end Aggregate			

---

## Account PayOff Keys Aggregate <AcctPayOffKeys>

Account PayOff Keys Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
begin-xor		Required	
<a href="#">AcctPayOffId</a>	Identifier	Required	Account PayOff Identifier
begin-block		Required	
<a href="#">AcctKeys</a>	Aggregate	Required	Account Keys Aggregate
<a href="#">PayOffEffDt</a>	Date	Required	Account PayOff Effective Date
<a href="#">PayOffRequestDt</a>	DateTime	Required	Account PayOff Request Date
end-block			
end-xor			
end Aggregate			

---

## Account PayOff Record <AcctPayOffRec>

Account PayOff Record

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">AcctPayOffId</a>	Identifier	Required	Account PayOff Identifier
<a href="#">AcctPayOffInfo</a>	Aggregate	Required	Account PayOff Information Aggregate
<a href="#">AcctPayOffEnvr</a>	Aggregate	Optional	Account PayOff Environment Aggregate
<a href="#">AcctPayOffStatus</a>	Aggregate	Required	Account PayOff Status Aggregate
end Aggregate			

---

## Account PayOff Reference Aggregate <AcctPayOffRef>

Account PayOff Reference Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">AcctPayOffKeys</a>	Aggregate	Required	Account PayOff Keys Aggregate
<a href="#">AcctPayOffRec</a>	Aggregate	Required	Account PayOff Record
<a href="#">AcctPayOffInfo</a>	Aggregate	Required	Account PayOff Information Aggregate
end-xor			
end Aggregate			

---

## Account PayOff Selection Aggregate <AcctPayOffSel>

Account PayOff Selection Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required Repeating	
<a href="#">AcctPayOffKeys</a>	Aggregate	Required	Account PayOff Keys Aggregate
begin-block		Required	
<a href="#">AcctKeys</a>	Aggregate	Optional	Account Keys Aggregate
<a href="#">DtRange</a>	Aggregate	Optional	The date range used to select the Payoff Effective Dates.
<a href="#">PrcDtRange</a>	Aggregate	Optional	The date range used to select the Payoff Request Dates.
end-block			
end-xor			



end Aggregate

## Account PayOff Status Aggregate <AcctPayOffStatus>

Account PayOff Status Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">AcctPayOffStatusCode</a>	Open Enum	Required	Account PayOff Status Code Valid values include: Active, Deleted, Expired, Rejected
<a href="#">StatusDesc</a>	C-255	Optional	Status Description
<a href="#">EffDt</a>	DateTime	Optional	Effective Date Time
<a href="#">ApprovalIdent</a>	NC-36	Optional	Approval Identifier
<a href="#">StatusModBy</a>	Open Enum	Optional	Status Modified By Valid values include: BPP, BPPSR, BSP, BSPSR, CPP, CPPSR, CSP, CSPSR, Customer, FI, PSP
end Aggregate			

## Account PayOff Status Code <AcctPayOffStatusCode>

The status of the account payoff quote.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Active	Active	Y
Expired	Expired	N
Deleted	Deleted	N
Rejected	Rejected	N

---

## Account PayOff Status Modify Request <AcctPayOffStatusModRq>

Account PayOff Status Modify Request

See the matching response message [AcctPayOffStatusModRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">AcctPayOffKeys</a>	Aggregate	Required	Account PayOff Keys Aggregate
<a href="#">AcctPayOffStatus</a>	Aggregate	Required	Account PayOff Status Aggregate
end Aggregate			

---

## Account PayOff Status Modify Response <AcctPayOffStatusModRs>

Account PayOff Status Modify Response

See the matching request message [AcctPayOffStatusModRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">AcctPayOffStatusRec</a>	Aggregate	Required	Account PayOff Status Record
end-block			

end Aggregate

### Account PayOff Status Record <AcctPayOffStatusRec>

Account PayOff Status Record

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">AcctPayOffId</a>	Identifier	Required	Account PayOff Identifier
<a href="#">AcctPayOffStatus</a>	Aggregate	Required	Account PayOff Status Aggregate
end Aggregate			

### Account Period Data <AcctPeriodData>

Provides summary of transaction information such as last deposit date, last maintenance activity date, YTD, NSF's, etc.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">AcctAmtType</a>	Open Enum	Required	Account Amount Type  Valid values include: AdjCr, AdjDb, AggrBalAdj, AnnualFee, AnnualFeeCr, ATMCr, ATMDb, ATMFee, AuthXfrDb, AutoXfrCr, AvgClosAvail, AvgClosClr, AvgClosLedg, AvgLedg, AvgOpenAvail, AvgOpenClr, AvgOpenLedg, CashAdv, CashAvail, CashCr, CashDb, CashDepAvail, CashLine, CashLtrAdj, CashLtrCr, ChkCr, ChkDb, ChkDepAvail, ClosLedg, ClosOutstndng, CommissionPd, Credit, CreditLimit, Debit, DelqCycle1, DelqCycle2, DelqCycle3, DelqCycle4, DelqCycle5, DelqCycle6, DelqCycle7, DelqCycle8, DelqTotal, DepSubjToFloat, Disputes, Dividends, DrftCr, DrftDb, EnvDepAvail, Escrow, EscrowCr, EscrowDb, ExtCredit, Fee,

			Garnish, GovCharge, InCollections, InitFund, InMnXfr, IntAccr, IntCashAdv, IntEarn, Interest, IntlCr, IntlDb, IntlMnyXfrCr, IntlMnyXfrDb, IntPaid, IntPurch, LastStmntBal, LateFee, LoanProceeds, LockbxDep, LockbxDepAdj, LtrCr, MinLedg, NSF, NSFFee, OpenLedg, OpenOutstndng, Orig, OthCr, Other, OtherDb, OutMnXfr, OutstndngCashAdv, OutstndngPmtAth, OutstndngPurch, Overdraft, Overlimit, Passbk, PastDue, Payment, Payoff, PendAuthAmt, PreapprovedLimit, PrepayPenalty, Principal, Purch, Redemption, RwdBonus, RwdExpiredBonus, RwdExpiredReg, RwdRedeemed, RwdReg, RwdReinstateBonus, RwdReinstateReg, RwdTransfer, Statement, TaxPd, Withhold, WriteOff Default Value: Other
<a href="#">AcctPeriodType</a>	Open Enum	Optional	Account Period Type Valid values include: CTD, LTD, MTD, PriorCycle, PriorMth, PriorYr, YTD
<a href="#">LastOccurInd</a>	Boolean	Optional	Last Occurance Indicator
<a href="#">EffDt</a>	DateTime	Optional	Effective Date Time
<a href="#">ExpDt</a>	DateTime	Optional	Expiration Date
<a href="#">Amt</a>	Decimal	Optional	Amount
<a href="#">Count</a>	Long	Optional	Count
<a href="#">LastOccuranceDt</a>	DateTime	Optional	Last Occurance Date
end Aggregate			

---

### Account Period Type <AcctPeriodType>

Account Period Type

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
CTD	Cycle to Date	Y
MTD		N
YTD		N

PriorYr		N
PriorMth		N
LTD	Life to Date	N
PriorCycle		N

---

### Account Pricing <AcctPricing>

This aggregate defines the pricing terms and conditions in effect for the account.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">PricingPlanIdent</a>	C-36	Optional	Pricing Plan Identifier
<a href="#">TimeFrame</a>	Aggregate	Optional	Time Frame
<a href="#">Fee</a>	Aggregate	Optional Repeating	Fee
<a href="#">PricingCode</a>	Aggregate	Optional Repeating	Pricing Code
<a href="#">PricingReason</a>	C-40	Optional	Pricing Reason
end Aggregate			

---

### Account Record <AcctRec>

Account Record

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">AcctId</a>	Identifier	Required	Account Identifier
<a href="#">AcctInfo</a>	Aggregate	Required	Account Information Aggregate
<a href="#">AcctEnvr</a>	Aggregate	Optional	Account Environment Aggregate

<a href="#">AcctStatus</a>	Aggregate	Required	Account Status Aggregate
end Aggregate			

---

### Account Reference Aggregate <AcctRef>

Account Reference Aggregate

Extended By: [CreditRtnAcctRef](#), [FromAcctRef](#), [IntDistAcctRef](#), [RelAcctRef](#), [SecuredAcctRef](#), [SubAcctRef](#), [ToAcctRef](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">AcctKeys</a>	Aggregate	Required	Account Keys Aggregate
<a href="#">AcctRec</a>	Aggregate	Required	Account Record
<a href="#">AcctInfo</a>	Aggregate	Required	Account Information Aggregate
end-xor			
end Aggregate			

---

### Account Relationship Name <AcctRelName>

An optional descriptive name assigned to the relationship.

Datatype: **C-96**

---

### AcctRelType <AcctRelType>

Account Relationship type. A field that represents relationship between accounts.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
IntDist	Interest Distribution	N
IntCalcBal	Interest Calculation Balance - The primary account's balance is virtually reduced by the related account's balance (or percentage thereof) before calculating the interest charge.	N
IntCalcAmt	Interest Calculation Amount - The primary account's calculated interest amount is reduced by the related account's accrued interest before applying the interest charge to the primary (typically a liability) account.	N
Overdraft	Overdraft	N
SweepIn	Sweep In. Sweep funds from related account into the primary account to restore a desired minimum balance.	N
SweepOut	Sweep excess funds from the primary account, for which a maximum balance amount is desired, to the related account.	N

---

### Account Restriction Message <AcctRestrictMsg>

Account Restriction Message.  
Human-readable description of any restrictions on who may sign up with this biller.

Datatype: **C-1024**

---

### Account Reversal Request <AcctRevRq>

Account Reversal Request

See the matching response message [AcctRevRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header

<a href="#">RevReasonCode</a>	Aggregate	Required	Reversal Reason Code
<a href="#">Desc</a>	C-80	Optional	Description
<a href="#">AcctRqMsg</a>	Aggregate	Required	Account Request Messages Aggregate
end Aggregate			

---

### Account Reversal Response <AcctRevRs>

Account Reversal Response

See the matching request message [AcctRevRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
end Aggregate			

---

### Account Request Messages Aggregate <AcctRqMsg>

Account Request Messages Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">AcctAddRq</a>	Aggregate	Required	Account Add Message
<a href="#">AcctModRq</a>	Aggregate	Required	Account Modify Request
<a href="#">AcctDelRq</a>	Aggregate	Required	
<a href="#">AcctInqRq</a>	Aggregate	Required	Account Inquiry Request
<a href="#">AcctAdviseRq</a>	Aggregate	Required	Account Advise Message



<a href="#">AcctAudRq</a>	Aggregate	Required	Account Audit Request
<a href="#">AcctSyncRq</a>	Aggregate	Required	Account Sync Request
<a href="#">AcctStatusModRq</a>	Aggregate	Required	Account Status Modify Request
<a href="#">AcctStatusInqRq</a>	Aggregate	Required	Account Status Inquiry Request
<a href="#">RevRqUID</a>	UUID	Required	Reversal Request Unique ID
end-xor			
end Aggregate			

---

### Account Response Messages Aggregate <AcctRsMsg>

Account Response Messages Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">MsgRecDt</a>	Timestamp	Optional	Audit Record Creation Date
begin-xor		Required	
<a href="#">AcctAddRs</a>	Aggregate	Required	Account Add Response
<a href="#">AcctModRs</a>	Aggregate	Required	Account Modify Response
<a href="#">AcctDelRs</a>	Aggregate	Required	
<a href="#">AcctRevRs</a>	Aggregate	Required	Account Reversal Response
<a href="#">AcctInqRs</a>	Aggregate	Required	Account Inquiry Response
<a href="#">AcctAdviseRs</a>	Aggregate	Required	Account Advise Response
<a href="#">AcctStatusModRs</a>	Aggregate	Required	Account Status Modify Response
<a href="#">AcctStatusInqRs</a>	Aggregate	Required	Account Status Inquiry Response
end-xor			
end Aggregate			

---

### Account Selection Aggregate <AcctSel>

Account Selection Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required Repeating	
<a href="#">AcctKeys</a>	Aggregate	Required	Account Keys Aggregate
end-xor			
end Aggregate			

---

**Account Status Aggregate <AcctStatus>**

Account Status Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">AcctStatusCode</a>	Open Enum	Required	Account Status Code  Valid values include: Abandoned, Active, ChargedOff, ChargeOffInProcess, Closed, Closing, Delinquent, Dormant, Escheat, Frozen, Funded, Inactive, NotAvail, NotFunded, Open, PaidOff, Terminated, Unredeemed
<a href="#">StatusDesc</a>	C-255	Optional	Status Description
<a href="#">EffDt</a>	DateTime	Optional	Effective Date Time
<a href="#">ApprovalIdent</a>	NC-36	Optional	Approval Identifier
<a href="#">StatusModBy</a>	Open Enum	Optional	Status Modified By  Valid values include: BPP, BPPSR, BSP, BPPSR, CPP, CPPSR, CSP, CSPSR, Customer, FI, PSP
end Aggregate			

---

**Account Status Code <AcctStatusCode>**

Account Status Code

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Open		N
Closed		N
Closing		N
Inactive		N
NotAvail		N
NotFunded		N
Funded		N
Dormant		N
Frozen		N
Active		N
PaidOff		N
Terminated		N
Escheat		N
ChargeOffInProgress		N
ChargedOff		N
Unredemed		N
Abandoned		N
Delinquent		N

---

### Account Status Inquiry Request <AcctStatusInqRq>

Account Status Inquiry Request

See the matching response message [AcctStatusInqRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
begin-xor		Optional	

		Repeating	
<a href="#">AcctSel</a>	Aggregate	Required	Account Selection Aggregate
<a href="#">RecSelect</a>	IfxPath	Required	Record Select
end-xor			
end Aggregate			

---

### Account Status Inquiry Response <AcctStatusInqRs>

Account Status Inquiry Response

See the matching request message [AcctStatusInqRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">AcctStatusRec</a>	Aggregate	Optional Repeating	Account Status Record
end-block			
end Aggregate			

---

### Account Status Modify Request <AcctStatusModRq>

Account Status Modify Request

See the matching response message [AcctStatusModRs](#)

Datatype: **Aggregate**

---

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">AcctKeys</a>	Aggregate	Required	Account Keys Aggregate
<a href="#">AcctStatus</a>	Aggregate	Required	Account Status Aggregate
end Aggregate			

---

### Account Status Modify Response <AcctStatusModRs>

Account Status Modify Response

See the matching request message [AcctStatusModRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">AcctStatusRec</a>	Aggregate	Required	Account Status Record
end-block			
end Aggregate			

---

### Account Status Record <AcctStatusRec>

Account Status Record

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			

<a href="#">SvcIdnt</a>	Aggregate	Optional	Service Identifier
<a href="#">AcctId</a>	Identifier	Required	Account Identifier
<a href="#">AcctStatus</a>	Aggregate	Required	Account Status Aggregate
end Aggregate			

---

### Account Statement Advise Message <AcctStmntAdviseRq>

Account Statement Advise Message

See the matching response message [AcctStmntAdviseRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
begin-xor		Required	
<a href="#">AcctStmntRec</a>	Aggregate	Required	Account Statement Record
<a href="#">AcctStmntStatusRec</a>	Aggregate	Required	Account Statement Status Record
end-xor			
end Aggregate			

---

### Account Statement Advise Response <AcctStmntAdviseRs>

Account Statement Advise Response

See the matching request message [AcctStmntAdviseRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	

<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">AcctStmtRec</a>	Aggregate	Required	Account Statement Record
<a href="#">AcctStmtStatusRec</a>	Aggregate	Required	Account Statement Status Record
end-xor			
end-block			
end Aggregate			

---

### Account Statement Environment Aggregate <AcctStmtEnvr>

Account Statement Environment Aggregate

Extends: [BaseEnvr](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseEnvr			
<a href="#">CreatedDt</a>	DateTime	Required	Created Date/Time. The date/time the object was created.
<a href="#">CreateRefldnt</a>	NC-36	Optional	An identifier used to uniquely identify the creation of this object to the system that created the object. This will usually be a link to reference information used in creating the object.
<a href="#">ClientCreateDt</a>	DateTime	Optional	The created date/time as reported by the client. This can vary from the object creation date/time due to time zone differences, communication delays, etc
<a href="#">ClientBusinessDt</a>	DateTime	Optional	The date/time that the client recorded this object for operational purposes. This date/time will often be used to manage the availability of information or funds.
<a href="#">LastUpdateDt</a>	DateTime	Optional	Last update Date/Time. The date/time the object was created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq

			and verified on a mod).
<a href="#">LastUpdateRqUID</a>	UUID	Optional	Last update RqUID. The RqUID from the message that resulted in th object being created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LoginName</a>	C-40	Optional	The login name (or Id) of the individual that authorized this object to be created. This is typically used when the object is created on behalf of its owner by someone who is not normally represented as a Party (i.e., an employee or agent).
<a href="#">PartyKeys</a>	Aggregate	Optional	Reference to the Party that this object is owned by or authorized by.
<a href="#">CardKeys</a>	Aggregate	Optional	This is dependent on Card proposal. Currently this is implemented as the CardLogicalData aggregate.
<a href="#">PassbkKeys</a>	Aggregate	Optional	Currently PassbkAcceptData.
<a href="#">NetworkTrnData</a>	Aggregate	Optional	Network Transaction Information. Identification and location of the terminal from which the message originates.
<a href="#">ServerTerminalSeqNum</a>	NC-36	Optional	Server Terminal Sequence Number. A terminal sequence number generated by the server to identify this object. This number is used in ATM and POS environments to uniquely identify transactions (with terminal name and date) for transaction management.
<a href="#">PointOfServiceData</a>	Aggregate	Optional	The Point of Service Data. This aggregate contains information about the environment in which this message originated.
<a href="#">ClientTerminalSeqNum</a>	NC-36	Optional	Client Terminal Sequence Number. A terminal sequence number generated by the client to identify this object. This number is used in ATM, POS, Branch, Call Center and Teller environments to uniquely identify transactions at the client (with terminal name and date). This number is often required when requesting supporting documentation related to a customer transaction.
end Elements from BaseEnvr			
begin Aggregate			
end Aggregate			



---

**Account Statement Identifier <AcctStmtd>**

Account Statement Identifier

Datatype: **Identifier**

---

**Account Statement Information Aggregate <AcctStmtdInfo>**

Account Statement Information Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">AcctKeys</a>	Aggregate	Required	Account Keys Aggregate
<a href="#">PartyKeys</a>	Aggregate	Optional	Party Keys Aggregate
<a href="#">StmtdTimeFrame</a>	Aggregate	Optional	Statement Time Frame
<a href="#">ImageURL</a>	URL	Optional	Image URL
begin-xor		Optional	
<a href="#">StmtdImg</a>	Aggregate	Required	Statement Image.
<a href="#">AcctTrnRef</a>	Aggregate	Required Repeating	Account Transaction Reference Aggregate
end-xor			
<a href="#">SubAcctRef</a>	Aggregate	Optional Repeating	Sub-Account Reference Aggregate
<a href="#">EffDt</a>	DateTime	Optional	Effective Date Time
<a href="#">NextDt</a>	DateTime	Optional	Next Closing Date
<a href="#">AcctBal</a>	Aggregate	Optional Repeating	Account Balance
<a href="#">AcctPeriodData</a>	Aggregate	Optional Repeating	Account Period Data
<a href="#">CreditStmtdData</a>	Aggregate	Optional	Credit Statement Data Aggregate
<a href="#">StmtdGroup</a>	C-25	Optional	Statement Group
<a href="#">MktgMaterial</a>	Aggregate	Optional	Marketing Material
<a href="#">SPRefIdent</a>	NC-36	Optional	Service Provider Reference Identifier
end Aggregate			

---

## Account Statement Inquiry Message <AcctStmtInqRq>

Account Statement Inquiry Message

See the matching response message [AcctStmtInqRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">DocCtrlIn</a>	Aggregate	Optional	Document Control Input
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
begin-xor		Optional Repeating	
<a href="#">AcctStmtSel</a>	Aggregate	Required	Account Statement Selection Aggregate
<a href="#">RecSelect</a>	IfxPath	Required	Record Select
end-xor			
end Aggregate			

---

## Account Statement Inquiry Response <AcctStmtInqRs>

Account Statement Inquiry Response

See the matching request message [AcctStmtInqRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier

<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">DocCtrlOut</a>	Aggregate	Optional	Document Control Output
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">AcctStmtRec</a>	Aggregate	Required Repeating	Account Statement Record
end-block			
end Aggregate			

---

### Account Statement Keys Aggregate <AcctStmtKeys>

Account Statement Keys Aggregate

Extends: [BaseKeys](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseKeys			
end Elements from BaseKeys			
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
begin-xor		Required	
<a href="#">AcctStmtId</a>	Identifier	Required	Account Statement Identifier
begin-block		Required	
<a href="#">StmtDt</a>	Date	Required	Statement Date
<a href="#">AcctKeys</a>	Aggregate	Required	Account Keys Aggregate
<a href="#">PartyKeys</a>	Aggregate	Optional	Party Keys Aggregate
<a href="#">StmtGroup</a>	C-25	Required	Statement Group
end-block			
end-xor			
end Aggregate			

---

### Account Statement Record <AcctStmtRec>

## Account Statement Record

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">AcctStmtd</a>	Identifier	Required	Account Statement Identifier
<a href="#">AcctStmtdInfo</a>	Aggregate	Required	Account Statement Information Aggregate
<a href="#">AcctStmtdEnvr</a>	Aggregate	Optional	Account Statement Environment Aggregate
<a href="#">AcctStmtdStatus</a>	Aggregate	Required	Account Statement Status Aggregate
end Aggregate			

---

## Account Statement Reference Aggregate <AcctStmtdRef>

Account Statement Reference Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">AcctStmtdKeys</a>	Aggregate	Required	Account Statement Keys Aggregate
<a href="#">AcctStmtdRec</a>	Aggregate	Required	Account Statement Record
<a href="#">AcctStmtdInfo</a>	Aggregate	Required	Account Statement Information Aggregate
end-xor			
end Aggregate			

---

## Account Statement Reversal Request <AcctStmtdRevRq>

Account Statement Reversal Request

See the matching response message [AcctStmtdRevRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RevReasonCode</a>	Aggregate	Required	Reversal Reason Code
<a href="#">Desc</a>	C-80	Optional	Description
<a href="#">AcctStmtRqMsg</a>	Aggregate	Required	Account Statement Request Messages Aggregate
end Aggregate			

---

### Account Statement Reversal Response <AcctStmtRevRs>

Account Statement Reversal Response

See the matching request message [AcctStmtRevRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
end Aggregate			

---

### Account Statement Request Messages Aggregate <AcctStmtRqMsg>

Account Statement Request Messages Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
-----	------	-------	---------------------------

begin Aggregate			
begin-xor		Required	
<a href="#">AcctStmntInqRq</a>	Aggregate	Required	Account Statement Inquiry Message
<a href="#">AcctStmntAdviseRq</a>	Aggregate	Required	Account Statement Advise Message
<a href="#">AcctStmntStatusModRq</a>	Aggregate	Required	Account Statement Status Modify Request
<a href="#">AcctStmntStatusInqRq</a>	Aggregate	Required	Account Statement Status Inquiry Request
<a href="#">RevRqUID</a>	UUID	Required	Reversal Request Unique ID
end-xor			
end Aggregate			

### Account Statement Selection Aggregate <AcctStmntSel>

Account Statement Selection Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required Repeating	
<a href="#">AcctStmntKeys</a>	Aggregate	Required	Account Statement Keys Aggregate
begin-block		Required	
<a href="#">AcctKeys</a>	Aggregate	Optional	Account Keys Aggregate
<a href="#">PartyKeys</a>	Aggregate	Optional	Party Keys Aggregate
<a href="#">DtRange</a>	Aggregate	Optional	Date Range
<a href="#">StmntType</a>	Open Enum	Optional	Statement Type Valid values include: Legal, Partial
<a href="#">StmntGroup</a>	C-25	Optional	Statement Group
end-block			
end-xor			
end Aggregate			

---

## Account Statement Status Aggregate <AcctStmtStatus>

Account Statement Status Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">AcctStmtStatusCode</a>	Open Enum	Required	Account Statement Status Code Valid values include: Deleted, Valid
<a href="#">StatusDesc</a>	C-255	Optional	Status Description
<a href="#">EffDt</a>	DateTime	Optional	Effective Date Time
<a href="#">StatusModBy</a>	Open Enum	Optional	Status Modified By Valid values include: BPP, BPPSR, BSP, BPSR, CPP, CPPSR, CSP, CPSR, Customer, FI, PSP
end Aggregate			

---

## Account Statement Status Code <AcctStmtStatusCode>

Account Statement Status Code

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Valid		N
Deleted		N

---

## Account Statement Status Inquiry Request <AcctStmtStatusInqRq>

Account Statement Status Inquiry Request

See the matching response message [AcctStmtStatusInqRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">DocCtrlIn</a>	Aggregate	Optional	Document Control Input
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
begin-xor		Optional Repeating	
<a href="#">AcctStmtSel</a>	Aggregate	Required	Account Statement Selection Aggregate
<a href="#">RecSelect</a>	IfxPath	Required	Record Select
end-xor			
end Aggregate			

---

### Account Statement Status Inquiry Response <AcctStmtStatusInqRs>

Account Statement Status Inquiry Response

See the matching request message [AcctStmtStatusInqRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">AcctStmtStatusRec</a>	Aggregate	Optional Repeating	Account Statement Status Record
end-block			



end Aggregate

## Account Statement Status Modify Request <AcctStmntStatusModRq>

Account Statement Status Modify Request

See the matching response message [AcctStmntStatusModRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">AcctStmntKeys</a>	Aggregate	Required	Account Statement Keys Aggregate
<a href="#">AcctStmntStatus</a>	Aggregate	Required	Account Statement Status Aggregate
end Aggregate			

## Account Statement Status Modify Response <AcctStmntStatusModRs>

Account Statement Status Modify Response

See the matching request message [AcctStmntStatusModRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">AcctStmntStatusRec</a>	Aggregate	Required	Account Statement Status Record
end-block			

end Aggregate

---

### Account Statement Status Record <AcctStmntStatusRec>

Account Statement Status Record

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">AcctStmntId</a>	Identifier	Required	Account Statement Identifier
<a href="#">AcctStmntStatus</a>	Aggregate	Required	Account Statement Status Aggregate
end Aggregate			

---

### Account Sync Request <AcctSyncRq>

Account Sync Request

See the matching response message [AcctSyncRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
<a href="#">AcctKeys</a>	Aggregate	Optional Repeating	Account Keys Aggregate
end Aggregate			

---

### Account Sync Response <AcctSyncRs>

## Account Sync Response

See the matching request message [AcctSyncRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">AcctRsMsg</a>	Aggregate	Optional Repeating	Account Response Messages Aggregate
end-block			
end Aggregate			

---

## Account Tax Type <AcctTaxType>

Account tax type.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
TaxDeferred	The account is tax deferred	N
Standard	The account is not tax deferred	Y
TaxFree	The account is tax free	N

---

## Account Title <AcctTitle>

Title on account typically identifies ownership or responsibility for account

and manner in which ownership/responsibility is assigned (e.g. John Doe CUSTODIAN).

Datatype: **C-255**

---

### Account Transaction Advise Message <AcctTrnAdviseRq>

Account Transaction Advise Message

See the matching response message [AcctTrnAdviseRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
begin-xor		Required	
<a href="#">AcctTrnRec</a>	Aggregate	Required	Account Transaction Record
<a href="#">AcctTrnStatusRec</a>	Aggregate	Required	Account Transaction Status Record
end-xor			
end Aggregate			

---

### Account Transaction Advise Response <AcctTrnAdviseRs>

Account Transaction Advise Response

See the matching request message [AcctTrnAdviseRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status

<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">AcctTrnRec</a>	Aggregate	Required	Account Transaction Record
<a href="#">AcctTrnStatusRec</a>	Aggregate	Required	Account Transaction Status Record
end-xor			
end-block			
end Aggregate			

## Account Transaction Environment Aggregate <AcctTrnEnvr>

Account Transaction Environment Aggregate

Extends: [BaseEnvr](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseEnvr			
<a href="#">CreatedDt</a>	DateTime	Required	Created Date/Time. The date/time the object was created.
<a href="#">CreateRefIdent</a>	NC-36	Optional	An identifier used to uniquely identify the creation of this object to the system that created the object. This will usually be a link to reference information used in creating the object.
<a href="#">ClientCreateDt</a>	DateTime	Optional	The created date/time as reported by the client. This can vary from the object creation date/time due to time zone differences, communication delays, etc
<a href="#">ClientBusinessDt</a>	DateTime	Optional	The date/time that the client recorded this object for operational purposes. This date/time will often be used to manage the availability of information or funds.
<a href="#">LastUpdateDt</a>	DateTime	Optional	Last update Date/Time. The date/time the object was created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
	UUID		

<a href="#">LastUpdateRqUID</a>		Optional	Last update RqUID. The RqUID from the message that resulted in th object being created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LoginName</a>	C-40	Optional	The login name (or Id) of the individual that authorized this object to be created. This is typically used when the object is created on behalf of its owner by someone who is not normally represented as a Party (i.e., an employee or agent).
<a href="#">PartyKeys</a>	Aggregate	Optional	Reference to the Party that this object is owned by or authorized by.
<a href="#">CardKeys</a>	Aggregate	Optional	This is dependent on Card proposal. Currently this is implemented as the CardLogicalData aggregate.
<a href="#">PassbkKeys</a>	Aggregate	Optional	Currently PassbkAcceptData.
<a href="#">NetworkTrnData</a>	Aggregate	Optional	Network Transaction Information. Identification and location of the terminal from which the message originates.
<a href="#">ServerTerminalSeqNum</a>	NC-36	Optional	Server Terminal Sequence Number. A terminal sequence number generated by the server to identify this object. This number is used in ATM and POS environments to uniquely identify transactions (with terminal name and date) for transaction management.
<a href="#">PointOfServiceData</a>	Aggregate	Optional	The Point of Service Data. This aggregate contains information about the environment in which this message originated.
<a href="#">ClientTerminalSeqNum</a>	NC-36	Optional	Client Terminal Sequence Number. A terminal sequence number generated by the client to identify this object. This number is used in ATM, POS, Branch, Call Center and Teller environments to uniquely identify transactions at the client (with terminal name and date). This number is often required when requesting supporting documentation related to a customer transaction.
end Elements from BaseEnvr			
begin Aggregate			
end Aggregate			

## Account Transaction Identifier <AcctTrnId>

Account Transaction Identifier

Datatype: **Identifier**

---

## Account Transaction Image Add Message <AcctTrnImgAddRq>

Account Transaction Image Add Message

See the matching response message [AcctTrnImgAddRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">AcctTrnImgInfo</a>	Aggregate	Required	Account Transaction Image Information Aggregate
end Aggregate			

---

## Account Transaction Image Add Response <AcctTrnImgAddRs>

Account Transaction Image Add Response

See the matching request message [AcctTrnImgAddRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header

end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">AcctTrnImgRec</a>	Aggregate	Required	Account Transaction Image Record
<a href="#">AcctTrnImgStatusRec</a>	Aggregate	Required	Account Transaction Image Status Record
end-xor			
end-block			
end Aggregate			

---

### Account Transaction Image Delete Request <AcctTrnImgDelRq>

Account Transaction Image Delete Request

See the matching response message [AcctTrnImgDelRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">AcctTrnImgKeys</a>	Aggregate	Required	Account Transaction Image Keys Aggregate
end Aggregate			

---

### Account Transaction Image Delete Response <AcctTrnImgDelRs>

Account Transaction Image Delete Response

See the matching request message [AcctTrnImgDelRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			



begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">AcctTrnImgRec</a>	Aggregate	Required	Account Transaction Image Record
<a href="#">AcctTrnImgStatusRec</a>	Aggregate	Required	Account Transaction Image Status Record
end-xor			
end-block			
end Aggregate			

## Account Transaction Image Environment Aggregate <AcctTrnImgEnvr>

Account Transaction Image Environment Aggregate

Extends: [BaseEnvr](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseEnvr			
<a href="#">CreatedDt</a>	DateTime	Required	Created Date/Time. The date/time the object was created.
<a href="#">CreateRefIdent</a>	NC-36	Optional	An identifier used to uniquely identify the creation of this object to the system that created the object. This will usually be a link to reference information used in creating the object.
<a href="#">ClientCreateDt</a>	DateTime	Optional	The created date/time as reported by the client. This can vary from the object creation date/time due to time zone differences, communication delays, etc
<a href="#">ClientBusinessDt</a>	DateTime	Optional	The date/time that the client recorded this object for operational purposes. This date/time will often be used to manage the availability of information or funds.
<a href="#">LastUpdateDt</a>	DateTime	Optional	Last update Date/Time. The date/time

			the object was created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LastUpdateRqUID</a>	UUID	Optional	Last update RqUID. The RqUID from the message that resulted in the object being created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LoginName</a>	C-40	Optional	The login name (or Id) of the individual that authorized this object to be created. This is typically used when the object is created on behalf of its owner by someone who is not normally represented as a Party (i.e., an employee or agent).
<a href="#">PartyKeys</a>	Aggregate	Optional	Reference to the Party that this object is owned by or authorized by.
<a href="#">CardKeys</a>	Aggregate	Optional	This is dependent on Card proposal. Currently this is implemented as the CardLogicalData aggregate.
<a href="#">PassbkKeys</a>	Aggregate	Optional	Currently PassbkAcceptData.
<a href="#">NetworkTrnData</a>	Aggregate	Optional	Network Transaction Information. Identification and location of the terminal from which the message originates.
<a href="#">ServerTerminalSeqNum</a>	NC-36	Optional	Server Terminal Sequence Number. A terminal sequence number generated by the server to identify this object. This number is used in ATM and POS environments to uniquely identify transactions (with terminal name and date) for transaction management.
<a href="#">PointOfServiceData</a>	Aggregate	Optional	The Point of Service Data. This aggregate contains information about the environment in which this message originated.
<a href="#">ClientTerminalSeqNum</a>	NC-36	Optional	Client Terminal Sequence Number. A terminal sequence number generated by the client to identify this object. This number is used in ATM, POS, Branch, Call Center and Teller environments to uniquely identify transactions at the client (with terminal name and date). This number is often required when requesting supporting documentation related to a customer transaction.
end Elements from BaseEnvr			
begin Aggregate			
end Aggregate			

---

**Account Transaction Image Identifier <AcctTrnImgId>**

Account Transaction Image Identifier

Datatype: **Identifier**

---

**Account Transaction Image Information Aggregate <AcctTrnImgInfo>**

Account Transaction Image Information Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">AcctTrnRef</a>	Aggregate	Optional	Account Transaction Reference Aggregate
<a href="#">TrnType</a>	Aggregate	Optional	Transaction Type
<a href="#">CurAmt</a>	Aggregate	Optional	Currency Amount
<a href="#">ChkNum</a>	NC-12	Optional	Check Number
<a href="#">RefData</a>	Aggregate	Optional	Reference Information
<a href="#">PrcDt</a>	Date	Optional	Processing Date
begin-or		Optional	
<a href="#">TrnImg</a>	Aggregate	Optional	Transaction Image
<a href="#">ImageURL</a>	URL	Optional	Image URL
<a href="#">ChkImgData</a>	Aggregate	Optional	Check Accept Image Data
end-or			
end Aggregate			

---

**Account Transaction Image Inquiry Request <AcctTrnImgInqRq>**

## Account Transaction Image Inquiry Request

See the matching response message [AcctTrnImgInqRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">DocCtrlIn</a>	Aggregate	Optional	Document Control Input
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
begin-xor		Optional Repeating	
<a href="#">AcctTrnImgSel</a>	Aggregate	Required	Account Transaction Image Selection Aggregate
<a href="#">RecSelect</a>	IfxPath	Required	Record Select
end-xor			
end Aggregate			

---

## Account Transaction Image Inquiry Response <AcctTrnImgInqRs>

Account Transaction Image Inquiry Response

See the matching request message [AcctTrnImgInqRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">DocCtrlOut</a>	Aggregate	Optional	Document Control Output
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output

<a href="#">AcctTrnImgRec</a>	Aggregate	Required Repeating	Account Transaction Image Record
end-block			
end Aggregate			

---

### Account Transaction Image Keys Aggregate <AcctTrnImgKeys>

Account Transaction Image Keys Aggregate

Extends: [BaseKeys](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseKeys			
end Elements from BaseKeys			
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
begin-xor		Required	
<a href="#">AcctTrnImgId</a>	Identifier	Required	Account Transaction Image Identifier
end-xor			
end Aggregate			

---

### Account Transaction Image Record <AcctTrnImgRec>

Account Transaction Image Record

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">AcctTrnImgId</a>	Identifier	Required	Account Transaction Image Identifier
<a href="#">AcctTrnImgInfo</a>	Aggregate	Required	Account Transaction Image Information Aggregate
<a href="#">AcctTrnImgEnvr</a>	Aggregate	Optional	Account Transaction Image Environment Aggregate

<a href="#">AcctTrnImgStatus</a>	Aggregate	Required	Account Transaction Image Status Aggregate
end Aggregate			

---

### Account Transaction Image Reference Aggregate <AcctTrnImgRef>

Account Transaction Image Reference Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">AcctTrnImgKeys</a>	Aggregate	Required	Account Transaction Image Keys Aggregate
<a href="#">AcctTrnImgRec</a>	Aggregate	Required	Account Transaction Image Record
<a href="#">AcctTrnImgInfo</a>	Aggregate	Required	Account Transaction Image Information Aggregate
end-xor			
end Aggregate			

---

### Account Transaction Image Reversal Request <AcctTrnImgRevRq>

Account Transaction Image Reversal Request

See the matching response message [AcctTrnImgRevRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RevReasonCode</a>	Aggregate	Required	Reversal Reason Code

<a href="#">Desc</a>	C-80	Optional	Description
<a href="#">AcctTrnImgRqMsg</a>	Aggregate	Required	Account Transaction Image Request Messages Aggregate
end Aggregate			

---

## Account Transaction Image Reversal Response <AcctTrnImgRevRs>

Account Transaction Image Reversal Response

See the matching request message [AcctTrnImgRevRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
end Aggregate			

---

## Account Transaction Image Request Messages Aggregate <AcctTrnImgRqMsg>

Account Transaction Image Request Messages Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">AcctTrnImgAddRq</a>	Aggregate	Required	Account Transaction Image Add Message
<a href="#">AcctTrnImgDelRq</a>	Aggregate	Required	Account Transaction Image Delete Request
<a href="#">AcctTrnImgInqRq</a>	Aggregate	Required	Account Transaction Image Inquiry Request

<a href="#">RevRqUID</a>	UUID	Required	Reversal Request Unique ID
end-xor			
end Aggregate			

## Account Transaction Image Selection Aggregate <AcctTrnImgSel>

Account Transaction Image Selection Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required Repeating	
<a href="#">AcctTrnImgKeys</a>	Aggregate	Required	Account Transaction Image Keys Aggregate
begin-block		Required	
<a href="#">AcctKeys</a>	Aggregate	Required	Account Keys Aggregate
<a href="#">CurAmtRange</a>	Aggregate	Optional	Currency Amount Range
<a href="#">ChkNum</a>	NC-12	Optional	Check Number
<a href="#">ChkNumRange</a>	Aggregate	Optional	Check Number Range
<a href="#">DtRange</a>	Aggregate	Optional	Date Range
<a href="#">TrnType</a>	Aggregate	Optional	Transaction Type
<a href="#">TrnSubType</a>	C-15	Optional	Transaction Sub-Type
<a href="#">TrnSrc</a>	Open Enum	Optional	Transaction Source  Valid values include: ACH, All, ATM, HomeBank, POS, Teller, VRU  Default Value: All
<a href="#">RecordCountLimit</a>	Aggregate	Optional	Record Count Limit
<a href="#">AcctTrnKeys</a>	Aggregate	Optional	Account Transaction Keys Aggregate
<a href="#">RefData</a>	Aggregate	Optional	Reference Information
end-block			
end-xor			
end Aggregate			



---

## Account Transaction Image Status Aggregate <AcctTrnImgStatus>

Account Transaction Image Status Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">AcctTrnImgStatusCode</a>	Open Enum	Required	Account Transaction Image Status Code <hr/> Valid values include: Deleted, Valid
<a href="#">StatusDesc</a>	C-255	Optional	Status Description
<a href="#">EffDt</a>	DateTime	Optional	Effective Date Time
<a href="#">StatusModBy</a>	Open Enum	Optional	Status Modified By <hr/> Valid values include: BPP, BPPSR, BSP, BSPSR, CPP, CPPSR, CSP, CSPSR, Customer, FI, PSP
end Aggregate			

---

## Account Transaction Image Status Code <AcctTrnImgStatusCode>

Account Transaction Image Status Code

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
Valid		N
Deleted		N

---

## Account Transaction Image Status Record <AcctTrnImgStatusRec>

## Account Transaction Image Status Record

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvclIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">AcctTrnImgld</a>	Identifier	Required	Account Transaction Image Identifier
<a href="#">AcctTrnImgStatus</a>	Aggregate	Required	Account Transaction Image Status Aggregate
end Aggregate			

## Account Transaction Information Aggregate <AcctTrnInfo>

The sign convention for the statement message aggregate is as follows: a positive <CurAmt> is added to the account balance and a negative <CurAmt> is subtracted from the account balance.

<i>Sign of &lt;CurAmt&gt;</i>	<i>Meaning</i>
Positive	Increase account balance.
Negative	Decrease account balance.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">AcctRef</a>	Aggregate	Optional	Account Reference Aggregate
<a href="#">TrnType</a>	Aggregate	Optional	Transaction Type
<a href="#">TrnSubType</a>	C-15	Optional	Transaction Sub-Type
<a href="#">TrnSrc</a>	Open Enum	Optional	Transaction Source Valid values include: ACH, All, ATM, HomeBank, POS, Teller, VRU Default Value: All
<a href="#">PostedDt</a>	Date	Optional	Posting Date
<a href="#">OrigDt</a>	Date	Optional	Origination Date
<a href="#">EffDt</a>	DateTime	Optional	Date transaction is 'as of'.
<a href="#">TotalCurAmt</a>	Aggregate	Optional	Total amount of the transaction in the currency of the account.
<a href="#">ExchangeRate</a>	Aggregate	Optional	Exchange Rate

<a href="#">CompositeCurAmt</a>	Aggregate	Optional	Composite Currency Amount
<a href="#">Memo</a>	C-255	Optional	Memo
<a href="#">Name</a>	C-40	Optional	Name
<a href="#">StmntRunningBal</a>	Aggregate	Optional	Statement Running Balance
<a href="#">ChkNum</a>	NC-12	Optional	Check Number
<a href="#">XferKeys</a>	Aggregate	Optional	Funds Transfer Keys Aggregate
<a href="#">PmtKeys</a>	Aggregate	Optional	Payment Keys Aggregate
<a href="#">AvailDt</a>	DateTime	Optional	Available Date
<a href="#">SalesSlipRefNum</a>	NC-23	Optional	Sales Slip Reference Number
<a href="#">NetworkTrnData</a>	Aggregate	Optional	Network Transaction Data
<a href="#">CounterpartyData</a>	Aggregate	Optional	Counterparty Data Aggregate
<a href="#">RefData</a>	Aggregate	Optional	Reference Information
<a href="#">BillRefText</a>	NC-80	Optional	Bill Reference Text
<a href="#">RemitAdviceRefld</a>	NC-34	Optional	Remittance Advice Reference Identifier
<a href="#">CustPayeeInfo</a>	Aggregate	Optional	Customer Payee Information Aggregate
<a href="#">InvoiceData</a>	Aggregate	Optional	Provides information about invoices.
<a href="#">CSPRefldent</a>	NC-36	Optional	Customer Service Provider Reference Identifier
<a href="#">SPRefldent</a>	NC-36	Optional	Service Provider Reference Identifier
<a href="#">SPRefldCorrect</a>	Aggregate	Optional	SP Reference Identifier Correction
<a href="#">CardAddenda</a>	Abstract Aggregate	Optional Repeating	Card Addenda <b>Valid Aggregates are:</b> AirlineAddenda LodgingAddenda VehicleRentalAddenda
end Aggregate			

---

### Account Transaction Inquiry Message <AcctTrnInqRq>

Account Transaction Inquiry Message

See the matching response message [AcctTrnInqRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			

<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">DocCtrlIn</a>	Aggregate	Optional	Document Control Input
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
begin-xor		Optional Repeating	
<a href="#">AcctTrnSel</a>	Aggregate	Required	Account Transaction Selection Aggregate
<a href="#">RecSelect</a>	lfxPath	Required	Record Select
end-xor			
end Aggregate			

---

### Account Transaction Inquiry Response <AcctTrnInqRs>

Account Transaction Inquiry Response

See the matching request message [AcctTrnInqRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">DocCtrlOut</a>	Aggregate	Optional	Document Control Output
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">AcctTrnRec</a>	Aggregate	Required Repeating	Account Transaction Record
end-block			
end Aggregate			

---

### Account Transaction Keys Aggregate <AcctTrnKeys>

## Account Transaction Keys Aggregate

Extends: [BaseKeys](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseKeys			
end Elements from BaseKeys			
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
begin-xor		Required	
<a href="#">AcctTrnId</a>	Identifier	Required	Account Transaction Identifier
end-xor			
end Aggregate			

---

## Account Transaction Limit <AcctTrnLimit>

The <AcctTrnLimit> aggregate provides information about transaction limits based on currency amount and/or number of occurrences of the transaction.

Extended By: [CardTrnLimit](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">TrnType</a>	Aggregate	Required	Transaction Type
<a href="#">TrnSubType</a>	C-15	Optional	Transaction Sub-Type
<a href="#">AcctTrnUse</a>	Open Enum	Optional	Account Transaction Use Valid values include: All, Destination, Source
<a href="#">TrnSrc</a>	Open Enum	Optional Repeating	Transaction Source Valid values include: ACH, All, ATM, HomeBank, POS, Teller, VRU Default Value: All
<a href="#">LimitType</a>	Open Enum	Optional Repeating	Limit Type Valid values include: DailyMax, DailyMin,

			Max, Min, MonthlyMax, MonthlyMin, WeeklyMax, WeeklyMin Default Value: Max
begin-or		Required	
<a href="#">CurAmt</a>	Aggregate	Optional	Limit Amount
<a href="#">LimitCount</a>	Long	Optional	Limit Count
end-or			
end Aggregate			

---

### Account Transaction Record <AcctTrnRec>

Account Transaction Record

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">AcctTrnId</a>	Identifier	Required	Account Transaction Identifier
<a href="#">AcctTrnInfo</a>	Aggregate	Required	Account Transaction Information Aggregate
<a href="#">AcctTrnEnvr</a>	Aggregate	Optional	Account Transaction Environment Aggregate
<a href="#">AcctTrnStatus</a>	Aggregate	Required	Account Transaction Status Aggregate
end Aggregate			

---

### Account Transaction Reference Aggregate <AcctTrnRef>

Account Transaction Reference Aggregate

Extends: [TrnRef](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes

begin Elements from TrnRef			
end Elements from TrnRef			
begin Aggregate			
begin-xor		Required	
<a href="#">AcctTrnKeys</a>	Aggregate	Required	Account Transaction Keys Aggregate
<a href="#">AcctTrnRec</a>	Aggregate	Required	Account Transaction Record
<a href="#">AcctTrnInfo</a>	Aggregate	Required	Account Transaction Information Aggregate
end-xor			
end Aggregate			

---

### Account Transaction Reversal Request <AcctTrnRevRq>

Account Transaction Reversal Request

See the matching response message [AcctTrnRevRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RevReasonCode</a>	Aggregate	Required	Reversal Reason Code
<a href="#">Desc</a>	C-80	Optional	Description
<a href="#">AcctTrnRqMsg</a>	Aggregate	Required	Account Transaction Request Messages Aggregate
end Aggregate			

---

### Account Transaction Reversal Response <AcctTrnRevRs>

Account Transaction Reversal Response

See the matching request message [AcctTrnRevRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
end Aggregate			

---

**Account Transaction Request Messages Aggregate <AcctTrnRqMsg>**

Account Transaction Request Messages Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">AcctTrnInqRq</a>	Aggregate	Required	Account Transaction Inquiry Message
<a href="#">AcctTrnAdviseRq</a>	Aggregate	Required	Account Transaction Advise Message
<a href="#">RevRqUID</a>	UUID	Required	Reversal Request Unique ID
end-xor			
end Aggregate			

---

**Account Transaction Selection Aggregate <AcctTrnSel>**

Account Transaction Selection Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	



		Repeating	
<a href="#">AcctTrnKeys</a>	Aggregate	Required	Account Transaction Keys Aggregate
begin-block		Required	
<a href="#">AcctKeys</a>	Aggregate	Optional	Account Keys Aggregate
<a href="#">DtRange</a>	Aggregate	Optional	Date Range
<a href="#">CurAmtRange</a>	Aggregate	Optional	Currency Amount Range
<a href="#">RecordCountLimit</a>	Aggregate	Optional	Record Count Limit
<a href="#">TrnType</a>	Aggregate	Optional	Transaction Type
<a href="#">TrnSubType</a>	C-15	Optional	Transaction Sub-Type
<a href="#">TrnSrc</a>	Open Enum	Optional	Transaction Source Valid values include: ACH, All, ATM, HomeBank, POS, Teller, VRU Default Value: All
<a href="#">Name</a>	C-40	Optional	Name
<a href="#">ChkNumRange</a>	Aggregate	Optional	Check Number Range
<a href="#">RefIdentRange</a>	Aggregate	Optional	Reference Identifier Range
end-block			
end-xor			
end Aggregate			

---

### Account Transaction Status Aggregate <AcctTrnStatus>

Account Transaction Status Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">AcctTrnStatusCode</a>	Open Enum	Required	Account Transaction Status Code Valid values include: Deleted, Valid
<a href="#">StatusDesc</a>	C-255	Optional	Status Description
<a href="#">EffDt</a>	DateTime	Optional	Effective Date Time
<a href="#">StatusModBy</a>	Open Enum	Optional	Status Modified By Valid values include: BPP, BPPSR, BSP, BPSR, CPP, CPPSR, CSP, CSPSR,

			Customer, FI, PSP
end Aggregate			

---

### Account Transaction Status Code <AcctTrnStatusCode>

Account Transaction Status Code

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
Valid		N
Deleted		N

---

### Account Transaction Status Record <AcctTrnStatusRec>

Account Transaction Status Record

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">AcctTrnId</a>	Identifier	Required	Account Transaction Identifier
<a href="#">AcctTrnStatus</a>	Aggregate	Required	Account Transaction Status Aggregate
end Aggregate			

---

### Account Transaction Use <AcctTrnUse>

Account Transaction Use

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Source		N
Destination		N
All		Y

---

### Account Type <AcctType>

Account Type

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">AcctTypeValue</a>	Open Enum	Required	Account Type Value  Valid values include: CCA, CDA, CLA, CMA, DDA, EQU, GLA, ILA, INV, IRA, IRL, LOC, MLA, MMA, PBA, PPA, RWD, SDA
<a href="#">AcctTypeSource</a>	Open Enum	Optional	Account Type Source  Valid values include: APACS, IFX, ISO15022, ISO20022, ISO8583:1993, ISO8583:2003, OFX  Default Value: IFX
end Aggregate			

---

### Account Type Source <AcctTypeSource>

Account Type Source

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
APACS		N
ISO15022		N
ISO20022		N
ISO8583:1993		N
ISO8583:2003		N
OFX		N
IFX		Y

---

### Account Type Value <AcctTypeValue>

An FI-assigned data item which classifies the type of product with which an account is associated.

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
DDA	Demand Deposit Account. An account paying funds on demand without notice of intended withdrawal. Also known as a Checking Account. This is a deposit type account.	N
SDA	Savings Deposit Account. An interest-bearing deposit account without a stated maturity, as opposed to a time deposit. This is a deposit type account.	N
CCA	Credit Card Account. An account linked to a pre-approved Line of Credit where a person with satisfactory credit rating makes retail purchases or obtains cash advances using a payment card. This is a credit type account.	N
EQU	Home Equity Loan. A Loan and/or line of credit that uses a home as collateral.	N
ILA	Installment Loan Account. A loan repaid with interest owed, in equal periodic payments of principal and interest. This is a loan type account.	N
CLA	Commercial Loan Account. A loan to a corporation, commercial enterprise, or joint venture, as opposed to a loan to a consumer. This is a loan type account.	N
CDA	Certificate of Deposit. A large denomination time deposit bearing a stipulated interest, payable at maturity. This is a deposit type account.	N
LOC	Consumer Line of Credit. A commitment by a Financial Institution to lend funds to an individual up to a specified amount over a specified future period. This is a credit type account.	N
MLA	Mortgage Loan Account. An extension of real estate credit, usually on a long-term basis. The real estate is the lender's security. This is a loan type account.	N
MMA	Money Market Account. An interest bearing demand deposit account investing in private and government obligations with a maturity of one year or less. This is a deposit type account.	N

CMA	Cash Management Account. A personal financial management account usually combining a checking account, a money market account, a brokerage margin account and a debit card. Considered to be a deposit-type account.	N
INV	Investment Account. Brokerage or investment account contains mutual funds, stocks, bonds, and other investment instruments.	N
IRA	Individual Retirement Account. An account that has different tax implications from other deposit accounts.	N
PBA	Passbook Account. An account that is accompanied by a passbook.	N
GLA	General Ledger Account.	N
IRL	Investment Revolving Loan Account. A loan account used to purchase investment instruments.	N
PPA	Prepaid Account. Account that is funded upfront and depleted through purchases.	N
RWD	A reward account	N

---

### Account Use <AcctUse>

U.S. Institutions should use this for Regulation D reporting purposes.

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
Retail	The customer is a retail customer	N
Business	The customer is a business customer	N

---

### Account Validation URL <AcctValidateURL>

URL for Account Validation.

URL for validation. The client application may use this to validate the customer's account number with biller.

Datatype: **URL**

---

### **Acknowledgement Type <AckType>**

Sent by the CPP indicating the state of the transaction processing.

Datatype: **Open Enum**

### **Enumerated Values**

Value	Description	Is default
Accepted	Accepted	N
Rejected	Rejected	N
Pending	Pending	N

---

### **Acquirer Identifier <AcquirerIdent>**

The number assigned to the acquirer by the association. The member that first introduced a record of the transaction into the interchange.

Datatype: **NC-36**

---

### **Action Completion Date <ActionCompletionDt>**

The date the action was completed.

Datatype: **Date**

---

### **Action Due Date <ActionDueDt>**

The date by which the current action must be performed. If not completed by that date another default action may be initiated.

Datatype: **Date**

---

**Action Entered Date <ActionEnteredDt>**

The date on which the action was entered into te case.

Datatype: **Date**

---

**Activation Date <ActivationDt>**

The date which the cardholder activated the card.

Datatype: **DateTime**

---

**Activation Indicator <ActivationInd>**

Identifies if the card has been through the activation processing.

If a server does not support card activation they would use a value of "Y" stating the card is active and no activation process is required.

Datatype: **Boolean**

---

**Activation Method <ActivationMeth>**

Defines the method the card was activated.

Datatype: **Open Enum**

**Enumerated Values**

Value	Description	Is default
-------	-------------	------------

IVR		N
Web		N
CSR		N

---

### Activation Number <ActivationNum>

A code supplied to the customer to activate a top up of a pre-paid account. This field will be supplied to the customer in the clear. The top-up service provider sets this field in an approved top-up response if a separate activation is required.

Datatype: **NC-32**

---

### Activation Phone <ActivationPhone>

Activation Phone Number supplied to the customer, to be used in conjunction with the ActivationNum (if a separate activation of the top-up via phone is required).

Datatype: **Phone Number**

---

### Additional Status <AdditionalStatus>

Additional statuses. The <StatusCode> above must contain the primary response code. This aggregate may appear once for each additional status that the server intends to provide. For example, if both an account number and a date are invalid, the <StatusCode> above may contain one of the two errors, and this aggregate may contain the other.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">StatusCode</a>	Long	Optional	Response Status Code. Valid values depend on context. See Appendix A.



<a href="#">ServerStatusCode</a>	C-20	Optional	Server Status Code. The value placed here is used to allow the client to display the status code to the user. This allows the user to read the code to a customer service representative for debugging purposes.
<a href="#">Severity</a>	Closed Enum	Required	Severity.  Valid values: Error, Warn, Info
<a href="#">StatusDesc</a>	C-255	Optional	Status Description. Explanatory text associated with the status code. The Status Description may be default text or Service Provider specific.
<a href="#">SubjectElement</a>	Aggregate	Optional Repeating	Information about the element that corresponds to the status code. The aggregate is repeating to allow for a relationship between one or more elements such that the combination causes the status code (e.g. PartyId is not authorized to perform transaction on specific AcctId).
<a href="#">OverrideException</a>	Aggregate	Optional	Message exception that may be overridden.
end Aggregate			

---

**Address Line 1 <Addr1>**

Address Line 1.

Datatype: **C-64**

---

**Address Line 2 <Addr2>**

Address Line 2.

Datatype: **C-64**

---

### **Address Line 3 <Addr3>**

Address Line 3.

Datatype: **C-64**

---

### **Address Line 4 <Addr4>**

Address Line 4.

Datatype: **C-64**

---

### **Address Identifier <AddressIdent>**

An optional key of reference.

Datatype: **NC-36**

---

### **Address Type <AddrType>**

Datatype: **Open Enum**

## **Enumerated Values**

Value	Description	Is default
Seasonal		N
Primary		N
Secondary		N
Business		N
Home		N

---

### Adjustment Days <AdjDays>

The number of days before or after the AdjDaysBasis. A negative value indicates the days prior to the AdjDaysBasis and a positive value indicates the days after the AdjDaysBasis.

Datatype: **Long**

---

### Adjustment Days Basis <AdjDaysBasis>

The basis for the calculation using the AdjDays.

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
StmtDt	Statement Date	Y
DueDt	Due Date	N
EndOfMonth	End Of Month	N

---

### Adjustment Type <AdjType>

Adjustment Type. This element describes the reason for the adjustment.

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
Return	Product return credit adjustment	N
Damage	Shipment damage credit adjustment	N
ShortShip	Short shipment credit adjustment	N

---

**Adjust Date <AdjustDt>**

The date on which the adjustment was made

Datatype: **Date**

---

**Affinity Name <AffinityName>**

Affinity partner name

Datatype: **C-40**

---

**Agent Identifier <AgentIdent>**

The identification of the agent of the card acceptor that attended the service device while this message was created. This will usually be the Id of a clerk or similar employee of the card acceptor.

Datatype: **NC-36**

---

**Agent Type <AgentType>**

The type of agent that assisted the customer creating this message.

Default value: Clerk

Datatype: **Open Enum**

**Enumerated Values**

Value	Description	Is default
Unknown		N

Clerk		Y
Manager		N
IndependentAgent		N
AuthorizedAgent		N

---

### Aging <Aging>

Number of Days Delinquent.

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
0-30	The account is delinquent by 30 days or less	N
31-60	The account is delinquent by at least 31, but not more than 60, days	N
61-90	The account is delinquent by at least 61, but not more than 90, days	N
91-120	The account is delinquent by at least 91, but not more than 120, days	N
Over121	The account is delinquent by 121 or more days	N

---

### Airline Addenda <AirlineAddenda>

Provides detailed information about airline transactions.

Extends: [CardAddenda](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from CardAddenda			
end Elements from CardAddenda			
begin Aggregate			
<a href="#">ElectronicTicketInd</a>	Boolean	Optional	Electronic Ticket Indicator
<a href="#">Name</a>	C-40	Optional	Name
<a href="#">TicketNumber</a>	C-15	Optional	Ticket Number
<a href="#">IssueDt</a>	DateTime	Optional	Issue Date

<a href="#">DepartureDt</a>	Date	Optional	Departure Date
<a href="#">TravelAgencyIdent</a>	C-36	Optional	Travel Agency Identifier
<a href="#">TravelAgencyName</a>	C-40	Optional	Travel Agency Name
<a href="#">RestrictedTicketInd</a>	Boolean	Optional	Restricted Ticket Indicator
<a href="#">ReservationSystem</a>	C-4	Optional	Reservation System
<a href="#">NumberInParty</a>	Long	Optional	Number In Party
<a href="#">City</a>	C-32	Optional	City
<a href="#">TripLeg</a>	Aggregate	Optional Repeating	Trip Leg
<a href="#">AirlineCharge</a>	Aggregate	Optional Repeating	Airline Charge
end Aggregate			

---

### Airline Charge <AirlineCharge>

Provides information regarding airline charge amounts.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">AirlineChargeType</a>	Open Enum	Required	Airline Charge Type  Valid values include: Fee, Tax, Transaction
<a href="#">CurAmt</a>	Aggregate	Required	Currency Amount
end Aggregate			

---

### Airline Charge Type <AirlineChargeType>

Airline Charge Type. Used to identify the type of airline charge.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Transaction		N
Fee		N
Tax		N

---

### Alert Add Message <AlertAddRq>

Alert Add Message

See the matching response message [AlertAddRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">AlertInfo</a>	Aggregate	Required	Alert Information Aggregate
end Aggregate			

---

### Alert Add Response <AlertAddRs>

Alert Add Response

See the matching request message [AlertAddRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			

begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">AlertRec</a>	Aggregate	Required	Alert Record
<a href="#">AlertStatusRec</a>	Aggregate	Required	Alert Status Record
end-xor			
end-block			
end Aggregate			

---

### Alert Amount <AlertAmt>

An amount associated with alert that defines the triggering mechanism.  
 Extends: [CurAmt](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from CurAmt			
<a href="#">Amt</a>	Decimal	Optional	Amount.
<a href="#">CurCode</a>	Aggregate	Optional	Currency Code
end Elements from CurAmt			
begin Aggregate			
end Aggregate			

---

### Alert Delete Request <AlertDelRq>

Alert Delete Request

See the matching response message [AlertDelRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
	Aggregate		



<a href="#">MsgRqHdr</a>		Optional	Message Request Header
<a href="#">AlertKeys</a>	Aggregate	Required	Alert Keys Aggregate
end Aggregate			

---

### Alert Delete Response <AlertDelRs>

Alert Delete Response

See the matching request message [AlertDelRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">AlertRec</a>	Aggregate	Required	Alert Record
<a href="#">AlertStatusRec</a>	Aggregate	Required	Alert Status Record
end-xor			
end-block			
end Aggregate			

---

### Alert Description <AlertDesc>

The alert description.

Datatype: **C-80**

## Alert Environment Aggregate <AlertEnvr>

Alert Environment Aggregate

Extends: [BaseEnvr](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseEnvr			
<a href="#">CreatedDt</a>	DateTime	Required	Created Date/Time. The date/time the object was created.
<a href="#">CreateRefIdent</a>	NC-36	Optional	An identifier used to uniquely identify the creation of this object to the system that created the object. This will usually be a link to reference information used in creating the object.
<a href="#">ClientCreateDt</a>	DateTime	Optional	The created date/time as reported by the client. This can vary from the object creation date/time due to time zone differences, communication delays, etc
<a href="#">ClientBusinessDt</a>	DateTime	Optional	The date/time that the client recorded this object for operational purposes. This date/time will often be used to manage the availability of information or funds.
<a href="#">LastUpdateDt</a>	DateTime	Optional	Last update Date/Time. The date/time the object was created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LastUpdateRqUID</a>	UUID	Optional	Last update RqUID. The RqUID from the message that resulted in th object being created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LoginName</a>	C-40	Optional	The login name (or Id) of the individual that authorized this object to be created. This is typically used when the object is created on behalf of its owner by someone who is not normally represented as a Party (i.e., an employee or agent).
<a href="#">PartyKeys</a>	Aggregate	Optional	Reference to the Party that this object is owned by or authorized by.
<a href="#">CardKeys</a>	Aggregate	Optional	This is dependent on Card proposal. Currently this is implemented as the CardLogicalData aggregate.
	Aggregate		

<a href="#">PassbkKeys</a>		Optional	Currently PassbkAcceptData.
<a href="#">NetworkTrnData</a>	Aggregate	Optional	Network Transaction Information. Identification and location of the terminal from which the message originates.
<a href="#">ServerTerminalSeqNum</a>	NC-36	Optional	Server Terminal Sequence Number. A terminal sequence number generated by the server to identify this object. This number is used in ATM and POS environments to uniquely identify transactions (with terminal name and date) for transaction management.
<a href="#">PointOfServiceData</a>	Aggregate	Optional	The Point of Service Data. This aggregate contains information about the environment in which this message originated.
<a href="#">ClientTerminalSeqNum</a>	NC-36	Optional	Client Terminal Sequence Number. A terminal sequence number generated by the client to identify this object. This number is used in ATM, POS, Branch, Call Center and Teller environments to uniquely identify transactions at the client (with terminal name and date). This number is often required when requesting supporting documentation related to a customer transaction.
end Elements from BaseEnvr			
begin Aggregate			
end Aggregate			

---

### Alert Identifier <AlertId>

Alert Identifier

Datatype: **Identifier**

---

### Alternate Alert Identifier <AlertIdent>

An alternate alert identification.

Datatype: **NC-36**

## Alert Information Aggregate <AlertInfo>

Alert Information Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-or		Required	
<a href="#">AcctKeys</a>	Aggregate	Optional	Account Keys Aggregate
<a href="#">PartyKeys</a>	Aggregate	Optional	Party Keys Aggregate
<a href="#">CardKeys</a>	Aggregate	Optional	Card Keys Aggregate
<a href="#">CustPayeeKeys</a>	Aggregate	Optional	Customer Payee Keys Aggregate
end-or			
<a href="#">AlertType</a>	Open Enum	Optional	Alert Type  Valid values include: AddressChange, CardRequest, CashTran, CreditAth, CreditLimitChange, CreditLimitUsage, CreditTran, CurrentBalance, DebitAth, DebitTran, DisputeOpened, DisputeResolved, HighBalance, Inactive, LowBalance, NegativeBalance, Overdrawn, PaymentDue, PaymentTran, PINChange, PurchaseAth, PurchaseTran, RelatedAccountChange, SpendingLimitChange, StatusChange
<a href="#">AlertIdent</a>	NC-36	Optional	Alternate Alert Identifier
<a href="#">TrnType</a>	Aggregate	Optional	Transaction Type
<a href="#">AlertDesc</a>	C-80	Optional	Alert Description
<a href="#">AlertUse</a>	Open Enum	Optional	Alert Use  Valid values include: Mandatory, Optional  Default Value: Optional
<a href="#">SelectInd</a>	Boolean	Optional	Select Indicator
<a href="#">DeliveryInstruction</a>	Aggregate	Optional Repeating	Delivery Instruction
<a href="#">AlertAmt</a>	Aggregate	Optional	Alert Amount
<a href="#">AlertPercent</a>	Decimal	Optional	Alert Percent
<a href="#">RecurRule</a>	Aggregate	Optional	Defines a rule for events that recur in a specific defined pattern.

<a href="#">TimeRange</a>	Aggregate	Optional	A time of day that a party does not want to receive alerts.
end Aggregate			

---

### Alert Inquiry Request <AlertInqRq>

Alert Inquiry Request

See the matching response message [AlertInqRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">DocCtrlIn</a>	Aggregate	Optional	Document Control Input
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
begin-xor		Optional Repeating	
<a href="#">AlertSel</a>	Aggregate	Required	Alert Selection Aggregate
<a href="#">RecSelect</a>	IfxPath	Required	Record Select
end-xor			
end Aggregate			

---

### Alert Inquiry Response <AlertInqRs>

Alert Inquiry Response

See the matching request message [AlertInqRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			

begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">DocCtrlOut</a>	Aggregate	Optional	Document Control Output
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">AlertRec</a>	Aggregate	Required Repeating	Alert Record
end-block			
end Aggregate			

## Alert Keys Aggregate <AlertKeys>

Alert Keys Aggregate

Extends: [BaseKeys](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseKeys			
end Elements from BaseKeys			
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
begin-xor		Required	
<a href="#">AlertId</a>	Identifier	Required	Alert Identifier
begin-block		Required	
begin-or		Required	
<a href="#">AcctKeys</a>	Aggregate	Optional	Account Keys Aggregate
<a href="#">PartyKeys</a>	Aggregate	Optional	Party Keys Aggregate
<a href="#">CardKeys</a>	Aggregate	Optional	Card Keys Aggregate
<a href="#">CustPayeeKeys</a>	Aggregate	Optional	Customer Payee Keys Aggregate
end-or			
<a href="#">AlertType</a>	Open Enum	Optional	Alert Type  Valid values include: AddressChange, CardRequest, CashTran, CreditAth,

			CreditLimitChange, CreditLimitUsage, CreditTran, CurrentBalance, DebitAth, DebitTran, DisputeOpened, DisputeResolved, HighBalance, Inactive, LowBalance, NegativeBalance, Overdrawn, PaymentDue, PaymentTran, PINChange, PurchaseAth, PurchaseTran, RelatedAccountChange, SpendingLimitChange, StatusChange
<a href="#">AlertIdent</a>	NC-36	Optional	Alternate Alert Identifier
end-block			
end-xor			
end Aggregate			

---

### Alert Modify Request <AlertModRq>

Alert Modify Request

See the matching response message [AlertModRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">AlertKeys</a>	Aggregate	Required	Alert Keys Aggregate
begin-block		Required Repeating	
<a href="#">AlertInfo</a>	Aggregate	Required	Alert Information Aggregate
begin-xor		Optional Repeating	
<a href="#">DelElements</a>	lfxPath	Required	An lfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to delete. It is an error if one attempts to delete Required fields.
<a href="#">UpdElements</a>	lfxPath	Required	An lfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to update. The new value of the updated element is in the accompanying xxxInfo aggregate.
<a href="#">NewElements</a>	lfxPath	Required	An lfxPath (relative to a base of this IFX

			object's Info aggregate) which indicates which element to add. The new value of the new elements is in the accompanying xxxInfo aggregate.
end-xor			
end-block			
end Aggregate			

---

### Alert Modify Response <AlertModRs>

Alert Modify Response

See the matching request message [AlertModRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">AlertRec</a>	Aggregate	Required	Alert Record
<a href="#">AlertStatusRec</a>	Aggregate	Required	Alert Status Record
end-xor			
end-block			
end Aggregate			

---

### Alert Percent <AlertPercent>

A percentage associated with alert that defines the triggering mechanism.

Datatype: **Decimal**



---

## Alert Record <AlertRec>

Alert Record

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">AlertId</a>	Identifier	Required	Alert Identifier
<a href="#">AlertInfo</a>	Aggregate	Required	Alert Information Aggregate
<a href="#">AlertEnvr</a>	Aggregate	Optional	Alert Environment Aggregate
<a href="#">AlertStatus</a>	Aggregate	Required	Alert Status Aggregate
end Aggregate			

---

## Alert Reference Aggregate <AlertRef>

Alert Reference Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">AlertKeys</a>	Aggregate	Required	Alert Keys Aggregate
<a href="#">AlertRec</a>	Aggregate	Required	Alert Record
<a href="#">AlertInfo</a>	Aggregate	Required	Alert Information Aggregate
end-xor			
end Aggregate			

---

## Alert Selection Aggregate <AlertSel>

Alert Selection Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required Repeating	
<a href="#">AlertKeys</a>	Aggregate	Required	Alert Keys Aggregate
begin-block		Required	
<a href="#">AcctKeys</a>	Aggregate	Optional	Account Keys Aggregate
<a href="#">PartyKeys</a>	Aggregate	Optional	Party Keys Aggregate
<a href="#">CardKeys</a>	Aggregate	Optional	Card Keys Aggregate
<a href="#">CustPayeeKeys</a>	Aggregate	Optional	Customer Payee Keys Aggregate
<a href="#">AlertType</a>	Open Enum	Optional	Alert Type  Valid values include: AddressChange, CardRequest, CashTran, CreditAth, CreditLimitChange, CreditLimitUsage, CreditTran, CurrentBalance, DebitAth, DebitTran, DisputeOpened, DisputeResolved, HighBalance, Inactive, LowBalance, NegativeBalance, Overdrawn, PaymentDue, PaymentTran, PINChange, PurchaseAth, PurchaseTran, RelatedAccountChange, SpendingLimitChange, StatusChange
end-block			
end-xor			
end Aggregate			

---

## Alert Status Aggregate <AlertStatus>

Alert Status Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">AlertStatusCode</a>	Open Enum	Required	Alert Status Code

			Valid values include: Deleted, Valid
<a href="#">StatusDesc</a>	C-255	Optional	Status Description
<a href="#">EffDt</a>	DateTime	Optional	Effective Date Time
<a href="#">StatusModBy</a>	Open Enum	Optional	Status Modified By
			Valid values include: BPP, BPPSR, BSP, BPSR, CPP, CPPSR, CSP, CSPSR, Customer, FI, PSP
end Aggregate			

---

### Alert Status Code <AlertStatusCode>

Alert Status Code

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
Valid	Valid	N
Deleted	Deleted	N

---

### Alert Status Inquiry Request <AlertStatusInqRq>

Alert Status Inquiry Request

See the matching response message [AlertStatusInqRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input

begin-xor		Optional Repeating	
<a href="#">AlertSel</a>	Aggregate	Required	Alert Selection Aggregate
<a href="#">RecSelect</a>	IfxPath	Required	Record Select
end-xor			
end Aggregate			

---

### Alert Status Inquiry Response <AlertStatusInqRs>

Alert Status Inquiry Response

See the matching request message [AlertStatusInqRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">AlertStatusRec</a>	Aggregate	Optional Repeating	Alert Status Record
end-block			
end Aggregate			

---

### Alert Status Modify Request <AlertStatusModRq>

Alert Status Modify Request

See the matching response message [AlertStatusModRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">AlertKeys</a>	Aggregate	Required	Alert Keys Aggregate
<a href="#">AlertStatus</a>	Aggregate	Required	Alert Status Aggregate
end Aggregate			

---

### Alert Status Modify Response <AlertStatusModRs>

Alert Status Modify Response

See the matching request message [AlertStatusModRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">AlertStatusRec</a>	Aggregate	Required	Alert Status Record
end-block			
end Aggregate			

---

### Alert Status Record <AlertStatusRec>

Alert Status Record

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes

begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">AlertId</a>	Identifier	Required	Alert Identifier
<a href="#">AlertStatus</a>	Aggregate	Required	Alert Status Aggregate
end Aggregate			

## Alert Type <AlertType>

The type of alert or alert name.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
LowBalance	Send an alert when the account balance goes below a customer specified amount.	N
AddressChange	Send an alert when the address associated with the account, card or party has been modified.	N
HighBalance	Send an alert when the account balance goes above a specified amount.	N
Overdrawn	Send an alert when the account has been overdrawn.	N
PaymentTran	Send an alert when a Payment greater than a customer specified amount has been posted.	N
DebitTran	Send an alert when a debit transaction greater than a customer specified amount has been posted.	N
CreditTran	Send an alert when a credit transaction greater than a customer specified amount has been posted.	N
CashTran	Send an alert when a cash advance transaction greater than a customer specified amount has been posted.	N
PurchaseTran	Send an alert when a purchase transaction greater than a customer specified amount has been posted.	N
Inactive	Send an alert when the account is considered inactive by the FI.	N
NegativeBalance	Send an alert when a negative (debit) balance occurs on the account following authorization of a debit transaction. Used for prepaid accounts.	N
StatusChange	Send an alert when the plastic status is changed.	N
PINChange	Send an alert when the PIN associated with a card has been changed.	N
SpendingLimitChange	Send an alert when changes are applied to the spending limits.	N
CreditLimitChange	Send an alert when changes are applied to the credit	N

	limit.	
RelatedAccountChange	Send an alert when a change or deletion of a related account to/from the debit card relationship is applied.	N
DebitAth	Send an alert when a debit authorization is processed (could be approved or declined) for an account that is over the amount specified by the customer.	N
CreditAth	Send an alert when a credit authorization is processed (could be approved or declined) for an account that is over the amount specified by the customer.	N
PurchaseAth	Send an alert when a purchase authorization is processed for an account that is over the amount specified by the customer.	N
CreditLimitUsage	Send an alert when the account balance is within a percentage or an amount of the credit limit where the percentage or amount is specified by the customer.	N
CurrentBalance	Send an alert with the current account balance at a specific recurring time specified by the customer (day of week and time of day etc.).	N
DisputeOpened	Send an alert when a case is opened for a dispute of a transaction.	N
DisputeResolved	Send an alert when a case is resolved and closed for a dispute of a transaction.	N
CardRequest	Send an alert when a new card order is placed for the account.	N
PaymentDue	Send an alert when the payment is due within a number of days where the number of days is specified by the customer.	N

---

### Alert Use <AlertUse>

Defines if the alert is defined as mandatory or optional by the financial institution.

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
Mandatory	The alert is required.	N
Optional	The alert is optional.	Y

---

### All Day Event <AllDayEvent>

Indicates if timeframe is all day or for a specified time. Valid values:  
TRUE - all day event  
FALSE - not all day event  
If = FALSE, then and should include the time.

Datatype: **Boolean**

---

### Allocate Allowed <AllocateAllowed>

Allocate Allowed. If True, the <BillSummAmtId> for the amount specified may be used to indicate the allocation breakdown of the total payment amount within the <PmtInfo> aggregate in a payment message. If False or omitted, the amount specified is for information only.

Datatype: **Boolean**

---

### Alternate Keys <AlternateKeys>

Access to the all keys through BaseKeys

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">BaseKeys</a>	Abstract Aggregate	Required	<b>Valid Aggregates are:</b> AcctKeys AcctStmtKeys AcctTrnImgKeys AcctTrnKeys AlertKeys BillerKeys BillKeys CardAcctRelKeys CardKeys CardOrderKeys ChkAcceptKeys ChkIssueKeys ChkOrdKeys ChksumKeys CompRemitStmtKeys



			CreditKeys CustPayeeKeys DebitKeys DepBkOrdKeys DevKeys DiscKeys DisputeKeys ForExDealKeys ForExQuoteKeys ForExRateSheetKeys MediaAcctKeys MediaAcctTrnKeys NoteKeys PartyAcctRelKeys PartyCardRelKeys PartyKeys PartyPartyRelKeys PartySvcAcctRelKeys PartySvcRelKeys PassbkItemKeys PassbkKeys PmtBatchKeys PmtBatchStatKeys PmtEnclKeys PmtKeys PurchItemKeys RecurChkOrdKeys RecurPmtKeys RecurXferKeys RemitKeys SecObjKeys StdPayeeKeys StopChkKeys SvcKeys SvcProviderKeys TerminalObjKeys TerminalSPObjKeys XferKeys
end Aggregate			Base Keys Aggregate

---

**Amount <Amt>**

Amount

Datatype: **Decimal**

---

**Amount X <AmtX>**

Amount referred to as Amount X in the CVM Rule definition.

Extends: [CurAmt](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from CurAmt			
<a href="#">Amt</a>	Decimal	Optional	Amount.
<a href="#">CurCode</a>	Aggregate	Optional	Currency Code
end Elements from CurAmt			
begin Aggregate			
end Aggregate			

---

### Amount Y <AmtY>

Amount referred to as Amount Y in the CVM Rule definition.

Extends: [CurAmt](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from CurAmt			
<a href="#">Amt</a>	Decimal	Optional	Amount.
<a href="#">CurCode</a>	Aggregate	Optional	Currency Code
end Elements from CurAmt			
begin Aggregate			
end Aggregate			

---

### Annual Income Amount <AnnualIncome>

Extends: [CurAmt](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
-----	------	-------	---------------------------

Tag	Type	Usage	Description/Context notes
begin Elements from CurAmt			
<a href="#">Amt</a>	Decimal	Optional	Amount.
<a href="#">CurCode</a>	Aggregate	Optional	Currency Code
end Elements from CurAmt			
begin Aggregate			
end Aggregate			

---

### Answer <Answer>

Textual response to the question.

Datatype: **C-255**

---

### Application Identifier <Appldent>

Application Identifier (AID). It is also referred to as the Application Definition File Name (ADF Name) and Dedicated File Name (DF Name) in the context of the applications supported by an Integrated Circuit Card (ICC). The data value contained by this element is in hexadecimal characters, e.g., Hex "4F" value is specified in two characters as "4" & "F". The AID consists of two parts:

- (i) A Registered Application Provider Identifier (RID) of 5 bytes, unique to an application provider and assigned according to ISO/IEC 7816-5.
- (ii) An optional field assigned by the application provider of up to 11 bytes. This field is known as a Proprietary Application Identifier Extension (PIX) and may contain any 0-11 byte value specified by the provider. The meaning of this field is defined only for the specific RID and need not be unique across different RIDs.

Datatype: **HexBin-16**

---

### Application <Application>

The point of service applications that the terminal supports.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
ATM		Y
POS		N
Teller		N
CallCenter		N
Other		N

---

### Application Primary Account Number <AppPan>

Application Primary Account Number (PAN). Indicates the valid cardholder account number, padded to the right with hex 'F' values. The data value contained by this element is in hexadecimal characters.

The data associated with this element is not needed if the <Trk2EquivData> already contains this information and is equivalent.

Datatype: **HexBin-20**

---

### Application PAN Sequence Number <AppPanSeq>

Application PAN Sequence Number. Sometimes, also referred to as the Member Number. Identifies and differentiates cards with the same PAN (e.g., cards with the same PAN for different family members). The data value contained by this element is in hexadecimal characters.

Datatype: **HexBin-1**

---

### Approval Identifier <ApprovalIdent>

Approval Identifier. This is an identifier that refers to an approval event

that occurred at the authorizing server.

Datatype: **NC-36**

---

**Arbitration Amount <ArbitrationAmt>**

The amount of the transaction that is in arbitration

Extends: [CurAmt](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from CurAmt			
<a href="#">Amt</a>	Decimal	Optional	Amount.
<a href="#">CurCode</a>	Aggregate	Optional	Currency Code
end Elements from CurAmt			
begin Aggregate			
end Aggregate			

---

**Arbtration End Date <ArbitrationEndDt>**

The date on which the dispute was resolved in arbitration

Datatype: **Date**

---

**Arbitration Start Date <ArbitrationStartDt>**

The date on which the dispute started into arbitration

Datatype: **Date**

---

**Arbitration Status Code <ArbitrationStat>**

Arbitration Status Code

Datatype: **Open Enum**

**Enumerated Values**

Value	Description	Is default
Declined	Declined	N
Expired	Expired	N
RulingFor	Ruling For Issuer	N
RulingAgainst	Ruling Against Issuer	N
Pending	Pending	N

---

**Arrest <Arrest>**

Indicates whether an arrest was made.

Datatype: **Boolean**

---

**Arrival Date <ArrivalDt>**

The arrival date provided by the airline or railway, per trip leg.

Datatype: **Date**

---

**Arrival Time <ArrivalTime>**

The arrival time provided by the airline or railway, per trip leg.

Datatype: **Time**

---

### **Art Work Identifier <ArtWorkIdent>**

For valid cuts and pridemarks. This is dependent on <ChkBkStyleId> where it is used.

Datatype: **NC-36**

---

### **Asynchronous Request Identifier <AsyncRqUID>**

Sent by a client to retrieve a response that was asynchronously generated by a server, generally in the case where the response would have taken too long to build and be able to be sent synchronously.

For more information, see [Asynchronous Response](#) and [Status](#).

Datatype: **UUID**

---

### **Asynchronous Response Data <AsyncRsData>**

The Asynchronous Response Data aggregate contains information required by a client to request the response to a message that could not be processed in a reasonable time by the server.

See [Asynchronous Responses](#) for a more detailed explanation.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">AsyncRqUID</a>	UUID	Required	Asynchronous Request Identifier. This is the request identifier of the message which is asynchronously processed.

<a href="#">AvailDt</a>	DateTime	Optional	Available DateTime. The projected time at which the response will be available.
<a href="#">ExpDt</a>	DateTime	Optional	Expiration DateTime. The time at which the cached response will be purged at the server.
end Aggregate			

---

### Authorization Add Message <AthAddRq>

Authorization Add Message

See the matching response message [AthAddRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">AthInfo</a>	Aggregate	Required	Authorization Information Aggregate
end Aggregate			

---

### Authorization Add Response <AthAddRs>

Authorization Add Response

See the matching request message [AthAddRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header



end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">AthRec</a>	Aggregate	Required	Authorization Record
<a href="#">AthStatusRec</a>	Aggregate	Required	Authorization Status Record
end-xor			
end-block			
end Aggregate			

---

### Authorization Advise Message <AthAdviseRq>

Authorization Advise Message

See the matching response message [AthAdviseRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
begin-xor		Required	
<a href="#">AthRec</a>	Aggregate	Required	Authorization Record
<a href="#">AthStatusRec</a>	Aggregate	Required	Authorization Status Record
end-xor			
end Aggregate			

---

### Authorization Advise Response <AthAdviseRs>

Authorization Advise Response

See the matching request message [AthAdviseRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
-----	------	-------	---------------------------

begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">AthRec</a>	Aggregate	Required	Authorization Record
<a href="#">AthStatusRec</a>	Aggregate	Required	Authorization Status Record
end-xor			
end-block			
end Aggregate			

---

### Authorization Audit Request <AthAudRq>

Authorization Audit Request

See the matching response message [AthAudRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
<a href="#">DtRange</a>	Aggregate	Optional	Date Range
<a href="#">Method</a>	Closed Enum	Optional Repeating	Method <hr/> Valid values are limited to: Add, Advise, AuthMod, Can, Del, Mod, StatusMod
<a href="#">AthKeys</a>	Aggregate	Optional Repeating	Authorization Keys Aggregate
end Aggregate			

---

## Authorization Audit Response <AthAudRs>

Authorization Audit Response

See the matching request message [AthAudRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">AthRsMsg</a>	Aggregate	Optional Repeating	Authorization Response Messages Aggregate
end-block			
end Aggregate			

---

## Authorization Cancel Request <AthCanRq>

Authorization Cancel Request

See the matching response message [AthCanRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">AthKeys</a>	Aggregate	Required	Authorization Keys Aggregate
end Aggregate			

---

## Authorization Cancel Response <AthCanRs>

Authorization Cancel Response

See the matching request message [AthCanRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">AthRec</a>	Aggregate	Required	Authorization Record
<a href="#">AthStatusRec</a>	Aggregate	Required	Authorization Status Record
end-xor			
end-block			
end Aggregate			

---

## Authorization Clearing Status <AthClearingStat>

The status of the authorization related to the processing of the associated clearing transaction. Examples are: Matched, Unmatched, Fraud, Informational

Datatype: **C-40**

---

## Authorization Environment Aggregate <AthEnvr>

Authorization Environment Aggregate

Extends: [BaseEnvr](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseEnvr			
<a href="#">CreatedDt</a>	DateTime	Required	Created Date/Time. The date/time the object was created.
<a href="#">CreateRefIdent</a>	NC-36	Optional	An identifier used to uniquely identify the creation of this object to the system that created the object. This will usually be a link to reference information used in creating the object.
<a href="#">ClientCreateDt</a>	DateTime	Optional	The created date/time as reported by the client. This can vary from the object creation date/time due to time zone differences, communication delays, etc
<a href="#">ClientBusinessDt</a>	DateTime	Optional	The date/time that the client recorded this object for operational purposes. This date/time will often be used to manage the availability of information or funds.
<a href="#">LastUpdateDt</a>	DateTime	Optional	Last update Date/Time. The date/time the object was created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LastUpdateRqUID</a>	UUID	Optional	Last update RqUID. The RqUID from the message that resulted in th object being created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LoginName</a>	C-40	Optional	The login name (or Id) of the individual that authorized this object to be created. This is typically used when the object is created on behalf of its owner by someone who is not normally represented as a Party (i.e., an employee or agent).
<a href="#">PartyKeys</a>	Aggregate	Optional	Reference to the Party that this object is owned by or authorized by.
<a href="#">CardKeys</a>	Aggregate	Optional	This is dependent on Card proposal. Currently this is implemented as the CardLogicalData aggregate.
<a href="#">PassbkKeys</a>	Aggregate	Optional	Currently PassbkAcceptData.
<a href="#">NetworkTrnData</a>	Aggregate	Optional	Network Transaction Information. Identification and location of the terminal from which the message originates.
<a href="#">ServerTerminalSeqNum</a>	NC-36	Optional	Server Terminal Sequence Number. A

			terminal sequence number generated by the server to identify this object. This number is used in ATM and POS environments to uniquely identify transactions (with terminal name and date) for transaction management.
<a href="#">PointOfServiceData</a>	Aggregate	Optional	The Point of Service Data. This aggregate contains information about the environment in which this message originated.
<a href="#">ClientTerminalSeqNum</a>	NC-36	Optional	Client Terminal Sequence Number. A terminal sequence number generated by the client to identify this object. This number is used in ATM, POS, Branch, Call Center and Teller environments to uniquely identify transactions at the client (with terminal name and date). This number is often required when requesting supporting documentation related to a customer transaction.
end Elements from BaseEnvr			
begin Aggregate			
<a href="#">AcctStatusCode</a>	Open Enum	Optional	Account Status Code Valid values include: Abandoned, Active, ChargedOff, ChargeOffInProcess, Closed, Closing, Delinquent, Dormant, Escheat, Frozen, Funded, Inactive, NotAvail, NotFunded, Open, PaidOff, Terminated, Unreedemed
<a href="#">CardStatusCode</a>	Open Enum	Optional	Card Status Code Valid values include: Deleted, Valid
<a href="#">ExpDt</a>	DateTime	Optional	Expiration Date
end Aggregate			

---

### Authorization Expiration Date <AthExpDt>

The calculated date that the authorization hold expires and the amount is returned to the available balance.

Datatype: **Date**

---

**Authorization Identifier <AthId>**

Authorization Identifier

Datatype: **Identifier**

---

**Authorization Information Aggregate <AthInfo>**

Authorization Information Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">AthType</a>	Open Enum	Required	Authorization Type <hr/> Valid values include: PreAuthorization, Cash, CashReversal, CreditVoucher, CreditVoucher Reversal, Load, Payment, Purchase, PurchaseReversal, Reload, TransferFrom, TransferTo
<a href="#">CompositeCurAmt</a>	Aggregate	Optional Repeating	Composite Currency Amount
<a href="#">AcctKeys</a>	Aggregate	Optional	Account Keys Aggregate
<a href="#">DebitCredit</a>	Closed Enum	Required	Debit Credit Indicator <hr/> Valid values are limited to: Credit, Debit
<a href="#">EffDt</a>	DateTime	Optional	Effective Date Time
<a href="#">AthProcCode</a>	C-6	Optional	Authorization Processing Code
<a href="#">Duration</a>	Aggregate	Optional	Duration
<a href="#">AthExpDt</a>	Date	Optional	Authorization Expiration Date
<a href="#">StandInInd</a>	Boolean	Optional	Stand In Indicator
<a href="#">StandInLoc</a>	C-80	Optional	Stand In Location
<a href="#">Name</a>	C-40	Optional	Name
<a href="#">PreAthInd</a>	Boolean	Optional	Pre Authorization Indicator
end Aggregate			

---

## Authorization Inquiry Request <AthInqRq>

Authorization Inquiry Request

See the matching response message [AthInqRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">DocCtrlIn</a>	Aggregate	Optional	Document Control Input
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
begin-xor		Optional Repeating	
<a href="#">AthSel</a>	Aggregate	Required	Authorization Selection Aggregate
<a href="#">RecSelect</a>	IfxPath	Required	Record Select
end-xor			
end Aggregate			

---

## Authorization Inquiry Response <AthInqRs>

Authorization Inquiry Response

See the matching request message [AthInqRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			



begin-block		Optional	required if message is successful
<a href="#">DocCtrlOut</a>	Aggregate	Optional	Document Control Output
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">AthRec</a>	Aggregate	Required Repeating	Authorization Record
end-block			
end Aggregate			

---

### Authorization Keys Aggregate <AthKeys>

Authorization Keys Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
begin-xor		Required	
<a href="#">AthId</a>	Identifier	Required	Authorization Identifier
end-xor			
end Aggregate			

---

### Authorization Modify Request <AthModRq>

Authorization Modify Request

See the matching response message [AthModRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">AthKeys</a>	Aggregate	Required	Authorization Keys Aggregate

begin-block		Required Repeating	
<a href="#">AthInfo</a>	Aggregate	Required	Authorization Information Aggregate
begin-xor		Required Repeating	
<a href="#">DelElements</a>	lfxPath	Required	An lfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to delete. It is an error if one attempts to delete Required fields.
<a href="#">UpdElements</a>	lfxPath	Required	An lfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to update. The new value of the updated element is in the accompanying xxxInfo aggregate.
<a href="#">NewElements</a>	lfxPath	Required	An lfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to add. The new value of the new elements is in the accompanying xxxInfo aggregate.
end-xor			
end-block			
end Aggregate			

## Authorization Modify Response <AthModRs>

Authorization Modify Response

See the matching request message [AthModRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">AthRec</a>	Aggregate	Required	Authorization Record
<a href="#">AthStatusRec</a>	Aggregate	Required	Authorization Status Record

end-xor
end-block
end Aggregate

---

### Authorization Processing Code <AthProcCode>

The authorization processing code received from the network defining the Transaction Type, From Account Type and To Account Type.

Datatype: **C-6**

---

### Authorization Record <AthRec>

Authorization Record

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">AthId</a>	Identifier	Required	Authorization Identifier
<a href="#">AthInfo</a>	Aggregate	Required	Authorization Information Aggregate
<a href="#">AthEnvr</a>	Aggregate	Optional	Authorization Environment Aggregate
<a href="#">AthStatus</a>	Aggregate	Required	Authorization Status Aggregate
end Aggregate			

---

### Authorization Reference Aggregate <AthRef>

Authorization Reference Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
-----	------	-------	---------------------------

begin Aggregate			
begin-xor		Required	
<a href="#">AthKeys</a>	Aggregate	Required	Authorization Keys Aggregate
<a href="#">AthRec</a>	Aggregate	Required	Authorization Record
<a href="#">AthInfo</a>	Aggregate	Required	Authorization Information Aggregate
end-xor			
end Aggregate			

---

### Authorization Response <AthResponse>

The authorization response.

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
Approve	Approve Authorization	N
Decline	Decline Authorization	N
PickUp	Pick Up Card	N
Refer	Refer to Issuer	N

---

### Authorization Reversal Request <AthRevRq>

Authorization Reversal Request

See the matching response message [AthRevRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header

<a href="#">RevReasonCode</a>	Aggregate	Required	Reversal Reason Code
<a href="#">Desc</a>	C-80	Optional	Description
<a href="#">AthRqMsg</a>	Aggregate	Required	Authorization Request Messages Aggregate
end Aggregate			

---

## Authorization Reversal Response <AthRevRs>

Authorization Reversal Response

See the matching request message [AthRevRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
end Aggregate			

---

## Authorization Request Messages Aggregate <AthRqMsg>

Authorization Request Messages Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">AthAddRq</a>	Aggregate	Required	Authorization Add Message
<a href="#">AthModRq</a>	Aggregate	Required	Authorization Modify Request
<a href="#">AthCanRq</a>	Aggregate	Required	Authorization Cancel Request
<a href="#">AthInqRq</a>	Aggregate	Required	Authorization Inquiry Request

<a href="#">AthAdviseRq</a>	Aggregate	Required	Authorization Advise Message
<a href="#">AthAudRq</a>	Aggregate	Required	Authorization Audit Request
<a href="#">AthSyncRq</a>	Aggregate	Required	Authorization Sync Request
<a href="#">AthStatusModRq</a>	Aggregate	Required	Authorization Status Modify Request
<a href="#">AthStatusInqRq</a>	Aggregate	Required	Authorization Status Inquiry Request
<a href="#">RevRqUID</a>	UUID	Required	Reversal Request Unique ID
end-xor			
end Aggregate			

---

### Authorization Response Messages Aggregate <AthRsMsg>

Authorization Response Messages Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">MsgRecDt</a>	Timestamp	Optional	Audit Record Creation Date
begin-xor		Required	
<a href="#">AthAddRs</a>	Aggregate	Required	Authorization Add Response
<a href="#">AthModRs</a>	Aggregate	Required	Authorization Modify Response
<a href="#">AthCanRs</a>	Aggregate	Required	Authorization Cancel Response
<a href="#">AthRevRs</a>	Aggregate	Required	Authorization Reversal Response
<a href="#">AthInqRs</a>	Aggregate	Required	Authorization Inquiry Response
<a href="#">AthAdviseRs</a>	Aggregate	Required	Authorization Advise Response
<a href="#">AthStatusModRs</a>	Aggregate	Required	Authorization Status Modify Response
<a href="#">AthStatusInqRs</a>	Aggregate	Required	Authorization Status Inquiry Response
end-xor			
end Aggregate			

---

### Authorization Selection Aggregate <AthSel>

## Authorization Selection Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required Repeating	
<a href="#">AthKeys</a>	Aggregate	Required	Authorization Keys Aggregate
begin-block		Required	
<a href="#">AcctKeys</a>	Aggregate	Optional	Account Keys Aggregate
<a href="#">DtRange</a>	Aggregate	Optional	Date Range
<a href="#">AthType</a>	Open Enum	Optional	Authorization Type  Valid values include: PreAuthorization, Cash, CashReversal, CreditVoucher, CreditVoucher Reversal, Load, Payment, Purchase, PurchaseReversal, Reload, TransferFrom, TransferTo
<a href="#">CurAmtRange</a>	Aggregate	Optional	Currency Amount Range
end-block			
end-xor			
end Aggregate			

---

## Authorization Status Aggregate <AthStatus>

Authorization Status Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">AthStatusCode</a>	Open Enum	Required	Authorization Status Code  Valid values include: Active, Delete, Inactive, PendDelete, Pending
<a href="#">StatusDesc</a>	C-255	Optional	Status Description
<a href="#">EffDt</a>	DateTime	Optional	Effective Date Time
<a href="#">ApprovalIdent</a>	NC-36	Optional	Approval Identifier
<a href="#">StatusModBy</a>	Open Enum	Optional	Status Modified By

			Valid values include: BPP, BPPSR, BSP, BPSR, CPP, CPPSR, CSP, CSPSR, Customer, FI, PSP
<a href="#">AthResponse</a>	Open Enum	Optional	Authorization Response Valid values include: Approve, Decline, PickUp, Refer
<a href="#">DeclineReason</a>	C-40	Optional Repeating	Decline Reason
<a href="#">AthClearingStat</a>	C-40	Optional	Authorization Clearing Status
end Aggregate			

---

### Authorization Status Code <AthStatusCode>

Authorization Status Code

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
Pending	Pending	N
Active	Active	N
Inactive	Inactive	N
PendDelete	Pending Delete	N
Delete	Delete	N

---

### Authorization Status Inquiry Request <AthStatusInqRq>

Authorization Status Inquiry Request

See the matching response message [AthStatusInqRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes



begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">DocCtrlIn</a>	Aggregate	Optional	Document Control Input
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
begin-xor		Optional Repeating	
<a href="#">AthSel</a>	Aggregate	Required	Authorization Selection Aggregate
<a href="#">RecSelect</a>	IfxPath	Required	Record Select
end-xor			
end Aggregate			

---

### Authorization Status Inquiry Response <AthStatusInqRs>

Authorization Status Inquiry Response

See the matching request message [AthStatusInqRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">AthStatusRec</a>	Aggregate	Optional Repeating	Authorization Status Record
end-block			
end Aggregate			

---

### Authorization Status Modify Request <AthStatusModRq>

## Authorization Status Modify Request

See the matching response message [AthStatusModRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">AthKeys</a>	Aggregate	Required	Authorization Keys Aggregate
<a href="#">AthStatus</a>	Aggregate	Required	Authorization Status Aggregate
end Aggregate			

---

## Authorization Status Modify Response <AthStatusModRs>

Authorization Status Modify Response

See the matching request message [AthStatusModRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">AthStatusRec</a>	Aggregate	Required	Authorization Status Record
end-block			
end Aggregate			

---

## Authorization Status Record <AthStatusRec>

## Authorization Status Record

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">AthId</a>	Identifier	Required	Authorization Identifier
<a href="#">AthStatus</a>	Aggregate	Required	Authorization Status Aggregate
end Aggregate			

---

## Authorization Sync Request <AthSyncRq>

Authorization Sync Request

See the matching response message [AthSyncRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
<a href="#">AthKeys</a>	Aggregate	Optional Repeating	Authorization Keys Aggregate
end Aggregate			

---

## Authorization Sync Response <AthSyncRs>

Authorization Sync Response

See the matching request message [AthSyncRq](#)

Datatype: **Aggregate**

---

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">AthRsMsg</a>	Aggregate	Optional Repeating	Authorization Response Messages Aggregate
end-block			
end Aggregate			

---

### Authorization Type <AthType>

Authorization Type.

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
Purchase	Purchase	N
Cash	Cash	N
TransferFrom	Transfer From	N
CreditVoucher Reversal	Credit Voucher Reversal	N
PreAuthorization	Pre Authorization	N
PurchaseReversal	Purchase Reversal	N
CreditVoucher	Credit Voucher	N
TransferTo	Transfer To	N
CashReversal	Cash Reversal	N
Load	Load	N
Reload	Reload	N
Payment	Payment	N

---

### Authorization Response Code <AuthRsCode>

Authorization Response Code. A code that defines the disposition of an EMV response message.

As a minimum, the codes reflecting the following responses should be defined in the response messages from the Issuer to the terminal: Online Approval, Online Decline, Referral (initiated by Issuer), and Capture Card. In addition, the terminal shall be able to generate (and transmit to the ICC) the codes reflecting the following new responses when transactions are not authorized online: Unable to go Online, Offline Approved; Unable to go Online, Offline Declined; Offline Approved; Offline Declined; Approval (after card-initiated referral); and Decline (after card-initiated referral).

The codes are to be set by the individual payment systems.

The terminal shall never modify the Authorization Response Code returned in the response message. The card's final decision is reflected in the Cryptogram Information Data and not in the authorization Response Code.

Datatype: **C-2**

---

#### **Auto Reissue <AutoReissue>**

Automatically reissue the card when it expires. If true, this flag causes the server to schedule card reissue either at the next issue date or several months before the expiration date. If this option is false manual intervention is required to initiate a card reissue. Either the <NextIssDt> or the <ExpDt> field must be present if this field is true.

Datatype: **Boolean**

---

#### **Auto Replacement <AutoReplacement>**

Automatically issue a replacement card if the existing card becomes unavailable. If true, this flag causes the server to schedule card reissue if the card status is changed to indicate that it is no longer available to the customer. If this option is false manual intervention is required to initiate a card replacement.

Datatype: **Boolean**

---

**Available Date <AvailDt>**

Available Date.

The date on which funds become available in an account. Optionally returned with transaction data in the Bank Statement Download response message as part of the <StmtTrn> aggregate.

Datatype: **DateTime**

---

**Back Date Allowed Indicator <BackDateAllowInd>**

Indicates if a rate change is allowed to be back dated.

Datatype: **Boolean**

---

**Interim Balance Amount <BalAmt>**

The account balance after the processing of this item, prior to the processing of subsequent items.

Extends: [CurAmt](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from CurAmt			
<a href="#">Amt</a>	Decimal	Optional	Amount.
<a href="#">CurCode</a>	Aggregate	Optional	Currency Code
end Elements from CurAmt			
begin Aggregate			
end Aggregate			

---

## Balance Percent <BalPercent>

Percentage of a balance.

Datatype: **Decimal**

---

## Balance Type <BalType>

Balance Type

Extended By: [PercentBalType](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">BalTypeSource</a>	Open Enum	Optional	Balance Type Source Valid values include: BAI, IFX, TMW Default Value: IFX
<a href="#">BalTypeValues</a>	Open Enum	Required	Balance Type Values Valid values include: Avail, AvailCredit, AvgLedger, ClosingLedger, ClosingOutstanding, CreditHeld, CreditLimit, Current, DebitHeld, Escrow, Ledger, MinLedger, OpeningLedger, OpeningOutstanding, Outstanding, PayoffAmt, Principal, RwdBonus, RwdReg, TotalHeld
end Aggregate			

---

## Balance Type Source <BalTypeSource>

Balance Type Source

Datatype: **Open Enum**

## Enumerated Values

---

Value	Description	Is default
BAI		N
IFX		Y
TMW		N

---

## Balance Type Values <BalTypeValues>

Balance Type Values.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Ledger	Ledger Balance. The record of the balance in a customer's deposit account, as per the financial institution's records. The ledger balance may not reflect all deposits, if the financial institution has not yet received actual payment for them.	N
OpeningLedger	Opening Ledger Balance of a deposit account at the beginning of the statement period.	N
ClosingLedger	Closing Ledger Balance of a deposit account at the end of the statement period.	N
MinLedger	Minimum Ledger Balance of a deposit account.	N
AvgLedger	Average Ledger Balance of a deposit account.	N
Avail	Available balance of a deposit account. The portion of a customer's ledger balance on which the financial institution has placed no restrictions.	N
Current	The current balance of a customer's account at a financial institution. This is to be used to distinguish from a ledger balance (balance as of previous posting cycle) for financial institutions that maintain an online balance based on current day activities that have been memoposted to the account, such as ATM deposits or withdrawals. This can also vary from the available balance, which indicates the funds currently available to the customer.	N
Outstanding	Outstanding Balance. The uncollected or unpaid balance of a loan or credit card account.	N
OpeningOutstanding	Opening Outstanding Balance. The outstanding balance at the beginning of the statement period.	N
ClosingOutstanding	Closing Outstanding Balance. The outstanding balance at the end of the statement period.	N
Principal	Principal balance. The uncollected or unpaid balance of a loan or credit card exclusive of interest and any other charges. The portion of a payment that is applied to pay off the Principal of a loan. For example, an Amount to Principal of \$180.00 USD, which is part of a credit amount of \$200.00 USD, specifies that \$180.00 USD be	N



	moved to a Principal account that accumulates amounts which pay off the Principal portion of a loan.	
Escrow	Escrow balance for a Mortgage Account of a loan account. Balance in escrow account maintained by the mortgage servicer, typically for the payment of property tax and/or insurance on the mortgaged property.	N
AvailCredit	Available Credit of a loan or credit card account. Indicates the difference between the credit limit assigned to a cardholder account and the outstanding balance.	N
CreditLimit	Credit Limit. The credit line set by the financial institution for the customer's loan or credit card account.	N
PayoffAmt	Payoff Amount. The amount needed to be paid including principal amount, interest and any other charges in order to settle the loan or credit card account.	N
CreditHeld	Total Credit Hold Amount. The balance of currently outstanding hold amount from all credit/deposit (only) transactions for this account.	N
DebitHeld	Total Debit Hold Amount. The balance of currently outstanding hold amount from all debit/withdrawal (only) transactions for this account.	N
TotalHeld	Total Hold Amount. The balance of currently outstanding hold amount from all credit and debit transactions for this account. E.g., if total credit held amount is \$300 and total debit held amount is \$200, then the total held amount will be \$500.	N
RwdReg		N
RwdBonus		N

---

## Bankruptcy Data <BankruptcyData>

Bankruptcy Data Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">EffDt</a>	DateTime	Optional	Effective Date Time
<a href="#">BankruptcyType</a>	Open Enum	Optional	Bankruptcy Type Valid values include: Chapter11, Chapter12, Chapter13, Chapter7
<a href="#">BankruptcyStat</a>	Open Enum	Optional	Bankruptcy Status Valid values include: Discharge, Dismissed, Petition
end Aggregate			

---

### **Bankruptcy Indicator <BankruptcyInd>**

An indicator that shows that a party is in bankruptcy or not in bankruptcy.

Datatype: **Boolean**

---

### **Bankruptcy Status <BankruptcyStat>**

Identifies the disposition of the bankruptcy process.

Datatype: **Open Enum**

## **Enumerated Values**

Value	Description	Is default
Petition	The party has submitted a petition for bankruptcy	N
Discharge	Discharge granted by the court	N
Dismissed	Petition for bankruptcy was dismissed by the court	N

---

### **Bankruptcy Type <BankruptcyType>**

Identifies the category of the bankruptcy.

Datatype: **Open Enum**

## **Enumerated Values**

Value	Description	Is default
Chapter7	Chapter 7 bankruptcy	N
Chapter11	Chapter 11 bankruptcy	N
Chapter12	Chapter 12 bankruptcy	N
Chapter13	Chapter 13 bankruptcy	N

---

**Base Currency Amount <BaseCurAmt>**

Base Currency Amount

Datatype: **Decimal**

---

**Base Currency Code <BaseCurCode>**

Base Currency Code

Extends: [CurCode](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from CurCode			
<a href="#">CurCodeType</a>	Open Enum	Optional	Currency Code Type <hr/> Valid values include: ISO4217-Alpha, ISO4217-Numeric
<a href="#">CurCodeValue</a>	Open Enum	Required	Currency Code Value <hr/>
end Elements from CurCode			
begin Aggregate			
end Aggregate			

---

**Based on Code <BasedOnCode>**

Source of interest rate which can be used alone or with additional factors that, when combined, calculate an interest rate.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
LIBOR	London Interbank Offered Rate	N
Prime	Prime Rate	N
InternalIndex	Internal Index	N

---

### Based On Value <BasedOnValue>

The value of the BasedOnCode at the time of the request. For example; BasedOnCode is Prime, this is the value of the Prime rate at the time the request is made.

Datatype: **Decimal**

---

### Base Environment <BaseEnvr>

The BaseEnvr aggregate contains data about the environment in which the object was created. This data will usually be established when the object is created and not modified during normal processing. The server typically manages this data.

Extended By: [AcctAcctRelEnvr](#), [AcctEnvr](#), [AcctHoldEnvr](#), [AcctPayOffEnvr](#), [AcctStmtEnvr](#), [AcctTrnEnvr](#), [AcctTrnImgEnvr](#), [AlertEnvr](#), [AthEnvr](#), [BillEnvr](#), [BillerEnvr](#), [CardAcctRelEnvr](#), [CardEnvr](#), [CardOrderEnvr](#), [CardUpdateEnvr](#), [ChkAcceptEnvr](#), [ChkIssueEnvr](#), [ChkOrdEnvr](#), [ChksumEnvr](#), [CompRemitStmtEnvr](#), [CreditEnvr](#), [CustPayeeEnvr](#), [DebitEnvr](#), [DepBkOrdEnvr](#), [DevEnvr](#), [DiscEnvr](#), [DisputeEnvr](#), [ForExDealEnvr](#), [ForExQuoteEnvr](#), [ForExRateSheetEnvr](#), [InventoryEnvr](#), [MediaAcctEnvr](#), [MediaAcctTrnEnvr](#), [NoteEnvr](#), [OfferEnvr](#), [PartyAcctRelEnvr](#), [PartyCardRelEnvr](#), [PartyEnvr](#), [PartyPartyRelEnvr](#), [PartySvcAcctRelEnvr](#), [PartySvcRelEnvr](#), [PassbkEnvr](#), [PassbkItemEnvr](#), [PmtBatchEnvr](#), [PmtBatchStatEnvr](#), [PmtEnclEnvr](#), [PmtEnvr](#), [ProdIntRateEnvr](#), [PurchItemEnvr](#), [RecurChkOrdEnvr](#), [RecurPmtEnvr](#), [RecurXferEnvr](#), [RemitEnvr](#), [SecObjEnvr](#), [StdPayeeEnvr](#), [StopChkEnvr](#), [SvcEnvr](#), [SvcProviderEnvr](#), [TerminalObjEnvr](#), [TerminalSPObjEnvr](#), [XferEnvr](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">CreatedDt</a>	DateTime	Required	Created Date/Time. The date/time the object was created.

<a href="#">CreateRefIdent</a>	NC-36	Optional	An identifier used to uniquely identify the creation of this object to the system that created the object. This will usually be a link to reference information used in creating the object.
<a href="#">ClientCreateDt</a>	DateTime	Optional	The created date/time as reported by the client. This can vary from the object creation date/time due to time zone differences, communication delays, etc
<a href="#">ClientBusinessDt</a>	DateTime	Optional	The date/time that the client recorded this object for operational purposes. This date/time will often be used to manage the availability of information or funds.
<a href="#">LastUpdateDt</a>	DateTime	Optional	Last update Date/Time. The date/time the object was created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LastUpdateRqUID</a>	UUID	Optional	Last update RqUID. The RqUID from the message that resulted in the object being created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LoginName</a>	C-40	Optional	The login name (or Id) of the individual that authorized this object to be created. This is typically used when the object is created on behalf of its owner by someone who is not normally represented as a Party (i.e., an employee or agent).
<a href="#">PartyKeys</a>	Aggregate	Optional	Reference to the Party that this object is owned by or authorized by.
<a href="#">CardKeys</a>	Aggregate	Optional	This is dependent on Card proposal. Currently this is implemented as the CardLogicalData aggregate.
<a href="#">PassbkKeys</a>	Aggregate	Optional	Currently PassbkAcceptData.
<a href="#">NetworkTrnData</a>	Aggregate	Optional	Network Transaction Information. Identification and location of the terminal from which the message originates.
<a href="#">ServerTerminalSeqNum</a>	NC-36	Optional	Server Terminal Sequence Number. A terminal sequence number generated by the server to identify this object. This number is used in ATM and POS environments to uniquely identify transactions (with terminal name and date) for transaction management.
<a href="#">PointOfServiceData</a>	Aggregate	Optional	The Point of Service Data. This aggregate contains information about the environment in which this

			message originated.
<a href="#">ClientTerminalSeqNum</a>	NC-36	Optional	Client Terminal Sequence Number. A terminal sequence number generated by the client to identify this object. This number is used in ATM, POS, Branch, Call Center and Teller environments to uniquely identify transactions at the client (with terminal name and date). This number is often required when requesting supporting documentation related to a customer transaction.
end Aggregate			

---

### Base Keys Aggregate <BaseKeys>

An empty aggregate from which all xxxKeys are derived. By including this aggregate in an element, the creator is allowing any xxxKeys to be used in its stead.

Extended By: [AcctKeys](#), [AcctStmntKeys](#), [AcctTrnImgKeys](#), [AcctTrnKeys](#), [AlertKeys](#), [BillerKeys](#), [BillKeys](#), [CardAcctRelKeys](#), [CardKeys](#), [CardOrderKeys](#), [ChkAcceptKeys](#), [ChkIssueKeys](#), [ChkOrdKeys](#), [ChksumKeys](#), [CompRemitStmntKeys](#), [CreditKeys](#), [CustPayeeKeys](#), [DebitKeys](#), [DepBkOrdKeys](#), [DevKeys](#), [DiscKeys](#), [DisputeKeys](#), [ForExDealKeys](#), [ForExQuoteKeys](#), [ForExRateSheetKeys](#), [MediaAcctKeys](#), [MediaAcctTrnKeys](#), [NoteKeys](#), [PartyAcctRelKeys](#), [PartyCardRelKeys](#), [PartyKeys](#), [PartyPartyRelKeys](#), [PartySvcAcctRelKeys](#), [PartySvcRelKeys](#), [PassbkItemKeys](#), [PassbkKeys](#), [PmtBatchKeys](#), [PmtBatchStatKeys](#), [PmtEnclKeys](#), [PmtKeys](#), [PurchItemKeys](#), [RecurChkOrdKeys](#), [RecurPmtKeys](#), [RecurXferKeys](#), [RemitKeys](#), [SecObjKeys](#), [StdPayeeKeys](#), [StopChkKeys](#), [SvcKeys](#), [SvcProviderKeys](#), [TerminalObjKeys](#), [TerminalSPObjKeys](#), [XferKeys](#)

Datatype: **Abstract Aggregate**

Tag	Type	Usage	Description/Context notes
			begin Aggregate
			end Aggregate

---

### Batch Number <BatchNum>

Batch input file identification number.

Datatype: **C-40**

---

### **Basic Bank Account Identifier <BBAN>**

This identifier, used by FIs, uniquely identifies a customer account in an individual country.

Datatype: **NC-30**

---

### **Bid Offer <BidOffer>**

Used to determine from which side of the market the rate is quoted. Only relevant for quotes of FX Options.

This value reflects the FI's perspective of the rate on the market. It is recommended that a value be supplied for an FX Option, if not, assume it corresponds to the <BuySellIndicator>.

Datatype: **Closed Enum**

## **Enumerated Values**

Value	Description	Is default
Bid	Buy rate	N
Offer	Sell rate	N

---

### **Bill Environment Aggregate <BillEnvr>**

Bill Environment Aggregate

Extends: [BaseEnvr](#)

Datatype: **Aggregate**

---

Tag	Type	Usage	Description/Context notes
begin Elements from BaseEnvr			
<a href="#">CreatedDt</a>	DateTime	Required	Created Date/Time. The date/time the object was created.
<a href="#">CreateRefIdent</a>	NC-36	Optional	An identifier used to uniquely identify the creation of this object to the system that created the object. This will usually be a link to reference information used in creating the object.
<a href="#">ClientCreateDt</a>	DateTime	Optional	The created date/time as reported by the client. This can vary from the object creation date/time due to time zone differences, communication delays, etc
<a href="#">ClientBusinessDt</a>	DateTime	Optional	The date/time that the client recorded this object for operational purposes. This date/time will often be used to manage the availability of information or funds.
<a href="#">LastUpdateDt</a>	DateTime	Optional	Last update Date/Time. The date/time the object was created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LastUpdateRqUID</a>	UUID	Optional	Last update RqUID. The RqUID from the message that resulted in the object being created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LoginName</a>	C-40	Optional	The login name (or Id) of the individual that authorized this object to be created. This is typically used when the object is created on behalf of its owner by someone who is not normally represented as a Party (i.e., an employee or agent).
<a href="#">PartyKeys</a>	Aggregate	Optional	Reference to the Party that this object is owned by or authorized by.
<a href="#">CardKeys</a>	Aggregate	Optional	This is dependent on Card proposal. Currently this is implemented as the CardLogicalData aggregate.
<a href="#">PassbkKeys</a>	Aggregate	Optional	Currently PassbkAcceptData.
<a href="#">NetworkTrnData</a>	Aggregate	Optional	Network Transaction Information. Identification and location of the terminal from which the message originates.
<a href="#">ServerTerminalSeqNum</a>	NC-36	Optional	Server Terminal Sequence Number. A terminal sequence number generated by the server to identify this object. This number is used in ATM and POS environments to uniquely identify



			transactions (with terminal name and date) for transaction management.
<a href="#">PointOfServiceData</a>	Aggregate	Optional	The Point of Service Data. This aggregate contains information about the environment in which this message originated.
<a href="#">ClientTerminalSeqNum</a>	NC-36	Optional	Client Terminal Sequence Number. A terminal sequence number generated by the client to identify this object. This number is used in ATM, POS, Branch, Call Center and Teller environments to uniquely identify transactions at the client (with terminal name and date). This number is often required when requesting supporting documentation related to a customer transaction.
end Elements from BaseEnvr			
begin Aggregate			
end Aggregate			

---

### Biller Account Identification Specification <BillerAcctIdSpec>

The <BillerAcctIdSpec> aggregate specifies the format of valid account numbers acceptable to the biller.

See [Account Number Validation](#) for more information.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">AcctFormat</a>	NC-1024	Optional	Account Format.  Regular expression describing the account number format. The definition and behavior of "Regular Expression" is per IEEE Std 1003.2-1992 (POSIX.2). General definition may be found at <a href="http://www.ciser.cornell.edu/info/regex.html">http://www.ciser.cornell.edu/info/regex.html</a>
<a href="#">AcctMask</a>	NC-32	Optional Repeating	Account Mask.  String describing the edit mask to identify a valid billing account number <BillingAcct> for that biller. The client uses the account edit mask to assist the user in entering the account number.

<a href="#">AcctHelpMsg</a>	C-unbound	Optional	Account Help Message.  Human-readable message that the client may display to assist the customer in entering his or her account number.
<a href="#">AcctRestrictMsg</a>	C-1024	Optional	Account Restriction Message.  Human-readable description of any restrictions on who may sign up with this biller. Enforcement of any restrictions is by the biller or the biller's agent during the <SvcAcctAddRq>. Other service providers are only responsible for communicating this information.
<a href="#">AcctValidateURL</a>	URL	Optional	URL for Account Validation.  URL for validation. The client application may use this to validate the customer's account number.
end Aggregate			

---

### Biller Enrollment URL <BillerEnrollURL>

URL to human-readable description of additional information the biller would like the customer to have with regard to signing up.

Datatype: **URL**

---

### Biller Environment Aggregate <BillerEnvr>

Biller Environment Aggregate

Extends: [BaseEnvr](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseEnvr			
<a href="#">CreatedDt</a>	DateTime	Required	Created Date/Time. The date/time the object was created.
<a href="#">CreateRefIdent</a>	NC-36	Optional	An identifier used to uniquely identify the creation of this object to the

			system that created the object. This will usually be a link to reference information used in creating the object.
<a href="#">ClientCreateDt</a>	DateTime	Optional	The created date/time as reported by the client. This can vary from the object creation date/time due to time zone differences, communication delays, etc
<a href="#">ClientBusinessDt</a>	DateTime	Optional	The date/time that the client recorded this object for operational purposes. This date/time will often be used to manage the availability of information or funds.
<a href="#">LastUpdateDt</a>	DateTime	Optional	Last update Date/Time. The date/time the object was created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LastUpdateRqUID</a>	UUID	Optional	Last update RqUID. The RqUID from the message that resulted in th object being created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LoginName</a>	C-40	Optional	The login name (or Id) of the individual that authorized this object to be created. This is typically used when the object is created on behalf of its owner by someone who is not normally represented as a Party (i.e., an employee or agent).
<a href="#">PartyKeys</a>	Aggregate	Optional	Reference to the Party that this object is owned by or authorized by.
<a href="#">CardKeys</a>	Aggregate	Optional	This is dependent on Card proposal. Currently this is implemented as the CardLogicalData aggregate.
<a href="#">PassbkKeys</a>	Aggregate	Optional	Currently PassbkAcceptData.
<a href="#">NetworkTrnData</a>	Aggregate	Optional	Network Transaction Information. Identification and location of the terminal from which the message originates.
<a href="#">ServerTerminalSeqNum</a>	NC-36	Optional	Server Terminal Sequence Number. A terminal sequence number generated by the server to identify this object. This number is used in ATM and POS environments to uniquely identify transactions (with terminal name and date) for transaction management.
<a href="#">PointOfServiceData</a>	Aggregate	Optional	The Point of Service Data. This aggregate contains information about the environment in which this message originated.

<a href="#">ClientTerminalSeqNum</a>	NC-36	Optional	Client Terminal Sequence Number. A terminal sequence number generated by the client to identify this object. This number is used in ATM, POS, Branch, Call Center and Teller environments to uniquely identify transactions at the client (with terminal name and date). This number is often required when requesting supporting documentation related to a customer transaction.
end Elements from BaseEnvr			
begin Aggregate			
end Aggregate			

---

### Bill Identifier <BillId>

Bill Identifier

Datatype: **Identifier**

---

### Bill Information Aggregate <BillInfo>

Bill Information Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">Name</a>	C-40	Required	Bill Name. Assigned by the service provider. Cannot be changed by the client.
<a href="#">CreditorData</a>	Aggregate	Optional	Creditor Data
begin-block		Optional Repeating	
<a href="#">SecretPrompt</a>	Aggregate	Required	Secret Prompt Aggregate.  If omitted, the biller does not require the customer to enter any secrets for client enrollment.

<a href="#">CryptType</a>	Open Enum	Required	<p>Encryption type to indicate encryption used for transmitting authentication information. The Biller may specify one or more encryption types that it accepts.</p> <p>Defined values: None, PKCS#1, PKCS#7, PKCS#10, ECB, CBC, CFB, OFB, TECB, TCBC, TCBC-I, TCFB, TCFB-P, TOFB, TOFB-I, AECB, ACBC, ACFB, AOFB, ACM</p>
end-block			
<a href="#">HistRetentionDays</a>	Long	Optional	Number of days that Bill Summary and Bill Detail information is available for inquiries. The Bill Detail information may be available for a longer period of time.
<a href="#">CSPCustInfoReq</a>	Boolean	Optional	CSP Customer name and address information Required. If <i>True</i> , the Biller requires that the Customer name and address be sent with an account activation. IF <i>False</i> or omitted, the customer name and address are not required in the account activation.
<a href="#">BillerPayData</a>	Aggregate	Optional	Biller Pay Information Aggregate.
<a href="#">LogoURL</a>	URL	Optional	Logo URL.  URL of the biller's logo.
<a href="#">Logo</a>	Aggregate	Optional	Biller Logo. If the client requested images, the logo should be included here in this response.
<a href="#">BillerEnrollURL</a>	URL	Optional	<p>Biller Information URL.</p> <p>URL of human-readable description of additional information the biller would like the customer to have with regard to signing up.</p> <p>The resource may also include an interactive session to verify a customer's identity and eligibility to receive bills for an account. If successful, the session results in a security token or password that the customer may use in response to a <a href="#">SecretPrompt</a> when activating the account for bill presentment.</p>
<a href="#">BillerAcctIdSpec</a>	Aggregate	Optional	Biller Account Identification Specification
<a href="#">DiscReqd</a>	Boolean	Optional	Disclosure Required. If <i>True</i> , the biller requires that their disclosure be presented to the customer prior to account activation. If <i>False</i> , the presentment of the disclosure is not required prior to the account activation request. This may be <i>False</i> if no disclosure is required or when the biller wishes to return the disclosure in the account activation response.
<a href="#">DiscRef</a>	Aggregate	Optional	Disclosure Identifier. The identifier of the disclosure associated with this biller. The

			<DiscInfo> associated with this identifier can be obtained by performing a Disclosure Inquiry.
<a href="#">DiscDt</a>	Date	Optional	Date Last Disclosure Change.
end Aggregate			

---

### Biller Request Message <BillerInqRq>

The Biller Inquiry transaction enables a client to retrieve a list of all Billers known to the Bill Pay (BPP) or Bill Presentment (BSP) provider that meets certain selection criteria. This message will usually be used to enable a client to get a small list of Billers to select from for adding a Biller payee to a customer's Payee list.

See the matching response message [BillerInqRs](#)

#### Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">DocCtrlIn</a>	Aggregate	Optional	Document Control Input
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
begin-xor		Optional Repeating	
<a href="#">BillerSel</a>	Aggregate	Required	Biller Selection Aggregate
<a href="#">RecSelect</a>	IfxPath	Required	Record Select
end-xor			
end Aggregate			

---

### Biller Response Message <BillerInqRs>

Response to the Biller Inquiry request

See the matching request message [BillerInqRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">DocCtrlOut</a>	Aggregate	Optional	Document Control Output
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">BillerRec</a>	Aggregate	Required Repeating	Biller Record Aggregate
end-block			
end Aggregate			

---

**Biller Keys Aggregate <BillerKeys>**

Biller Keys Aggregate

Extends: [BaseKeys](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseKeys			
end Elements from BaseKeys			
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
begin-xor		Required	
<a href="#">BillerId</a>	Identifier	Required	Biller Identifier
end-xor			
end Aggregate			

---

## Billers Pay Data <BillerPayData>

The <BillerPayData> identifies payment information associated with a Biller (e.g., acceptable payment instruments, number of days to post a payment, etc.)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">PmtOptions</a>	Aggregate	Optional Repeating	Payment Options
<a href="#">DaysToEPost</a>	Long	Optional	Days to post an electronic payment. The maximum days between receipt of an electronic payment by the biller or BPP and posting to the customer's account.
<a href="#">ValidateAcctInd</a>	Boolean	Optional	Pre-Note Required. If set to <i>True</i> , the Biller requires pre-noting by the Service Provider.  <i>Note: Pre-noting is the transmission of a zero dollar message to verify consumer information, usually the payee account information.</i>
<a href="#">ValidateAcctMthd</a>	Open Enum	Optional	Validate Account Method  Valid values include: FormatOnly, Other, PreNote  Default Value: Other
end Aggregate			

---

## Billers Record Aggregate <BillerRec>

Billers Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">BillerId</a>	Identifier	Required	Biller Identifier
<a href="#">BillerInfo</a>	Aggregate	Required	Biller Information Aggregate
<a href="#">BillerEnvr</a>	Aggregate	Optional	Biller Environment Aggregate
end Aggregate			



<a href="#">BillerStatus</a>	Aggregate	Required	Biller Status Aggregate
end Aggregate			

---

### Biller Reference Aggregate <BillerRef>

Biller Reference Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">BillerKeys</a>	Aggregate	Required	Biller Keys Aggregate
<a href="#">BillerRec</a>	Aggregate	Required	Biller Record Aggregate
<a href="#">BillerInfo</a>	Aggregate	Required	Biller Information Aggregate
end-xor			
end Aggregate			

---

### Biller Request Message <BillerRevRq>

See the matching response message [BillerRevRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RevReasonCode</a>	Aggregate	Required	Reversal Reason Code
<a href="#">Desc</a>	C-80	Optional	Description
<a href="#">BillerRqMsg</a>	Aggregate	Required	Biller Request Message Record Aggregate

end Aggregate
---------------

---

### Billor Response Message <BillorRevRs>

See the matching request message [BillorRevRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
end Aggregate			

---

### Billor Request Message Record Aggregate <BillorRqMsg>

Billor Request Message Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">BillorInqRq</a>	Aggregate	Required	Billor Inquiry Request
<a href="#">RevRqUID</a>	UUID	Required	Reversal Request Unique ID
end-xor			
end Aggregate			

---

### Billor Selection Aggregate <BillorSel>

## Biller Selection Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required Repeating	
<a href="#">BillerKeys</a>	Aggregate	Required	Biller Keys Aggregate
end-xor			
end Aggregate			

---

## Biller Status Aggregate <BillerStatus>

Biller Status Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">BillerStatusCode</a>	Open Enum	Required	Biller Status Code <hr/> Valid values include: Available, AvailPend, Deleted, DelPend, Valid
<a href="#">StatusDesc</a>	C-255	Optional	Status Description
<a href="#">EffDt</a>	DateTime	Optional	Effective Date Time
<a href="#">StatusModBy</a>	Open Enum	Optional	Status Modified By <hr/> Valid values include: BPP, BPPSR, BSP, BPSR, CPP, CPPSR, CSP, CSPSR, Customer, FI, PSP
<a href="#">Memo</a>	C-255	Optional	Memo
end Aggregate			

---

## Biller Status Code <BillerStatusCode>

Indicates whether the Biller is active and available through this service provider.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Available	Biller is currently active with this service provider	N
AvailPend	Biller will be active with this service provider effective as of a certain date	N
Deleted	Biller is no longer available through this service provider	N
DelPend	Biller will no longer be available via this service provider as of a certain date	N
Valid		N

---

### Bill Status Record Aggregate <BillerStatusRec>

Bill Status Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">BillerId</a>	Identifier	Required	Biller Identifier
<a href="#">BillerStatus</a>	Aggregate	Required	Biller Status Aggregate
end Aggregate			

---

### Bill Identifier <BillId>

Bill Identifier

Datatype: **Identifier**

## Bill Information Aggregate <BillInfo>

Bill Information Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">BillType</a>	Open Enum	Required	Bill Type.  Defined values: Bill, Statement, Notice, Invoice.
<a href="#">PartyRef</a>	Aggregate	Optional	Party Reference Aggregate
<a href="#">Memo</a>	C-255	Optional	Biller-information displayed to user by the biller. This may be used for notice information when <BillType> = Notice.
<a href="#">BillSummAmt</a>	Aggregate	Optional Repeating	Bill Summary Amount Aggregate. Used for any currency amounts that are being presented in the Bill Summary.  <i>Note: If &lt;BillType&gt; = Bill, at least one occurrence of this aggregate must be present where the amount is a payable amount (&lt;BillAmtType&gt; = Payable).</i>
<a href="#">DueDt</a>	Date	Optional	Payment due date. If absent and <BillType> is Bill, the meaning is that the bill is due upon receipt.
<a href="#">BillInvoiceDt</a>	Date	Required	Bill date.
<a href="#">OpenDt</a>	Date	Optional	Opening statement date.
<a href="#">CloseDt</a>	Date	Optional	Closing statement date.
<a href="#">PmtOptions</a>	Aggregate	Optional Repeating	Payment Options
<a href="#">NotifyReqd</a>	Boolean	Optional	If <i>True</i> , the server requires that the client send a <BillStatusModRq> for each change of status of either the bill or its payment. The server may not send True if the client did not set <NotifyWilling> to True in <BillInqRq>.
<a href="#">ViewDtlPref</a>	Open Enum	Optional	Indicates biller preference that customer view the detail of the bill.  Defined values: None, Preferred  Bill detail is available through the <URL> specified within the <StmtImage> aggregate.
<a href="#">BillStmntData</a>	Aggregate	Optional	Statement image aggregate.
<a href="#">BillRefText</a>	NC-80	Optional	Bill Reference Text

end Aggregate

---

### Billing Adjustment Indicator <BillingAdjustmentInd>

Indicates whether any additional charges were incurred after departure.

Datatype: **Boolean**

---

### Billing Method <BillingMethod>

Standard and Non-Standard billing methods for product(s) ordered.

Valid Values: Customer, Institution, CheckPrinter

Datatype: **Closed Enum**

## Enumerated Values

Value	Description	Is default
Customer		N
Institution	The bill will pass through the financial institution	N
CheckPrinter	for check printing billing	N

---

### Bill Payment Status <BillingPmtStat>

Bill Payment Status

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">PmtKeys</a>	Aggregate	Optional	Payment Identifier. The ID of the payment associated with the bill.

<a href="#">BillPmtStatusCode</a>	Open Enum	Required	Bill Payment Status Code.  Valid values are: None, AutoPay, Scheduled, Processed, PaidOutOfBand, Cancelled, Unpayable, and Posted.
<a href="#">EffDt</a>	DateTime	Optional	Effective Date Time. The date and time the Bill Payment Status became effective.
<a href="#">StatusModBy</a>	Open Enum	Optional	Status Modified By. If present, indicates who modified the Bill Payment Status Code.  Defined values: Customer, CSP, CSPSR, BSP, BSPSR, CPP, CPPSR, BPP, BPPSR.
<a href="#">Memo</a>	C-255	Optional	Memo Information. To provide additional information, for example, if the payment was rejected, it may contain the reason for the rejection.
end Aggregate			

## Bill Request Message <BillInqRq>

<BillInqRq> retrieves bills or counts of bills from the BSP. The BSP returns a <BillInqRs> that contains a list of zero or more bills, or counts of bills that match specific selection criteria.

The client requests bills from a BSP by using one or more selection criteria, including bill creation date range. To specify the date range, clients use <StartDt> and <EndDt>, which the server compares to <BillDt> within the <BillRec> aggregate.

The BSP returns information sufficient to identify the biller and provide the amount due, due date, and remittance information so that a payment may be made to the biller. The BSP does not provide a viewable form of the bill but may return a URL to an HTML rendering of the bill.

See the matching response message [BillInqRs](#)

### Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
	Aggregate		

<a href="#">DocCtrlIn</a>		Optional	Document Control Input
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
begin-xor		Optional Repeating	
<a href="#">BillSel</a>	Aggregate	Required	Bill Selection Aggregate
<a href="#">RecSelect</a>	IfxPath	Required	Record Select
end-xor			
end Aggregate			

---

### Bill Response Message <BillInqRs>

The <BillInqRs> may contain zero or more bill summaries <BillRec>. Each bill summary corresponds to a (usually monthly) bill. The response may contain either counts of bills or the collection of the bill summaries.

See the matching request message [BillInqRq](#)

### Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">DocCtrlOut</a>	Aggregate	Optional	Document Control Output
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">BillRec</a>	Aggregate	Required Repeating	Bill Record Aggregate
end-block			
end Aggregate			

---

### Bill/Invoice Date <BillInvoiceDt>



The date of a bill/invoice. It is assigned by the party generating the bill/invoice.

Datatype: **Date**

---

### Bill Keys Aggregate <BillKeys>

Bill Keys Aggregate

Extends: [BaseKeys](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseKeys			
end Elements from BaseKeys			
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
begin-xor		Required	
<a href="#">BillId</a>	Identifier	Required	Bill Identifier
end-xor			
end Aggregate			

---

### Bill Payment Status Code <BillPmtStatusCode>

Bill payment status code.

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
None	There is neither a payment scheduled, nor has one been made, against this bill.	N
Scheduled	A payment has been scheduled, but not yet processed, against this bill.	N
Processed	The payment has been processed against this bill, and can	N

	no longer be cancelled.	
Posted	The biller has posted the payment against this bill.	N
PaidOutOfBand	A payment has been initiated for this bill via a mechanism that does not report status via IFX. This status is intended to indicate the customer has paid the biller directly with cash or check or has initiated an electronic payment through a mechanism tha	N
AutoPay	The Biller/BSP will initiate the payment based on a pre-authorization by the customer, typically a "good until cancelled" instruction with no defined end date. In the US this is often implemented via a recurring pre-authorized ACH debit, though some billers offer pre-authorized automatic payment through a credit card. Examples include monthly deductions to cover a mortgage, regular payments from a checking account to a credit card, and the Automatic Payment Service (APS) offered by many utilities. Like "NONE", this may be the initial payment status of a bill.	N
Cancelled	The customer cancelled the payment that was previously scheduled.	N
Unpayable	None of the Payment Instruments allowed for this bill are supported by the CPP. This is intended to be used where the bill restricts payment to a subset of the Payment Instruments allowed in the Biller Directory entry. This could occur if the CPP or the biller changed their supported payment instrument types after enrollment and account activation.	N
Valid		N
Deleted		N

---

## Bill Record Aggregate <BillRec>

Bill Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">BillId</a>	Identifier	Required	Bill Identifier
<a href="#">BillInfo</a>	Aggregate	Required	Bill Information Aggregate
<a href="#">BillEnvr</a>	Aggregate	Optional	Bill Environment Aggregate
<a href="#">BillStatus</a>	Aggregate	Required	Bill Status Aggregate
end Aggregate			

---

### Bill Reference Aggregate <BillRef>

Bill Reference Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">BillKeys</a>	Aggregate	Required	Bill Keys Aggregate
<a href="#">BillRec</a>	Aggregate	Required	Bill Record Aggregate
<a href="#">BillInfo</a>	Aggregate	Required	Bill Information Aggregate
end-xor			
end Aggregate			

---

### Bill Reference Text <BillRefText>

Billers defined text to include with the payment, for the biller's Accounts Receivable reconciliation. It is sent with electronic bill payment requests.  
*Note: Depending on the Payment Provider and the payment network and transaction used to make the payment, may be truncated to 22 bytes.*

Datatype: **NC-80**

---

### Bill Return Address <BillRetAddr>

Assigned by the Service Provider, as provided by the biller. Cannot be changed by the client.

Extends: [PostAddr](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from PostAddr			
	NC-36		

<a href="#">AddressIdent</a>		Optional	Address Identifier
begin-block		Optional	
<a href="#">Addr1</a>	C-64	Optional	Address Line 1.
begin-block		Optional	
<a href="#">Addr2</a>	C-64	Optional	Address Line 2. Required if <Addr3> is present.
begin-block		Optional	
<a href="#">Addr3</a>	C-64	Optional	Address Line 3. Required if <Addr4> is present.
begin-block		Optional	
<a href="#">Addr4</a>	C-64	Optional	Address Line 4.
end-block			
end-block			
end-block			
end-block			
<a href="#">City</a>	C-32	Optional	City.
<a href="#">CountyDistrict</a>	C-32	Optional	County District
<a href="#">StateProv</a>	C-32	Optional	State or Province.
<a href="#">PostalCode</a>	C-11	Optional	Postal Code.
<a href="#">CountryCode</a>	Aggregate	Optional	Country Code
<a href="#">AddrType</a>	Open Enum	Optional	Address Type.  Defined values: Seasonal, Primary, Secondary, Business, Home
<a href="#">TimeFrame</a>	Aggregate	Optional	Time Frame
<a href="#">UpDt</a>	Timestamp	Optional	Update Date Time
<a href="#">CensusTract</a>	C-20	Optional	Census Tract
<a href="#">CensusBlock</a>	C-20	Optional	Census Block
end Elements from PostAddr			
begin Aggregate			
end Aggregate			

---

**Bill Request Message <BillRevRq>**

See the matching response message [BillRevRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RevReasonCode</a>	Aggregate	Required	Reversal Reason Code
<a href="#">Desc</a>	C-80	Optional	Description
<a href="#">BillRqMsg</a>	Aggregate	Required	Bill Request Message Record Aggregate
end Aggregate			

---

### Bill Response Message <BillRevRs>

See the matching request message [BillRevRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
end Aggregate			

---

### Bill Request Message Record Aggregate <BillRqMsg>

Bill Request Message Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes

begin Aggregate			
begin-xor		Required	
<a href="#">BillInqRq</a>	Aggregate	Required	Bill Inquiry Request
<a href="#">BillStatusModRq</a>	Aggregate	Required	Bill Status Modification Request
<a href="#">RevRqUID</a>	UUID	Required	Reversal Request Unique ID
end-xor			
end Aggregate			

---

### Bill Selection Aggregate <BillSel>

Bill Selection Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required Repeating	
<a href="#">BillKeys</a>	Aggregate	Required	Bill Keys Aggregate
end-xor			
end Aggregate			

---

### Bill Status Aggregate <BillStatus>

Bill Status Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">BillStatusCode</a>	Open Enum	Required	Bill Status Code  Valid values include: Deleted, Delivered, New, Retired, Undeliverable, Valid, Viewed, Withdrawn
<a href="#">StatusDesc</a>	C-255	Optional	Status Description

<a href="#">EffDt</a>	DateTime	Optional	Effective Date Time
<a href="#">StatusModBy</a>	Open Enum	Optional	Status Modified By  Valid values include: BPP, BPPSR, BSP, BPSR, CPP, CPPSR, CSP, CSPSR, Customer, FI, PSP
<a href="#">Memo</a>	C-255	Optional	Memo
end Aggregate			

---

### Bill Status Code <BillStatusCode>

Bill Status Code.

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
New	The server hasn't sent the bill to either a client or client proxy.	N
Delivered	The server has sent the bill to either a client or client proxy.	N
Viewed	The customer has seen the bill. Implies previous status of Delivered.	N
Retired	The customer no longer wishes to see this bill. Implies previous status of Delivered.	N
Withdrawn	The biller or publisher no longer wishes this bill to be displayed.	N
Undeliverable	Attempts to deliver this bill to the consumer in a timely fashion have failed. This status does not make sense when presenting a bill to a consumer. But, notifications using this status cover many useful cases.	N
Valid		N
Deleted		N

---

### Bill Request Message <BillStatusModRq>

Bill Status Modification Request

See the matching response message [BillStatusModRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">BillKeys</a>	Aggregate	Required	Bill Keys Aggregate
<a href="#">BillStatus</a>	Aggregate	Required	Bill Status Aggregate
end Aggregate			

---

### Bill Response Message <BillStatusModRs>

Response to a Bill Status Modification response

See the matching request message [BillStatusModRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">BillStatusRec</a>	Aggregate	Required	Bill Status Record Aggregate
end-block			
end Aggregate			

---

### Bill Status Record Aggregate <BillStatusRec>

Bill Status Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes



begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">BillId</a>	Identifier	Required	Bill Identifier
<a href="#">BillStatus</a>	Aggregate	Required	Bill Status Aggregate
end Aggregate			

---

### Bill Statement Data <BillStmtData>

The <BillStmtData> aggregate provides one or more URLs that point to a fully rendered image of the bill, in HTML. The <URL> should include enough information for the HTTP server to authenticate the client requesting the statement image. For security reasons, the authentication information embedded within the URLs should expire after a period of time deemed prudent by the service provider. Information about the authentication information expiration date and time is included in <ExpDt>.

<ImageURL> accesses the complete bill image. This URL may contain navigation to other sites or to other pages of bill images at the same site.

To support off-line viewing of the bill, the server may provide one or more additional URLs. Each <PrefetchURL> points to a local Web page.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">ImageURL</a>	URL	Required	URL address for retrieving an image of the complete bill encoded as HTML. This may be cached by the client for later display, or it may be viewed live directly from the Web.
<a href="#">PrefetchURL</a>	URL	Optional Repeating	List of URLs required in order to display an HTML image of the complete bill, to support off-line viewing.
<a href="#">ExpDt</a>	DateTime	Optional	Date/Time after which embedded authentication token expires. If absent, the embedded token never expires.
end Aggregate			

---

## Bill Summary Amount <BillSummAmt>

Used to describe amounts that are being presented in the bill summary.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">BillSummAmtIdent</a>	NC-36	Optional	Bill Summary Amount Identifier. Biller's identifier for this currency amount. This may be returned in the payment message to identify the type of amount being paid by the consumer. This value needs to be provided by the Biller if the intent is to allow the consumer to designate the particular amount being paid (using <PaySummAmt> in <PmtInfo> aggregate).
<a href="#">BillSummAmtCode</a>	Open Enum	Optional	Bill Summary Amount Code. Indicates the type of amount being specified in <CurAmt>, using a standard list of billing amounts that are machine-readable by the client and may be used for internal processing. The short description <ShortDesc> should be used to describe the amount in a display to the consumer.  Defined values: TotalAmtDue, MinAmtDue, MaxAmtDue, LateAmtDue, DiscAmtDue, MonthlyAmt, QuarterlyAmt, SemiAnnualAmt, AnnualAmt, ExtdAmt, PrevBal, Charges, Credits, StmtBal, LateChg, FinanceChg, Tip, Principal, Interest, Escrow, PMI, Donation
<a href="#">ShortDesc</a>	C-15	Required	Short Description. A short description of the amount specified in <CurAmt> within this aggregate. To be used for display to the consumer.
<a href="#">Desc</a>	C-80	Optional	Description. A longer description of the amount specified in <CurAmt>. To be used when the short description <ShortDesc> may be insufficient to clearly describe the amount.
<a href="#">Memo</a>	C-255	Optional	Memo. Additional information about the amount specified in <CurAmt>. This may be used to further describe terms or instructions that may apply to the amount specified.
<a href="#">CurAmt</a>	Aggregate	Required	Currency Amount. The amount being specified as described by the short description. This amount may be a zero or negative value.
<a href="#">BillSummAmtType</a>	Closed Enum	Required	Bill Summary Amount Type. Indicates the type of amount specified in <CurAmt>. Note that the client must treat amounts that are Payable as mutually exclusive

			(i.e., the consumer may select only one). Amounts that are Supplemental are not mutually exclusive (i.e., the consumer may select more than one for indicating breakdown of an additional payment).  Valid values: Payable, Supplemental, InfoOnly.
<a href="#">BillSummSubAmt</a>	Aggregate	Optional Repeating	Bill Summary Sub-Amount. Allows for the specification of a breakdown of an amount specified in <CurAmt> within the higher level aggregate <BillSummAmt>.
end Aggregate			

### Bill Summary Amount Code <BillSummAmtCode>

Indicates the type of amount being specified in <CurAmt> using a standard list of billing amounts that are machine readable by the client and may be used for internal processing. The short description should be used to describe the amount in a display to the customer.

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
TotalAmtDue	The total amount due associated with this bill.	N
MinAmtDue	The minimum amount the customer must pay for this bill	N
MaxAmtDue	The maximum amount the customer should pay associated with this bill.	N
LateAmtDue	If the customer is going to pay late, this is the total amount that must be paid, including late charges.	N
DiscAmtDue	If the customer is going to pay early, this is the discounted amount due.	N
MonthlyAmt	If the customer is paying on a monthly basis, this is the monthly amount due.	N
QuarterlyAmt	If the customer is paying on a quarterly basis, this is the quarterly amount due.	N
SemiAnnualAmt	If the customer is paying semiannually, this is the amount due semi-annually.	N
AnnualAmt	If the customer is paying annually, this is the annual amount due.	N
ExtdAmt	Extended Amount. The amount due associated with an extended payment plan.	N
PrevBal	The balance associated with the previous bill.	N
Charges	Charges incurred in this bill cycle	N
Credits	Credits for this bill cycle	N

StmntBal	The balance associated with this statement.	N
LateChg	Late charges being assessed for a past-due payment.	N
FinanceChg	Finance charges being assessed for this bill.	N
Tip	A supplemental allocation to include a tip in the payment, e.g. newspaper carrier tip.	N
Principal	The principal payment amount that is associated with this bill, e.g. mortgage bill.	N
Interest	The interest payment amount that is associated with this bill, e.g. mortgage or installment loan bill.	N
Escrow	The escrow amount that is associated with this bill.	N
PMI	The private mortgage insurance amount that is due with this bill.	N
Donation	A supplemental allocation category to include a charitable donation in the payment, e.g. gas & electric bill.	N

---

### Bill Summary Amount Identifier <BillSummAmtIdent>

Sometimes a biller offers multiple payment amounts such as quarterly payments, annual payment, multi-year amounts as options on a bill. This reference value is provided by the biller and can be included in a payment to designate the payer's choice.

Datatype: **NC-36**

---

### Bill Summary Amount Type <BillSummAmtType>

Indicates the type of amount specified in <CurAmt>. Note that the client must treat amounts that are Payable as mutually exclusive (i.e., the consumer may select only one). Amounts that are Supplemental are not mutually exclusive (i.e., the consumer may select more than one for indicating breakdown of an additional payment).

Datatype: **Closed Enum**

### Enumerated Values

Value	Description	Is default
Payable	an amount that may be paid by the consumer; the consumer may use this category on a payment to indicate the intent of the amount being paid, when multiple payable amounts are presented)	N

Supplemental	additional payment; a category that may be used for assigning an additional payment beyond the payable amount presented)	N
InfoOnly	an amount that is being presented for information only and is not used in the payment.	N

### Bill Summary Sub-Amount <BillSummSubAmt>

Allows for the specification of a breakdown of the amount specified in the higher level aggregate <BillSummAmt>.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">BillSummAmtIdent</a>	NC-36	Required	Bill Summary Amount Identifier. Biller's identifier for this currency sub-amount. Used in a payment message to allocate a portion of a total payment amount to this sub-amount.
<a href="#">ShortDesc</a>	C-15	Required	Short Description. A short description of the amount specified in <CurAmt> within this aggregate. To be used for display to the consumer.
<a href="#">Desc</a>	C-80	Optional	Description. A longer description of the amount specified in <CurAmt>. To be used when the short description <ShortDesc> may be insufficient to clearly describe the amount.
<a href="#">Memo</a>	C-255	Optional	Memo. Additional information about the amount specified in <CurAmt>. This may be used to further describe terms or instructions that may apply to the amount specified.
<a href="#">CurAmt</a>	Aggregate	Required	Currency Amount. The amount being specified as described by the short description. This amount may be a zero or negative value.
<a href="#">AllocateAllowed</a>	Boolean	Optional	Allocation Allowed Indicator. If <i>True</i> , the <BillSummAmtId> for the amount specified may be used to indicate the allocation breakdown of the total payment amount within the <PayInfo> aggregate in a payment message. If <i>False</i> or omitted, the amount specified is for information only.
end Aggregate			

---

## Bill Type <BillType>

The type of information being sent in the bill summary.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Bill	A request for payment for goods or services; includes one or more amounts due.	N
Statement	An account history, typically for a given period of time, which typically does not require a payment, such as a checking account statement or a mutual fund statement.	N
Notice	Textual information sent from the biller to communicate information about the service; could include regulatory information and would not contain an amount due.	N
Invoice	A line item detailed bill, typically used in business-to-business.	N

---

## Binary Datatype <Binary>

The Binary data type is a compound type consisting of three logical elements:

Extended By: [CashSignature](#), [Certificate](#), [ChkImgBack](#), [ChkImgFront](#), [Cursor](#), [FormImg](#), [IdentImg](#), [Logo](#), [MktgImg](#), [StmtImg](#), [TrnImg](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">ContentType</a>	Open Enum	Optional	Specified in IETF RFC 2046.
<a href="#">BinLength</a>	Long	Required	Identifies the size of the binary data in number of bytes.
<a href="#">BinData</a>	Raw Binary Data	Required	Binary data.
end Aggregate			

---

### Binary Length 128 bytes <Binary128>

The Binary data type is a compound type consisting of three logical elements:

Binary128 restricts the length of raw data to 128 bytes.

Extended By: [CryptPIN](#), [CryptPswd](#), [CryptSecret](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">ContentType</a>	Open Enum	Optional	Specified in IETF RFC 2046.
<a href="#">BinLength</a>	Long	Required	Binary Data Length
<a href="#">BinData</a>	Raw Binary Data	Required	Binary Data
end Aggregate			

---

### Binary Data <BinData>

Binary data.

Datatype: **Raw Binary Data**

---

### Bin/ICA <BinICA>

Reporting BIN/ICA if the incident report was taken by another issuing center.

Datatype: **C-12**

---

### Binary Data Length <BinLength>

Identifies the size of the binary data in number of bytes

Datatype: **Long**

---

**Date of Birth <BirthDt>**

Datatype: **Date**

---

**Birth Place <BirthPlace>**

Birth Place

Datatype: **C-96**

---

**Branch Identifier <BranchIdent>**

Branch Identifier.

Qualifies account number if required by FI in profile. Used to indicate which branch the account is with. Usage is expected to be primarily in countries where regulations require an account to be assigned to a branch office, but a US-based FI may also require this field for operational reasons.

Datatype: **NC-22**

---

**Branch Name <BranchName>**

Bank branch name, required in ITA.

Datatype: **C-40**



---

**Card Brand <Brand>**

The name that identifies the type of card presented. It will typically be the name of the association or company that authorized the issuance of the card.

Datatype: **Open Enum**

**Enumerated Values**

Value	Description	Is default
AmEx	The American Express Company	N
CarteBancaire	Carte Bancaire	N
Discover	Dean Witter, Discover & Co	N
JCB	JCB International	N
MasterCard	MasterCard International	N
PrivateLabel		N
VISA	VISA USA or VISA International	N

---

**Bureau Score <BureauScore>**

Score provided by Credit Bureau.

Datatype: **Long**

---

**Buy Sell Indicator <BuySellIndicator>**

Requested Deal Type.

This value reflects the Customer's perspective (NOT THE FI's perspective) of the rate on the market.

Datatype: **Closed Enum**

## Enumerated Values

Value	Description	Is default
Buy		N
Sell		N

---

### Campaign Identifier <CampaignIdent>

Indicates sales campaign from which correspondence was generated.

Datatype: **NC-36**

---

### ISO 20022 Customer Payment Cancellation Request Version 1 <camt.055.001.01>

ISO 20022 Customer Payment Cancellation Request Version 1.

Datatype: **External Aggregate**

---

### Cancellation Window <CanWind>

Cancellation Window - Refers to number of days after a transfer is initiated using ACH during which the transfer may be cancelled.

Datatype: **Long**

---

### Capitalization Frequency <CapFrequency>

Frequency at which interest is capitalized.

Extends: [RecurRule](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from RecurRule			
<a href="#">RecurType</a>	Closed Enum	Optional	RecurType Valid values are limited to: Daily, Monthly, Weekly, Yearly
<a href="#">RecurInterval</a>	Long	Optional	Recurrence Interval
<a href="#">RecurInstance</a>	Long	Optional	Recurrence Instance
<a href="#">DayOfWeek</a>	Closed Enum	Optional	Day Of Week Valid values are limited to: Friday, Monday, Saturday, Sunday, Thursday, Tuesday, Wednesday
<a href="#">DayOfMonth</a>	Closed Enum	Optional	Day Of Month Valid values are limited to: 1, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 2, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 3, 30, 31, 4, 5, 6, 7, 8, 9
<a href="#">Month</a>	Long	Optional	Month
<a href="#">TimeOfDay</a>	Time	Optional	Time Of Day
<a href="#">RecurStartDate</a>	Date	Optional	Recurrence Start Date
begin-xor		Optional	
<a href="#">Occurrences</a>	Long	Required	Occurrences
<a href="#">RecurEndDate</a>	Date	Required	Recurrence End Date
end-xor			
<a href="#">AdjDays</a>	Long	Optional	Adjustment Days
<a href="#">AdjDaysBasis</a>	Open Enum	Optional	Adjustment Days Basis Valid values include: DueDt, EndOfMonth, StmtDt Default Value: StmtDt
end Elements from RecurRule			
begin Aggregate			
end Aggregate			

Bank at which the card was captured.

Datatype: **C-32**

---

**Capture Date Time <CaptureDtTm>**

The Date and Time on which the card was captured.

Datatype: **DateTime**

---

**Capture Location <CaptureLocation>**

Location at which the card was captured.

Datatype: **C-40**

---

**Capture Reason <CaptureReason>**

Reason the card was captured.

Datatype: **C-20**

---

**Capture Terminal <CaptureTerminal>**

Identifier of the terminal at which the card was captured.

Datatype: **C-10**

---

### Card Account Priority <CardAcctPriority>

A value that defines the priority order of the account to the card. It may be used to define a Primary account for account display and transaction processing.

Datatype: **Long**

---

### Card Account Relationship Add Message <CardAcctRelAddRq>

Card Account Relationship Add Message

See the matching response message [CardAcctRelAddRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">CardAcctRelInfo</a>	Aggregate	Required	Card Account Relationship Information Aggregate
end Aggregate			

---

### Card Account Relationship Add Response <CardAcctRelAddRs>

Card Account Relationship Add Response

See the matching request message [CardAcctRelAddRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			

begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">CardAcctRelRec</a>	Aggregate	Required	Card Accountt Relationship Record
<a href="#">CardAcctRelStatusRec</a>	Aggregate	Required	Card Accountt Relationship Status Record
end-xor			
end-block			
end Aggregate			

---

### Card Account Relationship Advise Message <CardAcctRelAdviseRq>

Card Account Relationship Advise Message

See the matching response message [CardAcctRelAdviseRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
begin-xor		Required	
<a href="#">CardAcctRelRec</a>	Aggregate	Required	Card Accountt Relationship Record
<a href="#">CardAcctRelStatusRec</a>	Aggregate	Required	Card Accountt Relationship Status Record
end-xor			
end Aggregate			

---

### Card Account Relationship Advise Response <CardAcctRelAdviseRs>

## Card Account Relationship Advise Response

See the matching request message [CardAcctRelAdviseRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">CardAcctRelRec</a>	Aggregate	Required	Card Accountt Relationship Record
<a href="#">CardAcctRelStatusRec</a>	Aggregate	Required	Card Accountt Relationship Status Record
end-xor			
end-block			
end Aggregate			

---

## Card Account Relationship Audit Request <CardAcctRelAudRq>

Card Account Relationship Audit Request

See the matching response message [CardAcctRelAudRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
<a href="#">DtRange</a>	Aggregate	Optional	Date Range
<a href="#">Method</a>	Closed Enum	Optional Repeating	Method

			Valid values are limited to: Add, Advise, AuthMod, Can, Del, Mod, StatusMod
<a href="#">CardAcctRelKeys</a>	Aggregate	Optional Repeating	Card Account Relationship Keys Aggregate
end Aggregate			

## Card Account Relationship Audit Response <CardAcctRelAudRs>

Card Account Relationship Audit Response

See the matching request message [CardAcctRelAudRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">CardAcctRelRsMsg</a>	Aggregate	Optional Repeating	Card Account Relationship Response Messages Aggregate
end-block			
end Aggregate			

## Card Account Relationship Delete Request <CardAcctRelDelRq>

Card Account Relationship Delete Request

See the matching response message [CardAcctRelDelRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
-----	------	-------	---------------------------



begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">CardAcctRelKeys</a>	Aggregate	Required	Card Account Relationship Keys Aggregate
end Aggregate			

---

### Card Account Relationship Delete Response <CardAcctRelDelRs>

Card Account Relationship Delete Response

See the matching request message [CardAcctRelDelRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">CardAcctRelRec</a>	Aggregate	Required	Card Accountt Relationship Record
<a href="#">CardAcctRelStatusRec</a>	Aggregate	Required	Card Accountt Relationship Status Record
end-xor			
end-block			
end Aggregate			

---

### Card Account Relationship Environment Aggregate <CardAcctRelEnvr>

Card Account Relationship Environment Aggregate

Extends: [BaseEnvr](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseEnvr			
<a href="#">CreatedDt</a>	DateTime	Required	Created Date/Time. The date/time the object was created.
<a href="#">CreateRefIdent</a>	NC-36	Optional	An identifier used to uniquely identify the creation of this object to the system that created the object. This will usually be a link to reference information used in creating the object.
<a href="#">ClientCreateDt</a>	DateTime	Optional	The created date/time as reported by the client. This can vary from the object creation date/time due to time zone differences, communication delays, etc
<a href="#">ClientBusinessDt</a>	DateTime	Optional	The date/time that the client recorded this object for operational purposes. This date/time will often be used to manage the availability of information or funds.
<a href="#">LastUpdateDt</a>	DateTime	Optional	Last update Date/Time. The date/time the object was created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LastUpdateRqUID</a>	UUID	Optional	Last update RqUID. The RqUID from the message that resulted in th object being created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LoginName</a>	C-40	Optional	The login name (or Id) of the individual that authorized this object to be created. This is typically used when the object is created on behalf of its owner by someone who is not normally represented as a Party (i.e., an employee or agent).
<a href="#">PartyKeys</a>	Aggregate	Optional	Reference to the Party that this object is owned by or authorized by.
<a href="#">CardKeys</a>	Aggregate	Optional	This is dependent on Card proposal. Currently this is implemented as the CardLogicalData aggregate.
<a href="#">PassbkKeys</a>	Aggregate	Optional	Currently PassbkAcceptData.
<a href="#">NetworkTrnData</a>	Aggregate	Optional	Network Transaction Information. Identification and location of the terminal from which the message originates.
<a href="#">ServerTerminalSeqNum</a>	NC-36	Optional	Server Terminal Sequence Number. A

			terminal sequence number generated by the server to identify this object. This number is used in ATM and POS environments to uniquely identify transactions (with terminal name and date) for transaction management.
<a href="#">PointOfServiceData</a>	Aggregate	Optional	The Point of Service Data. This aggregate contains information about the environment in which this message originated.
<a href="#">ClientTerminalSeqNum</a>	NC-36	Optional	Client Terminal Sequence Number. A terminal sequence number generated by the client to identify this object. This number is used in ATM, POS, Branch, Call Center and Teller environments to uniquely identify transactions at the client (with terminal name and date). This number is often required when requesting supporting documentation related to a customer transaction.
end Elements from BaseEnvr			
begin Aggregate			
end Aggregate			

---

### Card Account Relationship Identifier <CardAcctRelId>

Card Account Relationship Identifier

Datatype: **Identifier**

---

### Card Account Relationship Information Aggregate <CardAcctRelInfo>

Card Account Relationship Information Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">CardRef</a>	Aggregate	Optional	Card Reference Aggregate
<a href="#">AcctRef</a>	Aggregate	Optional	Account Reference Aggregate

<a href="#">CardAcctPriority</a>	Long	Required	Card Account Priority
<a href="#">Nickname</a>	C-40	Optional	Nickname
<a href="#">RelEstablishDt</a>	DateTime	Optional	Relationship Established Date
<a href="#">CardPref</a>	Aggregate	Optional	Overrides the preferences in the CardPref in the Card Object.
end Aggregate			

---

### Card Account Relationship Inquiry Request <CardAcctRelInqRq>

Card Account Relationship Inquiry Request

See the matching response message [CardAcctRelInqRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">DocCtrlIn</a>	Aggregate	Optional	Document Control Input
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
begin-xor		Optional Repeating	
<a href="#">CardAcctRelSel</a>	Aggregate	Required	Card Account Relationship Selection Aggregate
<a href="#">RecSelect</a>	IfxPath	Required	Record Select
end-xor			
end Aggregate			

---

### Card Account Relationship Inquiry Response <CardAcctRelInqRs>

Card Account Relationship Inquiry Response

See the matching request message [CardAcctRelInqRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">DocCtrlOut</a>	Aggregate	Optional	Document Control Output
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">CardAcctRelRec</a>	Aggregate	Required Repeating	Card Accountt Relationship Record
end-block			
end Aggregate			

---

**Card Account Relationship Keys Aggregate <CardAcctRelKeys>**

Card Account Relationship Keys Aggregate

Extends: [BaseKeys](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseKeys			
end Elements from BaseKeys			
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
begin-xor		Required	
<a href="#">CardAcctRelId</a>	Identifier	Required	Card Accountt Relationship Identifier
begin-block		Required	
<a href="#">CardKeys</a>	Aggregate	Required	Card Keys Aggregate
<a href="#">AcctKeys</a>	Aggregate	Required	Account Keys Aggregate
end-block			
end-xor			
end Aggregate			

---

## Card Account Relationship Modify Request <CardAcctRelModRq>

Card Account Relationship Modify Request

See the matching response message [CardAcctRelModRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">CardAcctRelKeys</a>	Aggregate	Required	Card Account Relationship Keys Aggregate
begin-block		Required Repeating	
<a href="#">CardAcctRelInfo</a>	Aggregate	Required	Card Account Relationship Information Aggregate
begin-xor		Optional Repeating	
<a href="#">DelElements</a>	IfxPath	Required	An IfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to delete. It is an error if one attempts to delete Required fields.
<a href="#">UpdElements</a>	IfxPath	Required	An IfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to update. The new value of the updated element is in the accompanying xxxInfo aggregate.
<a href="#">NewElements</a>	IfxPath	Required	An IfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to add. The new value of the new elements is in the accompanying xxxInfo aggregate.
end-xor			
end-block			
end Aggregate			

---

## Card Account Relationship Modify Response <CardAcctRelModRs>

## Card Account Relationship Modify Response

See the matching request message [CardAcctRelModRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">CardAcctRelRec</a>	Aggregate	Required	Card Accountt Relationship Record
<a href="#">CardAcctRelStatusRec</a>	Aggregate	Required	Card Accountt Relationship Status Record
end-xor			
end-block			
end Aggregate			

---

## Card Account Relationship Record <CardAcctRelRec>

Card Account Relationship Record

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">CardAcctRelId</a>	Identifier	Required	Card Accountt Relationship Identifier
<a href="#">CardAcctRelInfo</a>	Aggregate	Required	Card Accountt Relationship Information Aggregate
<a href="#">CardAcctRelEnvr</a>	Aggregate	Optional	Card Account Relationship Environment Aggregate
<a href="#">CardAcctRelStatus</a>	Aggregate	Required	Card Accountt Relationship Status Aggregate

end Aggregate

---

### Card Account Relationship Reference Aggregate <CardAcctRelRef>

Card Account Relationship Reference Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">CardAcctRelKeys</a>	Aggregate	Required	Card Account Relationship Keys Aggregate
<a href="#">CardAcctRelRec</a>	Aggregate	Required	Card Accountt Relationship Record
<a href="#">CardAcctRelInfo</a>	Aggregate	Required	Card Accountt Relationship Information Aggregate
end-xor			
end Aggregate			

---

### Card Account Relationship Reversal Request <CardAcctRelRevRq>

Card Account Relationship Reversal Request

See the matching response message [CardAcctRelRevRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RevReasonCode</a>	Aggregate	Required	Reversal Reason Code
<a href="#">Desc</a>	C-80	Optional	Description
<a href="#">CardAcctRelRqMsg</a>	Aggregate	Required	Card Account Relationship Request



			Messages Aggregate
end Aggregate			

## Card Account Relationship Reversal Response <CardAcctRelRevRs>

Card Account Relationship Reversal Response

See the matching request message [CardAcctRelRevRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
end Aggregate			

## Card Account Relationship Request Messages Aggregate <CardAcctRelRqMsg>

Card Account Relationship Request Messages Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">CardAcctRelAddRq</a>	Aggregate	Required	Card Account Relationship Add Message
<a href="#">CardAcctRelModRq</a>	Aggregate	Required	Card Account Relationship Modify Request
<a href="#">CardAcctRelDelRq</a>	Aggregate	Required	Card Account Relationship Delete Request
<a href="#">CardAcctRelInqRq</a>	Aggregate	Required	Card Account Relationship Inquiry Request

<a href="#">CardAcctRelAdviseRq</a>	Aggregate	Required	Card Account Relationship Advise Message
<a href="#">CardAcctRelAudRq</a>	Aggregate	Required	Card Account Relationship Audit Request
<a href="#">CardAcctRelSyncRq</a>	Aggregate	Required	Card Account Relationship Sync Request
<a href="#">CardAcctRelStatusModRq</a>	Aggregate	Required	Card Account Relationship Status Modify Request
<a href="#">CardAcctRelStatusInqRq</a>	Aggregate	Required	Card Account Relationship Status Inquiry Request
<a href="#">RevRqUID</a>	UUID	Required	Reversal Request Unique ID
end-xor			
end Aggregate			

### Card Account Relationship Response Messages Aggregate <CardAcctRelRsMsg>

Card Account Relationship Response Messages Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">MsgRecDt</a>	Timestamp	Optional	Audit Record Creation Date
begin-xor		Required	
<a href="#">CardAcctRelAddRs</a>	Aggregate	Required	Card Account Relationship Add Response
<a href="#">CardAcctRelModRs</a>	Aggregate	Required	Card Account Relationship Modify Response
<a href="#">CardAcctRelDelRs</a>	Aggregate	Required	Card Account Relationship Delete Response
<a href="#">CardAcctRelRevRs</a>	Aggregate	Required	Card Account Relationship Reversal Response
<a href="#">CardAcctRelInqRs</a>	Aggregate	Required	Card Account Relationship Inquiry Response
<a href="#">CardAcctRelAdviseRs</a>	Aggregate	Required	Card Account Relationship Advise Response
<a href="#">CardAcctRelStatusModRs</a>	Aggregate	Required	Card Account Relationship Status Modify Response
<a href="#">CardAcctRelStatusInqRs</a>	Aggregate	Required	Card Account Relationship Status Inquiry Response

end-xor
end Aggregate

---

### Card Account Relationship Selection Aggregate <CardAcctRelSel>

Card Account Relationship Selection Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required Repeating	
<a href="#">CardAcctRelKeys</a>	Aggregate	Required	Card Account Relationship Keys Aggregate
begin-block		Required	
<a href="#">CardKeys</a>	Aggregate	Optional	Card Keys Aggregate
<a href="#">AcctKeys</a>	Aggregate	Optional	Account Keys Aggregate
end-block			
end-xor			
end Aggregate			

---

### Card Account Relationship Status Aggregate <CardAcctRelStatus>

Card Account Relationship Status Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">CardAcctRelStatusCode</a>	Open Enum	Required	Card Account Relationship Status Code  Valid values include: Active, Deleted, Inactive, PendDelete, Pending
<a href="#">StatusDesc</a>	C-255	Optional	Status Description

<a href="#">EffDt</a>	DateTime	Optional	Effective Date Time
<a href="#">StatusModBy</a>	Open Enum	Optional	Status Modified By  Valid values include: BPP, BPPSR, BSP, BSPSR, CPP, CPPSR, CSP, CSPSR, Customer, FI, PSP
end Aggregate			

---

### Card Account Relationship Status Code <CardAcctRelStatusCode>

Card Account Relationship Status Code

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
Pending		N
Active		N
Inactive		N
PendDelete		N
Deleted		N

---

### Card Account Relationship Status Inquiry Request <CardAcctRelStatusInqRq>

Card Account Relationship Status Inquiry Request

See the matching response message [CardAcctRelStatusInqRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
	Aggregate		

<a href="#">DocCtrlIn</a>		Optional	Document Control Input
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
begin-xor		Optional Repeating	
<a href="#">CardAcctRelSel</a>	Aggregate	Required	Card Account Relationship Selection Aggregate
<a href="#">RecSelect</a>	IfxPath	Required	Record Select
end-xor			
end Aggregate			

---

### Card Account Relationship Status Inquiry Response <CardAcctRelStatusInqRs>

Card Account Relationship Status Inquiry Response

See the matching request message [CardAcctRelStatusInqRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">CardAcctRelStatusRec</a>	Aggregate	Optional Repeating	Card Account Relationship Status Record
end-block			
end Aggregate			

---

### Card Account Relationship Status Modify Request <CardAcctRelStatusModRq>

Card Account Relationship Status Modify Request

See the matching response message [CardAcctRelStatusModRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">CardAcctRelKeys</a>	Aggregate	Required	Card Account Relationship Keys Aggregate
<a href="#">CardAcctRelStatus</a>	Aggregate	Required	Card Accountt Relationship Status Aggregate
end Aggregate			

---

### Card Account Relationship Status Modify Response <CardAcctRelStatusModRs>

Card Account Relationship Status Modify Response

See the matching request message [CardAcctRelStatusModRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">CardAcctRelStatusRec</a>	Aggregate	Required	Card Accountt Relationship Status Record
end-block			
end Aggregate			

---

## Card Account Relationship Status Record <CardAcctRelStatusRec>

Card Account Relationship Status Record

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">CardAcctRelId</a>	Identifier	Required	Card Account Relationship Identifier
<a href="#">CardAcctRelStatus</a>	Aggregate	Required	Card Account Relationship Status Aggregate
end Aggregate			

---

## Card Account Relationship Sync Request <CardAcctRelSyncRq>

Card Account Relationship Sync Request

See the matching response message [CardAcctRelSyncRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
<a href="#">CardAcctRelKeys</a>	Aggregate	Optional Repeating	Card Account Relationship Keys Aggregate
end Aggregate			

---

## Card Account Relationship Sync Response <CardAcctRelSyncRs>

Card Account Relationship Sync Response

See the matching request message [CardAcctRelSyncRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">CardAcctRelRsMsg</a>	Aggregate	Optional Repeating	Card Account Relationship Response Messages Aggregate
end-block			
end Aggregate			

---

**Card Addenda <CardAddenda>**

Provides aggregate to supply card addenda data for Airline, Vehicle Rental and Lodging transactions.

Extended By: [AirlineAddenda](#), [LodgingAddenda](#), [VehicleRentalAddenda](#)

Datatype: **Abstract Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
end Aggregate			

---

**Card Add Message <CardAddRq>**

Card Add Message

See the matching response message [CardAddRs](#)

Datatype: **Aggregate**



Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">CardInfo</a>	Aggregate	Required	Card Information Aggregate
<a href="#">CardAuth</a>	Aggregate	Optional	Card Authentication Aggregate
end Aggregate			

---

### Card Add Response <CardAddRs>

Card Add Response

See the matching request message [CardAddRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">CardRec</a>	Aggregate	Required	Card Record
<a href="#">CardStatusRec</a>	Aggregate	Required	Card Status Record
end-xor			
end-block			
end Aggregate			

---

### Card Advise Message <CardAdviseRq>

Card Advise Message

See the matching response message [CardAdviseRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
begin-xor		Required	
<a href="#">CardRec</a>	Aggregate	Required	Card Record
<a href="#">CardStatusRec</a>	Aggregate	Required	Card Status Record
<a href="#">CardAuthRec</a>	Aggregate	Required	Card Authentication Record
end-xor			
end Aggregate			

---

### Card Advise Response <CardAdviseRs>

Card Advise Response

See the matching request message [CardAdviseRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">CardRec</a>	Aggregate	Required	Card Record
<a href="#">CardStatusRec</a>	Aggregate	Required	Card Status Record
<a href="#">CardAuthRec</a>	Aggregate	Required	Card Authentication Record
end-xor			

end-block

end Aggregate

---

### Card Amount Source <CardAmtSource>

Card Amount Source.

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
ATM		N
OTC		N
POS		N

---

### Card Amount Type <CardAmtType>

Card Amount Type.

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
CashAdv		N
Purchase		N
Withdrawal		N
HiPurch		N
Debit		N
Credit		N
Deposit		N

---

### Card Audit Request <CardAudRq>

## Card Audit Request

See the matching response message [CardAudRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
<a href="#">DtRange</a>	Aggregate	Optional	Date Range
<a href="#">Method</a>	Closed Enum	Optional Repeating	Method Valid values are limited to: Add, Advise, AuthMod, Can, Del, Mod, StatusMod
<a href="#">CardKeys</a>	Aggregate	Optional Repeating	Card Keys Aggregate
end Aggregate			

---

## Card Audit Response <CardAudRs>

Card Audit Response

See the matching request message [CardAudRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">CardRsMsg</a>	Aggregate	Optional Repeating	Card Response Messages Aggregate
end-block			

end-block
end Aggregate

### Card Authentication Aggregate <CardAuth>

Card Authentication Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Optional	
<a href="#">SecToken</a>	Abstract Aggregate	Optional	<b>Valid Aggregates are:</b> SecTokenCard SecTokenCert SecTokenICC SecTokenIssuedIdent Security Token SecTokenKey SecTokenLogin SecTokenMagCard SecTokenObject SecTokenParty SecTokenSecretAnswer
<a href="#">ResetPinBlock</a>	Open Enum	Optional	Reset PIN Block <hr/> Valid values include: InvalidPINAttempts, NumOfAttempts, OfflinePINTries
end-xor			
<a href="#">TemporaryPINInd</a>	Boolean	Optional	Temporary PIN Indicator
end Aggregate			

### Card Authorization Inquiry Request <CardAuthInqRq>

Card Authorization Inquiry Request

See the matching response message [CardAuthInqRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes

begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">DocCtrlIn</a>	Aggregate	Optional	Document Control Input
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
begin-xor		Optional Repeating	
<a href="#">CardSel</a>	Aggregate	Required	Card Selection Aggregate
<a href="#">RecSelect</a>	IfxPath	Required	Record Select
end-xor			
end Aggregate			

---

### Card Authorization Inquiry Response <CardAuthInqRs>

Card Authorization Inquiry Response

See the matching request message [CardAuthInqRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">CardAuthRec</a>	Aggregate	Optional Repeating	Card Authentication Record
end-block			
end Aggregate			

---

### Card Authorization Modify Request <CardAuthModRq>

## Card Authorization Modify Request

See the matching response message [CardAuthModRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">CardKeys</a>	Aggregate	Optional	Card Keys Aggregate
<a href="#">CardAuth</a>	Aggregate	Required	Card Authentication Aggregate
end Aggregate			

---

## Card Authorizatio Modify Response <CardAuthModRs>

Card Authorizatio Modify Response

See the matching request message [CardAuthModRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">CardAuthRec</a>	Aggregate	Required	Card Authentication Record
end-block			
end Aggregate			

---

## Card Authentication Record <CardAuthRec>

## Card Authentication Record

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">CardId</a>	Identifier	Required	Card Identifier
<a href="#">CardAuth</a>	Aggregate	Required	Card Authentication Aggregate
end Aggregate			

---

### Card Branch <CardBranch>

The branch assigned to the card.

Datatype: **C-32**

---

### Card Category <CardCategory>

The issuer's categorization of the card.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Classic		N
Gold		N
Platinum		N

---

### Card Chip Data <CardChipData>



## Card Chip Data

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">AppPan</a>	HexBin-20	Optional	Application Primary Account Number
<a href="#">AppPanSeq</a>	HexBin-1	Optional	Application PAN Sequence Number
<a href="#">AppIdent</a>	HexBin-16	Optional	Application Identifier
<a href="#">Trk2EquivData</a>	HexBin-20	Optional	Track 2 Equivalent Data
end Aggregate			

---

## Card Delete Request <CardDelRq>

Card Delete Request

See the matching response message [CardDelRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">CardKeys</a>	Aggregate	Required	Card Keys Aggregate
end Aggregate			

---

## Card Delete Response <CardDelRs>

Card Delete Response

See the matching request message [CardDelRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
-----	------	-------	---------------------------

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">CardRec</a>	Aggregate	Required	Card Record
<a href="#">CardStatusRec</a>	Aggregate	Required	Card Status Record
end-xor			
end-block			
end Aggregate			

---

### Card Design <CardDesign>

Card design or Card Stock requested for the replacement card if different from original card design or card stock.

Datatype: **NC-16**

---

### Embossed Card Number <CardEmbossNum>

The formatted card number or PAN . The card number embossed on the card.

Datatype: **NC-32**

---

### Card Environment Aggregate <CardEnvr>

Card Environment Aggregate

Extends: [BaseEnvr](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseEnvr			
<a href="#">CreatedDt</a>	DateTime	Required	Created Date/Time. The date/time the object was created.
<a href="#">CreateRefIdent</a>	NC-36	Optional	An identifier used to uniquely identify the creation of this object to the system that created the object. This will usually be a link to reference information used in creating the object.
<a href="#">ClientCreateDt</a>	DateTime	Optional	The created date/time as reported by the client. This can vary from the object creation date/time due to time zone differences, communication delays, etc
<a href="#">ClientBusinessDt</a>	DateTime	Optional	The date/time that the client recorded this object for operational purposes. This date/time will often be used to manage the availability of information or funds.
<a href="#">LastUpdateDt</a>	DateTime	Optional	Last update Date/Time. The date/time the object was created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LastUpdateRqUID</a>	UUID	Optional	Last update RqUID. The RqUID from the message that resulted in th object being created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LoginName</a>	C-40	Optional	The login name (or Id) of the individual that authorized this object to be created. This is typically used when the object is created on behalf of its owner by someone who is not normally represented as a Party (i.e., an employee or agent).
<a href="#">PartyKeys</a>	Aggregate	Optional	Reference to the Party that this object is owned by or authorized by.
<a href="#">CardKeys</a>	Aggregate	Optional	This is dependent on Card proposal. Currently this is implemented as the CardLogicalData aggregate.
<a href="#">PassbkKeys</a>	Aggregate	Optional	Currently PassbkAcceptData.
<a href="#">NetworkTrnData</a>	Aggregate	Optional	Network Transaction Information. Identification and location of the terminal from which the message originates.

<a href="#">ServerTerminalSeqNum</a>	NC-36	Optional	Server Terminal Sequence Number. A terminal sequence number generated by the server to identify this object. This number is used in ATM and POS environments to uniquely identify transactions (with terminal name and date) for transaction management.
<a href="#">PointOfServiceData</a>	Aggregate	Optional	The Point of Service Data. This aggregate contains information about the environment in which this message originated.
<a href="#">ClientTerminalSeqNum</a>	NC-36	Optional	Client Terminal Sequence Number. A terminal sequence number generated by the client to identify this object. This number is used in ATM, POS, Branch, Call Center and Teller environments to uniquely identify transactions at the client (with terminal name and date). This number is often required when requesting supporting documentation related to a customer transaction.
end Elements from BaseEnvr			
begin Aggregate			
end Aggregate			

---

### Card Identifier <CardId>

Card Identifier

Datatype: **Identifier**

---

### Card Information Aggregate <CardInfo>

Card Information Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">CardNum</a>	NC-32	Required	Card Number

<a href="#">CardEmbossNum</a>	NC-32	Optional	Embossed Card Number
<a href="#">CardSeqNum</a>	NC-3	Optional	Card Sequence Number
<a href="#">CardType</a>	Open Enum	Optional	Card Type  Valid values include: ATM, Credit, Debit, Identification, Loyalty, Multifunction, Prepaid  Default Value: Debit
<a href="#">Brand</a>	Open Enum	Optional	Card Brand  Valid values include: AmEx, CarteBancaire, Discover, JCB, MasterCard, PrivateLabel, VISA
<a href="#">CardTechnology</a>	Open Enum	Optional	Card Technology  Valid values include: ICCCard, MagStripeCard
<a href="#">IssuerName</a>	C-80	Optional	Card Issuer Name
<a href="#">FIData</a>	Aggregate	Optional	Financial Institution Data Aggregate
<a href="#">AffinityName</a>	C-40	Optional	Affinity Name
<a href="#">ValidFromDt</a>	DateTime	Optional	Valid From Date
<a href="#">IssueDt</a>	DateTime	Optional	Issue Date
<a href="#">ExpDt</a>	DateTime	Optional	Expiration Date
<a href="#">OrigIssueDt</a>	DateTime	Optional	Original Issue Date
<a href="#">NextIssueDt</a>	DateTime	Optional	Next Issue Date
<a href="#">CardVrfyData</a>	NC-16	Optional	Card Verification Data
<a href="#">CardCategory</a>	Open Enum	Optional	Card Category  Valid values include: Classic, Gold, Platinum
<a href="#">Name</a>	C-40	Optional	Name
<a href="#">SecondaryName</a>	C-40	Optional	Secondary Name
<a href="#">PostAddr</a>	Aggregate	Optional	Postal Address
<a href="#">CardTrnLimit</a>	Aggregate	Optional Repeating	Card Transaction Limit
<a href="#">AutoReissue</a>	Boolean	Optional	Auto Reissue
<a href="#">AutoReplacement</a>	Boolean	Optional	Auto Replacement
<a href="#">ReplacementDt</a>	DateTime	Optional	Replacement Date
<a href="#">MemberSinceDt</a>	DateTime	Optional	Member Since Date
<a href="#">InterchangeServiceCode</a>	Open Enum	Optional	Interchange Service Code
<a href="#">CardPref</a>	Aggregate	Optional	Card Preference

<a href="#">CardValidation</a>	C-20	Optional	Card Validation
<a href="#">FirstUseDt</a>	DateTime	Optional	First Use Date
<a href="#">CaptureDtTm</a>	DateTime	Optional	Capture Date Time
<a href="#">CaptureReason</a>	C-20	Optional	Capture Reason
<a href="#">CaptureTerminal</a>	C-10	Optional	Capture Terminal
<a href="#">CaptureBank</a>	C-32	Optional	Capture Bank
<a href="#">CaptureLocation</a>	C-40	Optional	Capture Location
<a href="#">FraudEffectiveDt</a>	DateTime	Optional	Fraud Effective Date
<a href="#">PreviousValidFromDt</a>	DateTime	Optional	Previous Valid From Date
<a href="#">PreviousExpirationDt</a>	DateTime	Optional	Previous Expiration Date
<a href="#">NonReissueRsn</a>	Open Enum	Optional	Non Reissue Reason  Valid values include: Delinquent, Inactive, Overline, Status
<a href="#">ActivationInd</a>	Boolean	Optional	Activation Indicator
<a href="#">ActivationMeth</a>	Open Enum	Optional	Activation Method  Valid values include: CSR, IVR, Web
<a href="#">ActivationDt</a>	DateTime	Optional	Activation Date
<a href="#">SendtoBranchStDt</a>	DateTime	Optional	Send to Branch Start Date
<a href="#">SendtoBranchEndDt</a>	DateTime	Optional	Send to Branch End Date
<a href="#">CardBranch</a>	C-32	Optional	Card Branch
<a href="#">PreissueExpirationDt</a>	DateTime	Optional	Preissue Expiration Date
<a href="#">MCCLimit</a>	C-10	Optional	MCC Limit
<a href="#">LostStolenIncident</a>	Aggregate	Optional	Lost Stolen Incident
<a href="#">CardOrderRef</a>	Aggregate	Optional	Card Order Reference Aggregate
<a href="#">CardPeriodData</a>	Aggregate	Optional	Card Period Data
<a href="#">ExceptionRpt</a>	Aggregate	Optional	Exception Report Aggregate
end Aggregate			

---

### Card Inquiry Request <CardInqRq>

Card Inquiry Request

See the matching response message [CardInqRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">DocCtrlIn</a>	Aggregate	Optional	Document Control Input
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
begin-xor		Optional Repeating	
<a href="#">CardSel</a>	Aggregate	Required	Card Selection Aggregate
<a href="#">RecSelect</a>	IfxPath	Required	Record Select
end-xor			
end Aggregate			

---

**Card Inquiry Response <CardInqRs>**

Card Inquiry Response

See the matching request message [CardInqRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">DocCtrlOut</a>	Aggregate	Optional	Document Control Output
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">CardRec</a>	Aggregate	Required Repeating	Card Record
end-block			
end Aggregate			

---

## Card Keys Aggregate <CardKeys>

Card Keys Aggregate

Extends:[BaseKeys](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseKeys			
end Elements from BaseKeys			
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
begin-xor		Required	
<a href="#">CardId</a>	Identifier	Required	Card Identifier
begin-block		Required	
<a href="#">CardNum</a>	NC-32	Required	Card Number
<a href="#">CardSeqNum</a>	NC-3	Optional	Card Sequence Number
end-block			
end-xor			
end Aggregate			

---

## Card Magnetic Stripe Data <CardMagData>

This is the card data identifier of the user for whom the request is being issued.

This element is required if the owner of the object(s) specified in the request is not the user specified in <SignonRq>. For example, if an ATM issues the request on behalf of the user, then <CardMagData> is required, and must contain the value of the user whose request is being issued.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-or		Required	
<a href="#">MagData1</a>	NC-79	Required	Track 1 data
end-or			
end Aggregate			



<a href="#">MsgData2</a>	NC-40	Required	Track 2 data
<a href="#">MsgData3</a>	NC-107	Required	Track 3 data
end-or			
end Aggregate			

## Card Modify Request <CardModRq>

Card Modify Request

See the matching response message [CardModRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">CardKeys</a>	Aggregate	Required	Card Keys Aggregate
begin-block		Required Repeating	
<a href="#">CardInfo</a>	Aggregate	Required	Card Information Aggregate
begin-xor		Optional Repeating	
<a href="#">DelElements</a>	IfxPath	Required	An IfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to delete. It is an error if one attempts to delete Required fields.
<a href="#">UpdElements</a>	IfxPath	Required	An IfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to update. The new value of the updated element is in the accompanying xxxInfo aggregate.
<a href="#">NewElements</a>	IfxPath	Required	An IfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to add. The new value of the new elements is in the accompanying xxxInfo aggregate.
end-xor			
end-block			
end Aggregate			

---

## Card Modify Response <CardModRs>

Card Modify Response

See the matching request message [CardModRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">CardRec</a>	Aggregate	Required	Card Record
<a href="#">CardStatusRec</a>	Aggregate	Required	Card Status Record
end-xor			
end-block			
end Aggregate			

---

## Card Number <CardNum>

The card number or PAN encoded on the card.

Datatype: **NC-32**

---

## Card Order Add Message <CardOrderAddRq>

Card Order Add Message

See the matching response message [CardOrderAddRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">CardOrderInfo</a>	Aggregate	Required	Card Order Information Aggregate
end Aggregate			

---

### Card Order Add Response <CardOrderAddRs>

Card Order Add Response

See the matching request message [CardOrderAddRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">CardOrderRec</a>	Aggregate	Required	Card Order Record
<a href="#">CardOrderStatusRec</a>	Aggregate	Required	Card Order Status Record
end-xor			
end-block			
end Aggregate			

---

### Card Order Advise Message <CardOrderAdviseRq>

## Card Order Advise Message

See the matching response message [CardOrderAdviseRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
begin-xor		Required	
<a href="#">CardOrderRec</a>	Aggregate	Required	Card Order Record
<a href="#">CardOrderStatusRec</a>	Aggregate	Required	Card Order Status Record
end-xor			
end Aggregate			

---

## Card Order Advise Response <CardOrderAdviseRs>

Card Order Advise Response

See the matching request message [CardOrderAdviseRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">CardOrderRec</a>	Aggregate	Required	Card Order Record
<a href="#">CardOrderStatusRec</a>	Aggregate	Required	Card Order Status Record
end-xor			
end-block			

end Aggregate

### Card Order Audit Request <CardOrderAudRq>

Card Order Audit Request

See the matching response message [CardOrderAudRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
<a href="#">DtRange</a>	Aggregate	Optional	Date Range
<a href="#">Method</a>	Closed Enum	Optional Repeating	Method Valid values are limited to: Add, Advise, AuthMod, Can, Del, Mod, StatusMod
<a href="#">CardOrderKeys</a>	Aggregate	Optional Repeating	Card Order Keys Aggregate
end Aggregate			

### Card Order Audit Response <CardOrderAudRs>

Card Order Audit Response

See the matching request message [CardOrderAudRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier

<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">CardOrderRsMsg</a>	Aggregate	Optional Repeating	Card Order Response Messages Aggregate
end-block			
end Aggregate			

---

### Card Order Cancel Request <CardOrderCanRq>

Card Order Cancel Request

See the matching response message [CardOrderCanRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">CardOrderKeys</a>	Aggregate	Required	Card Order Keys Aggregate
end Aggregate			

---

### Card Order Cancel Response <CardOrderCanRs>

Card Order Cancel Response

See the matching request message [CardOrderCanRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status

<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">CardOrderRec</a>	Aggregate	Required	Card Order Record
<a href="#">CardOrderStatusRec</a>	Aggregate	Required	Card Order Status Record
end-xor			
end-block			
end Aggregate			

### Card Order Environment Aggregate <CardOrderEnvr>

Card Order Environment Aggregate

Extends: [BaseEnvr](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseEnvr			
<a href="#">CreatedDt</a>	DateTime	Required	Created Date/Time. The date/time the object was created.
<a href="#">CreateRefIdent</a>	NC-36	Optional	An identifier used to uniquely identify the creation of this object to the system that created the object. This will usually be a link to reference information used in creating the object.
<a href="#">ClientCreatedDt</a>	DateTime	Optional	The created date/time as reported by the client. This can vary from the object creation date/time due to time zone differences, communication delays, etc
<a href="#">ClientBusinessDt</a>	DateTime	Optional	The date/time that the client recorded this object for operational purposes. This date/time will often be used to manage the availability of information or funds.
<a href="#">LastUpdateDt</a>	DateTime	Optional	Last update Date/Time. The date/time the object was created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
	UUID		

<a href="#">LastUpdateRqUID</a>		Optional	Last update RqUID. The RqUID from the message that resulted in th object being created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LoginName</a>	C-40	Optional	The login name (or Id) of the individual that authorized this object to be created. This is typically used when the object is created on behalf of its owner by someone who is not normally represented as a Party (i.e., an employee or agent).
<a href="#">PartyKeys</a>	Aggregate	Optional	Reference to the Party that this object is owned by or authorized by.
<a href="#">CardKeys</a>	Aggregate	Optional	This is dependent on Card proposal. Currently this is implemented as the CardLogicalData aggregate.
<a href="#">PassbkKeys</a>	Aggregate	Optional	Currently PassbkAcceptData.
<a href="#">NetworkTrnData</a>	Aggregate	Optional	Network Transaction Information. Identification and location of the terminal from which the message originates.
<a href="#">ServerTerminalSeqNum</a>	NC-36	Optional	Server Terminal Sequence Number. A terminal sequence number generated by the server to identify this object. This number is used in ATM and POS environments to uniquely identify transactions (with terminal name and date) for transaction management.
<a href="#">PointOfServiceData</a>	Aggregate	Optional	The Point of Service Data. This aggregate contains information about the environment in which this message originated.
<a href="#">ClientTerminalSeqNum</a>	NC-36	Optional	Client Terminal Sequence Number. A terminal sequence number generated by the client to identify this object. This number is used in ATM, POS, Branch, Call Center and Teller environments to uniquely identify transactions at the client (with terminal name and date). This number is often required when requesting supporting documentation related to a customer transaction.
end Elements from BaseEnvr			
begin Aggregate			
end Aggregate			



## Card Order Identifier <CardOrderId>

Card Order Identifier

Datatype: **Identifier**

---

## Card Order Information Aggregate <CardOrderInfo>

Card Order Information Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">CardEmbossNum</a>	NC-32	Required	Embossed Card Number
<a href="#">CardSeqNum</a>	NC-3	Optional	Card Sequence Number
<a href="#">ValidFromDt</a>	DateTime	Optional	Valid From Date
<a href="#">ExpDt</a>	DateTime	Optional	Expiration Date
<a href="#">Name</a>	C-40	Optional	Name
<a href="#">SecondaryName</a>	C-40	Optional	Secondary Name
<a href="#">CardMagData</a>	Aggregate	Optional	Card Magnetic Stripe Data
<a href="#">OrigIssueDt</a>	DateTime	Optional	Original Issue Date
<a href="#">CardRef</a>	Aggregate	Optional	Card Reference Aggregate
<a href="#">PhotoInd</a>	Boolean	Optional	Photo Indicator
<a href="#">PictureRefIdent</a>	NC-36	Optional	Picture Reference Identification
<a href="#">CardDesign</a>	NC-16	Optional	Card Design
<a href="#">CSPhoneNum</a>	Phone Number	Optional	Card (customer) service phone number
<a href="#">MemberSinceDt</a>	DateTime	Optional	Member Since Date
<a href="#">CardType</a>	Open Enum	Optional	Card Type <hr/> Valid values include: ATM, Credit, Debit, Identification, Loyalty, Multifunction, Prepaid  Default Value: Debit
<a href="#">CardCategory</a>	Open Enum	Optional	Card Category <hr/> Valid values include: Classic, Gold, Platinum

<a href="#">Brand</a>	Open Enum	Optional	Card Brand Valid values include: AmEx, CarteBancaire, Discover, JCB, MasterCard, PrivateLabel, VISA
<a href="#">AffinityName</a>	C-40	Optional	Affinity Name
<a href="#">IssuerName</a>	C-80	Optional	Card Issuer Name
<a href="#">CardTechnology</a>	Open Enum	Optional	Card Technology Valid values include: ICCCard, MagStripeCard
<a href="#">VendorProductIdent</a>	C-255	Optional	Vendor Product Identification
<a href="#">IssueReason</a>	Open Enum	Optional	Issue Reason Valid values include: AcceleratedReissue, Additional, Lost/Stolen, New, Preissue, Reissue, Replace
<a href="#">PinWaive</a>	Boolean	Optional	Pin Waive
<a href="#">PremailerDt</a>	DateTime	Optional	Premailer Date
<a href="#">PostmailerDt</a>	DateTime	Optional	Postmailer Date
<a href="#">PinmailerDt</a>	DateTime	Optional	Pinmailer Date
<a href="#">OrderAcptDt</a>	DateTime	Optional	Order Accept Date
<a href="#">OrderSchedDt</a>	DateTime	Optional	Order Schedule Date
<a href="#">OrderShipDt</a>	DateTime	Optional	Order Ship Date
<a href="#">ReturnReason</a>	C-20	Optional	Return Reason
<a href="#">ReturnReasonDt</a>	DateTime	Optional	Return Reason Date
<a href="#">ReturnResolveReason</a>	C-20	Optional	Return Resolve Reason
<a href="#">ReturnResolveReasonDt</a>	DateTime	Optional	Return Resolve Reason Date
<a href="#">ProductionPriority</a>	Open Enum	Optional	Production Priority Valid values include: Emergency, Standard, Urgent
<a href="#">DeliveryInstruction</a>	Aggregate	Optional	Delivery Instruction
<a href="#">PinDeliveryInstruction</a>	Aggregate	Optional	Pin Delivery Instruction
<a href="#">PinOnlyInd</a>	Boolean	Optional	Pin Only Indicator
end Aggregate			

---

**Card Order Inquiry Request <CardOrderInqRq>**

## Card Order Inquiry Request

See the matching response message [CardOrderInqRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">DocCtrlIn</a>	Aggregate	Optional	Document Control Input
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
begin-xor		Optional Repeating	
<a href="#">CardOrderSel</a>	Aggregate	Required	Card Order Selection Aggregate
<a href="#">RecSelect</a>	lfxPath	Required	Record Select
end-xor			
end Aggregate			

---

## Card Order Inquiry Response <CardOrderInqRs>

Card Order Inquiry Response

See the matching request message [CardOrderInqRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">DocCtrlOut</a>	Aggregate	Optional	Document Control Output
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
	Aggregate		

<a href="#">CardOrderRec</a>		Required Repeating	Card Order Record
end-block			
end Aggregate			

---

### Card Order Keys Aggregate <CardOrderKeys>

Card Order Keys Aggregate

Extends: [BaseKeys](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseKeys			
end Elements from BaseKeys			
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
begin-xor		Required	
<a href="#">CardOrderId</a>	Identifier	Required	Card Order Identifier
begin-or		Required	
begin-xor		Optional	
<a href="#">CardEmbossNum</a>	NC-32	Required	Embossed Card Number
<a href="#">CardNum</a>	NC-32	Required	Card Number
end-xor			
<a href="#">CardSeqNum</a>	NC-3	Optional	Card Sequence Number
<a href="#">CreatedDt</a>	DateTime	Required	Creation DateTime
end-or			
end-xor			
end Aggregate			

---

### Card Order Modify Request <CardOrderModRq>

Card Order Modify Request

See the matching response message [CardOrderModRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">CardOrderKeys</a>	Aggregate	Required	Card Order Keys Aggregate
begin-block		Required Repeating	
<a href="#">CardOrderInfo</a>	Aggregate	Required	Card Order Information Aggregate
begin-xor		Required Repeating	
<a href="#">DelElements</a>	lfxPath	Required	An lfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to delete. It is an error if one attempts to delete Required fields.
<a href="#">UpdElements</a>	lfxPath	Required	An lfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to update. The new value of the updated element is in the accompanying xxxInfo aggregate.
<a href="#">NewElements</a>	lfxPath	Required	An lfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to add. The new value of the new elements is in the accompanying xxxInfo aggregate.
end-xor			
end-block			
end Aggregate			

---

**Card Order Modify Response <CardOrderModRs>**

Card Order Modify Response

See the matching request message [CardOrderModRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	

<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">CardOrderRec</a>	Aggregate	Required	Card Order Record
<a href="#">CardOrderStatusRec</a>	Aggregate	Required	Card Order Status Record
end-xor			
end-block			
end Aggregate			

---

### Card Order Record <CardOrderRec>

Card Order Record

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">CardOrderId</a>	Identifier	Required	Card Order Identifier
<a href="#">CardOrderInfo</a>	Aggregate	Required	Card Order Information Aggregate
<a href="#">CardOrderEnvr</a>	Aggregate	Optional	Card Order Environment Aggregate
<a href="#">CardOrderStatus</a>	Aggregate	Required	Card Order Status Aggregate
end Aggregate			

---

### Card Order Reference Aggregate <CardOrderRef>

Card Order Reference Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes

begin Aggregate			
begin-xor		Required	
<a href="#">CardOrderKeys</a>	Aggregate	Required	Card Order Keys Aggregate
<a href="#">CardOrderRec</a>	Aggregate	Required	Card Order Record
<a href="#">CardOrderInfo</a>	Aggregate	Required	Card Order Information Aggregate
end-xor			
end Aggregate			

---

### Card Order Reversal Request <CardOrderRevRq>

Card Order Reversal Request

See the matching response message [CardOrderRevRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RevReasonCode</a>	Aggregate	Required	Reversal Reason Code
<a href="#">Desc</a>	C-80	Optional	Description
<a href="#">CardOrderRqMsg</a>	Aggregate	Required	Card Order Request Messages Aggregate
end Aggregate			

---

### Card Order Reversal Response <CardOrderRevRs>

Card Order Reversal Response

See the matching request message [CardOrderRevRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes

begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
end Aggregate			

---

### Card Order Request Messages Aggregate <CardOrderRqMsg>

Card Order Request Messages Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">CardOrderAddRq</a>	Aggregate	Required	Card Order Add Message
<a href="#">CardOrderModRq</a>	Aggregate	Required	Card Order Modify Request
<a href="#">CardOrderCanRq</a>	Aggregate	Required	Card Order Cancel Request
<a href="#">CardOrderInqRq</a>	Aggregate	Required	Card Order Inquiry Request
<a href="#">CardOrderAdviseRq</a>	Aggregate	Required	Card Order Advise Message
<a href="#">CardOrderAudRq</a>	Aggregate	Required	Card Order Audit Request
<a href="#">CardOrderSyncRq</a>	Aggregate	Required	Card Order Sync Request
<a href="#">CardOrderStatusModRq</a>	Aggregate	Required	Card Order Status Modify Request
<a href="#">CardOrderStatusInqRq</a>	Aggregate	Required	Card Order Status Inquiry Request
<a href="#">RevRqUID</a>	UUID	Required	Reversal Request Unique ID
end-xor			
end Aggregate			

---

### Card Order Response Messages Aggregate <CardOrderRsMsg>

Card Order Response Messages Aggregate



Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">MsgRecDt</a>	Timestamp	Optional	Audit Record Creation Date
begin-xor		Required	
<a href="#">CardOrderAddRs</a>	Aggregate	Required	Card Order Add Response
<a href="#">CardOrderModRs</a>	Aggregate	Required	Card Order Modify Response
<a href="#">CardOrderCanRs</a>	Aggregate	Required	Card Order Cancel Response
<a href="#">CardOrderRevRs</a>	Aggregate	Required	Card Order Reversal Response
<a href="#">CardOrderInqRs</a>	Aggregate	Required	Card Order Inquiry Response
<a href="#">CardOrderAdviseRs</a>	Aggregate	Required	Card Order Advise Response
<a href="#">CardOrderStatusModRs</a>	Aggregate	Required	Card Order Status Modify Response
<a href="#">CardOrderStatusInqRs</a>	Aggregate	Required	Card Order Status Inquiry Response
end-xor			
end Aggregate			

---

**Card Order Selection Aggregate <CardOrderSel>**

Card Order Selection Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required Repeating	
<a href="#">CardOrderKeys</a>	Aggregate	Required	Card Order Keys Aggregate
end-xor			
end Aggregate			

---

**Card Order Status Aggregate <CardOrderStatus>**

## Card Order Status Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">CardOrderStatusCode</a>	Open Enum	Required	Card Order Status Code Valid values include: Deleted, Valid
<a href="#">StatusDesc</a>	C-255	Optional	Status Description
<a href="#">EffDt</a>	DateTime	Optional	Effective Date Time
<a href="#">StatusModBy</a>	Open Enum	Optional	Status Modified By Valid values include: BPP, BPPSR, BSP, BSPSR, CPP, CPPSR, CSP, CSPSR, Customer, FI, PSP
end Aggregate			

---

### Card Order Status Code <CardOrderStatusCode>

Card Order Status Code

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
Valid		N
Deleted		N

---

### Card Order Status Inquiry Request <CardOrderStatusInqRq>

Card Order Status Inquiry Request

See the matching response message [CardOrderStatusInqRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
begin-xor		Optional Repeating	
<a href="#">CardOrderSel</a>	Aggregate	Required	Card Order Selection Aggregate
<a href="#">RecSelect</a>	lfxPath	Required	Record Select
end-xor			
end Aggregate			

---

### Card Order Status Inquiry Response <CardOrderStatusInqRs>

Card Order Status Inquiry Response

See the matching request message [CardOrderStatusInqRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">CardOrderStatusRec</a>	Aggregate	Optional Repeating	Card Order Status Record
end-block			
end Aggregate			

---

### Card Order Status Modify Request <CardOrderStatusModRq>

## Card Order Status Modify Request

See the matching response message [CardOrderStatusModRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">CardOrderKeys</a>	Aggregate	Required	Card Order Keys Aggregate
<a href="#">CardOrderStatus</a>	Aggregate	Required	Card Order Status Aggregate
end Aggregate			

---

## Card Order Status Modify Response <CardOrderStatusModRs>

Card Order Status Modify Response

See the matching request message [CardOrderStatusModRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">CardOrderStatusRec</a>	Aggregate	Required	Card Order Status Record
end-block			
end Aggregate			

---

## Card Order Status Record <CardOrderStatusRec>

## Card Order Status Record

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">CardOrderId</a>	Identifier	Required	Card Order Identifier
<a href="#">CardOrderStatus</a>	Aggregate	Required	Card Order Status Aggregate
end Aggregate			

---

## Card Order Sync Request <CardOrderSyncRq>

Card Order Sync Request

See the matching response message [CardOrderSyncRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
<a href="#">CardOrderKeys</a>	Aggregate	Optional Repeating	Card Order Keys Aggregate
end Aggregate			

---

## Card Order Sync Response <CardOrderSyncRs>

Card Order Sync Response

See the matching request message [CardOrderSyncRq](#)

Datatype: **Aggregate**

---

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">CardOrderRsMsg</a>	Aggregate	Optional Repeating	Card Order Response Messages Aggregate
end-block			
end Aggregate			

## Card Period Data <CardPeriodData>

Card Period Data Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">CardAmtType</a>	Open Enum	Optional	Card Amount Type Valid values include: CashAdv, Credit, Debit, Deposit, HiPurch, Purchase, Withdrawal
<a href="#">CardAmtSource</a>	Open Enum	Optional	Card Amount Source Valid values include: ATM, OTC, POS
<a href="#">CardPeriodType</a>	Open Enum	Optional	Card Period Type Valid values include: CTD, Daily, LTD, MTD, PriorCycle, PriorMth, PriorYr, Weekly, YTD
<a href="#">LastOccurInd</a>	Boolean	Optional	Last Occurance Indicator
<a href="#">EffDt</a>	DateTime	Optional	Effective Date Time
<a href="#">ExpDt</a>	DateTime	Optional	Expiration Date
<a href="#">Amt</a>	Decimal	Optional	Amount
<a href="#">Count</a>	Long	Optional	Count
<a href="#">LastOccuranceDt</a>	DateTime	Optional	Last Occurance Date

end Aggregate

---

### Card Period Type <CardPeriodType>

Card Period Type.

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
Daily		N
Weekly		N
CTD		N
LTD		N
MTD		N
PriorCycle		N
PriorMth		N
PriorYr		N
YTD		N

---

### Card Preference <CardPref>

Card Preference

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">Language</a>	NC-17	Optional	Language
<a href="#">CardPrefTrn</a>	Aggregate	Optional Repeating	Card Preference Transaction
end Aggregate			

---

## Card Preference Transaction <CardPrefTrn>

Card Preference Transaction

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">TrnType</a>	Aggregate	Required	Transaction Type
<a href="#">AcctId</a>	Identifier	Optional	Account Identifier
<a href="#">CurAmt</a>	Aggregate	Optional	Currency Amount
<a href="#">PrintReceipt</a>	Boolean	Optional	Print Receipt
end Aggregate			

---

## Card Record <CardRec>

Card Record

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdnt</a>	Aggregate	Optional	Service Identifier
<a href="#">CardId</a>	Identifier	Required	Card Identifier
<a href="#">CardInfo</a>	Aggregate	Required	Card Information Aggregate
<a href="#">CardEnvr</a>	Aggregate	Optional	Card Environment Aggregate
<a href="#">CardAuth</a>	Aggregate	Optional	Card Authentication Aggregate
<a href="#">CardStatus</a>	Aggregate	Required	Card Status Aggregate
end Aggregate			

---

## Card Reference Aggregate <CardRef>



## Card Reference Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">CardKeys</a>	Aggregate	Required	Card Keys Aggregate
<a href="#">CardRec</a>	Aggregate	Required	Card Record
<a href="#">CardInfo</a>	Aggregate	Required	Card Information Aggregate
end-xor			
end Aggregate			

---

## Card Reversal Request <CardRevRq>

Card Reversal Request

See the matching response message [CardRevRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RevReasonCode</a>	Aggregate	Required	Reversal Reason Code
<a href="#">Desc</a>	C-80	Optional	Description
<a href="#">CardRqMsg</a>	Aggregate	Required	Card Request Messages Aggregate
end Aggregate			

---

## Card Reversal Response <CardRevRs>

Card Reversal Response

See the matching request message [CardRevRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
end Aggregate			

---

**Card Request Messages Aggregate <CardRqMsg>**

Card Request Messages Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">CardAddRq</a>	Aggregate	Required	Card Add Message
<a href="#">CardModRq</a>	Aggregate	Required	Card Modify Request
<a href="#">CardDelRq</a>	Aggregate	Required	Card Delete Request
<a href="#">CardInqRq</a>	Aggregate	Required	Card Inquiry Request
<a href="#">CardAdviseRq</a>	Aggregate	Required	Card Advise Message
<a href="#">CardAudRq</a>	Aggregate	Required	Card Audit Request
<a href="#">CardSyncRq</a>	Aggregate	Required	Card Sync Request
<a href="#">CardStatusModRq</a>	Aggregate	Required	Card Status Modify Request
<a href="#">CardStatusInqRq</a>	Aggregate	Required	Card Status Inquiry Request
<a href="#">CardAuthModRq</a>	Aggregate	Required	Card Authorization Modify Request
<a href="#">CardAuthInqRq</a>	Aggregate	Required	Card Authorization Inquiry Request
<a href="#">RevRqUID</a>	UUID	Required	Reversal Request Unique ID
end-xor			
end Aggregate			

---

## Card Response Messages Aggregate <CardRsMsg>

Card Response Messages Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">MsgRecDt</a>	Timestamp	Optional	Audit Record Creation Date
begin-xor		Required	
<a href="#">CardAddRs</a>	Aggregate	Required	Card Add Response
<a href="#">CardModRs</a>	Aggregate	Required	Card Modify Response
<a href="#">CardDelRs</a>	Aggregate	Required	Card Delete Response
<a href="#">CardRevRs</a>	Aggregate	Required	Card Reversal Response
<a href="#">CardInqRs</a>	Aggregate	Required	Card Inquiry Response
<a href="#">CardAdviseRs</a>	Aggregate	Required	Card Advise Response
<a href="#">CardStatusModRs</a>	Aggregate	Required	Card Status Modify Response
<a href="#">CardStatusInqRs</a>	Aggregate	Required	Card Status Inquiry Response
<a href="#">CardAuthModRs</a>	Aggregate	Required	Card Authorizatio Modify Response
<a href="#">CardAuthInqRs</a>	Aggregate	Required	Card Authorization Inquiry Response
end-xor			
end Aggregate			

---

## Card Selection Aggregate <CardSel>

Card Selection Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required Repeating	
<a href="#">CardKeys</a>	Aggregate	Required	Card Keys Aggregate
end-xor			

end Aggregate

---

### Card Sequence Number <CardSeqNum>

The sequence number of this card. The value is incremented for each issuance of the Card Number <CardNum>.

Datatype: **NC-3**

---

### Card Signed <CardSigned>

Identifies if the card was signed.

Datatype: **Boolean**

---

### Card Status Aggregate <CardStatus>

Card Status Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">CardStatusCode</a>	Open Enum	Required	Card Status Code Valid values include: Deleted, Valid
<a href="#">StatusDesc</a>	C-255	Optional	Status Description
<a href="#">EffDt</a>	DateTime	Optional	Effective Date Time
<a href="#">ApprovalIdent</a>	NC-36	Optional	Approval Identifier
<a href="#">StatusModBy</a>	Open Enum	Optional	Status Modified By Valid values include: BPP, BPPSR, BSP, BPSR, CPP, CPPSR, CSP, CSPSR, Customer, FI, PSP

<a href="#">CardStatusAction</a>	Open Enum	Optional	Card Status Action  Valid values include: Capture, Decline, Normal, Referral  Default Value: Normal
<a href="#">StatusReason</a>	C-80	Optional	Status Reason
end Aggregate			

---

### Card Status Action <CardStatusAction>

Card Status Action

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
Normal	The card should be processed using normal processing rules.	Y
Referral	Refer to the Issuer.	N
Decline	Decline the financial authorization.	N
Capture	The card should be captured and returned to the issuer if possible.	N

---

### Card Status Code <CardStatusCode>

Card Status Code

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
Valid		N
Deleted		N

---

## Card Status Inquiry Request <CardStatusInqRq>

Card Status Inquiry Request

See the matching response message [CardStatusInqRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">DocCtrlIn</a>	Aggregate	Optional	Document Control Input
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
begin-xor		Optional Repeating	
<a href="#">CardSel</a>	Aggregate	Required	Card Selection Aggregate
<a href="#">RecSelect</a>	IfxPath	Required	Record Select
end-xor			
end Aggregate			

---

## Card Status Inquiry Response <CardStatusInqRs>

Card Status Inquiry Response

See the matching request message [CardStatusInqRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			

begin-block		Optional	required if message is successful
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">CardStatusRec</a>	Aggregate	Optional Repeating	Card Status Record
end-block			
end Aggregate			

---

### Card Status Modify Request <CardStatusModRq>

Card Status Modify Request

See the matching response message [CardStatusModRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">CardKeys</a>	Aggregate	Required	Card Keys Aggregate
<a href="#">CardStatus</a>	Aggregate	Required	Card Status Aggregate
end Aggregate			

---

### Card Status Modify Response <CardStatusModRs>

Card Status Modify Response

See the matching request message [CardStatusModRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
end-block			
end Aggregate			

<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">CardStatusRec</a>	Aggregate	Required	Card Status Record
end-block			
end Aggregate			

---

### Card Status Record <CardStatusRec>

Card Status Record

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">CardId</a>	Identifier	Required	Card Identifier
<a href="#">CardStatus</a>	Aggregate	Required	Card Status Aggregate
end Aggregate			

---

### Card Sync Request <CardSyncRq>

Card Sync Request

See the matching response message [CardSyncRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
<a href="#">CardKeys</a>	Aggregate	Optional Repeating	Card Keys Aggregate



end Aggregate

---

## Card Sync Response <CardSyncRs>

Card Sync Response

See the matching request message [CardSyncRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">CardRsMsg</a>	Aggregate	Optional Repeating	Card Response Messages Aggregate
end-block			
end Aggregate			

---

## Card Technology <CardTechnology>

The type of card presented or inferred by the customer.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
MagStripeCard		N
ICCCard		N

## Card Transaction Limit <CardTrnLimit>

Provides information about transaction limits based on currency amount and/or number of occurrences of the transaction. These limits apply to transactions for this card only, but can apply to any type of card.

Extends: [AcctTrnLimit](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from AcctTrnLimit			
<a href="#">TrnType</a>	Aggregate	Required	Transaction Type
<a href="#">TrnSubType</a>	C-15	Optional	Transaction Sub-Type
<a href="#">AcctTrnUse</a>	Open Enum	Optional	Account Transaction Use Valid values include: All, Destination, Source
<a href="#">TrnSrc</a>	Open Enum	Optional Repeating	Transaction Source Valid values include: ACH, All, ATM, HomeBank, POS, Teller, VRU Default Value: All
<a href="#">LimitType</a>	Open Enum	Optional Repeating	Limit Type Valid values include: DailyMax, DailyMin, Max, Min, MonthlyMax, MonthlyMin, WeeklyMax, WeeklyMin Default Value: Max
begin-or		Required	
<a href="#">CurAmt</a>	Aggregate	Optional	Limit Amount
<a href="#">LimitCount</a>	Long	Optional	Limit Count
end-or			
end Elements from AcctTrnLimit			
begin Aggregate			
end Aggregate			

## Card Type <CardType>

The type of card.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Debit		Y
Credit		N
ATM		N
Multifunction		N
Identification		N
Prepaid		N
Loyalty		N

---

### Card Update Environment Aggregate <CardUpdateEnvr>

Card Update Environment Aggregate

Extends: [BaseEnvr](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseEnvr			
<a href="#">CreatedDt</a>	DateTime	Required	Created Date/Time. The date/time the object was created.
<a href="#">CreateRefIdent</a>	NC-36	Optional	An identifier used to uniquely identify the creation of this object to the system that created the object. This will usually be a link to reference information used in creating the object.
<a href="#">ClientCreateDt</a>	DateTime	Optional	The created date/time as reported by the client. This can vary from the object creation date/time due to time zone differences, communication delays, etc
<a href="#">ClientBusinessDt</a>	DateTime	Optional	The date/time that the client recorded this object for operational purposes. This date/time will often be used to manage the availability of information or funds.
<a href="#">LastUpdateDt</a>	DateTime	Optional	Last update Date/Time. The date/time the object was created or modified. This field is intended to support

			optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LastUpdateRqUID</a>	UUID	Optional	Last update RqUID. The RqUID from the message that resulted in th object being created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LoginName</a>	C-40	Optional	The login name (or Id) of the individual that authorized this object to be created. This is typically used when the object is created on behalf of its owner by someone who is not normally represented as a Party (i.e., an employee or agent).
<a href="#">PartyKeys</a>	Aggregate	Optional	Reference to the Party that this object is owned by or authorized by.
<a href="#">CardKeys</a>	Aggregate	Optional	This is dependent on Card proposal. Currently this is implemented as the CardLogicalData aggregate.
<a href="#">PassbkKeys</a>	Aggregate	Optional	Currently PassbkAcceptData.
<a href="#">NetworkTrnData</a>	Aggregate	Optional	Network Transaction Information. Identification and location of the terminal from which the message originates.
<a href="#">ServerTerminalSeqNum</a>	NC-36	Optional	Server Terminal Sequence Number. A terminal sequence number generated by the server to identify this object. This number is used in ATM and POS environments to uniquely identify transactions (with terminal name and date) for transaction management.
<a href="#">PointOfServiceData</a>	Aggregate	Optional	The Point of Service Data. This aggregate contains information about the environment in which this message originated.
<a href="#">ClientTerminalSeqNum</a>	NC-36	Optional	Client Terminal Sequence Number. A terminal sequence number generated by the client to identify this object. This number is used in ATM, POS, Branch, Call Center and Teller environments to uniquely identify transactions at the client (with terminal name and date). This number is often required when requesting supporting documentation related to a customer transaction.
end Elements from BaseEnvr			
begin Aggregate			
end Aggregate			

---

**Card Update Identifier <CardUpdateId>**

Card Update Identifier

Datatype: **Identifier**

---

**Card Update Info Aggregate <CardUpdateInfo>**

Card Update Info Aggregate

Datatype: **Abstract Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">CardRef</a>	Aggregate	Optional	Card Reference Aggregate
end Aggregate			

---

**Card Update Keys Aggregate <CardUpdateKeys>**

Card Update Keys Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
begin-xor		Required	
<a href="#">CardUpdateId</a>	Identifier	Required	Card Update Identifier
end-xor			
end Aggregate			

---

## Card Update Record <CardUpdateRec>

Card Update Record

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">CardUpdateId</a>	Identifier	Required	Card Update Identifier
<a href="#">CardUpdateInfo</a>	Abstract Aggregate	Required	Card Update Info Aggregate
<a href="#">CardUpdateEnvr</a>	Aggregate	Optional	
<a href="#">CardUpdateStatus</a>	Abstract Aggregate	Required	Card Update Status Aggregate
end Aggregate			

---

## Card Update Reference Aggregate <CardUpdateRef>

Card Update Reference Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">CardUpdateKeys</a>	Aggregate	Required	
<a href="#">CardUpdateRec</a>	Aggregate	Required	Card Update Record
<a href="#">CardUpdateInfo</a>	Abstract Aggregate	Required	Card Update Info Aggregate
end-xor			
end Aggregate			

---

## Card Update Response Header <CardUpdateRsHdr>

Card Update Response Header

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">CardUpdateRec</a>	Aggregate	Optional	Card Update Record
end Aggregate			

---

## Card Update Selection Aggregate <CardUpdateSel>

Card Update Selection Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required Repeating	
<a href="#">CardUpdateKeys</a>	Aggregate	Required	
end-xor			
end Aggregate			

---

## Card Update Status Aggregate <CardUpdateStatus>

Card Update Status Aggregate

Datatype: **Abstract Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">StatusDesc</a>	C-255	Optional	Status Description
<a href="#">EffDt</a>	DateTime	Optional	Effective Date Time

<a href="#">ApprovalIdent</a>	NC-36	Optional	Approval Identifier
<a href="#">StatusModBy</a>	Open Enum	Optional	Status Modified By
			Valid values include: BPP, BPPSR, BSP, BPSR, CPP, CPPSR, CSP, CSPSR, Customer, FI, PSP
end Aggregate			

---

### Card Update Status Code <CardUpdateStatusCode>

Card Update Status Code

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
Valid		N
Deleted		N

---

### Card Update Status Modify Request <CardUpdateStatusModRq>

Card Update Status Modify Request

See the matching response message [CardUpdateStatusModRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">CardUpdateKeys</a>	Aggregate	Required	
<a href="#">CardUpdateStatus</a>	Abstract Aggregate	Required	Card Update Status Aggregate
end Aggregate			



---

## Card Update Status Modify Response <CardUpdateStatusModRs>

Card Update Status Modify Response

See the matching request message [CardUpdateStatusModRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">CardUpdateStatusRec</a>	Aggregate	Required	
end-block			
end Aggregate			

---

## Card Update Status Record <CardUpdateStatusRec>

Card Update Status Record

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">CardUpdateId</a>	Identifier	Required	Card Update Identifier
<a href="#">CardUpdateStatus</a>	Abstract Aggregate	Required	Card Update Status Aggregate
end Aggregate			

---

**Card Validation <CardValidation>**

A card validation value used for functions such as emergency cash or activation.

Datatype: **C-20**

---

**Card Verify Type <CardVerifyType>**

Type of verification performed.

Datatype: **Open Enum**

**Enumerated Values**

Value	Description	Is default
Verified		N
Unverified		Y

---

**Card Verification Data <CardVrfyData>**

Card verification data. This field contains data printed on the card that is manually entered. This is data that cannot be automatically read from a card as it is used. This data is used to ensure the physical presence of the actual card.

Datatype: **NC-16**

---

**Carrier <Carrier>**

The standard abbreviation for the airline or railway carrier.

Datatype: **C-3**

---

### Case Sensitive Flag <CaseSen>

If set to *True*, indicates that the entry is case-sensitive.

Datatype: **Boolean**

---

### Cash Amount <CashAmt>

The cash denomination being deposited.

Extends: [CurAmt](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from CurAmt			
<a href="#">Amt</a>	Decimal	Optional	Amount.
<a href="#">CurCode</a>	Aggregate	Optional	Currency Code
end Elements from CurAmt			
begin Aggregate			
end Aggregate			

---

### Cash Quality <CashQuality>

Cash Quality. The quality of the cash being deposited.

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
Fit	The cash is in good condition.	N

Unfit || The cash is worn, soiled, torn or damaged in some way. || N ||

---

### Cash Serial Number <CashSerialNum>

Cash Serial Number. The serial number of the cash being deposited.

Datatype: **C-30**

---

### Cash Signature <CashSignature>

Cash Signature. The signature of the cash being deposited.

Extends: [Binary](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from Binary			
<a href="#">ContentType</a>	Open Enum	Optional	Specified in IETF RFC 2046.
<a href="#">BinLength</a>	Long	Required	Identifies the size of the binary data in number of bytes.
<a href="#">BinData</a>	Raw Binary Data	Required	Binary data.
end Elements from Binary			
begin Aggregate			
end Aggregate			

---

### Cash Validity <CashValidity>

The validity of the cash being deposited.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Genuine	All authentication tests on the cash have delivered positive results.	N
Counterfeit	The image and format of the cash are recognized but one or more authentication features (e.g. IR, UV, magnetism, security thread, etc.) are missing or clearly out of tolerance.	N
Suspect	The image, and format and authentication features (e.g. IR, UV, magnetism, security thread, etc.) of the cash are recognized but there are quality and/or tolerance deviations. In most cases the cash is unfit or soiled.	N

---

### Category <Category>

Category for a Payment. May be modified by the client.

Datatype: **C-40**

---

### Census Block <CensusBlock>

A Census Block is the smallest geographic entity for which census data is tabulated.

Datatype: **C-20**

---

### Census Tract <CensusTract>

A geographic region defined for the purpose of taking a census.

Datatype: **C-20**

---

### Certificate <Certificate>

Certificate used for authentication.

Extends: [Binary](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from Binary			
<a href="#">ContentType</a>	Open Enum	Optional	Specified in IETF RFC 2046.
<a href="#">BinLength</a>	Long	Required	Identifies the size of the binary data in number of bytes.
<a href="#">BinData</a>	Raw Binary Data	Required	Binary data.
end Elements from Binary			
begin Aggregate			
end Aggregate			

---

### Chargeback Amount <ChargebackAmt>

The amount of the original transaction to chargeback to the merchant

Extends: [CurAmt](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from CurAmt			
<a href="#">Amt</a>	Decimal	Optional	Amount.
<a href="#">CurCode</a>	Aggregate	Optional	Currency Code
end Elements from CurAmt			
begin Aggregate			
end Aggregate			

---

### Chargeback Date <ChargebackDt>

The date on which the charge back of the transaction was sent to the merchant

Datatype: **Date**

---

### Chargeback Edit Exclusion <ChargebackEditExcl>

Identifies the GCMS clearing system edits that the originator requests to be bypassed during clearing system processing.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">Brand</a>	Open Enum	Required	Card Brand <hr/> Valid values include: AmEx, CarteBancaire, Discover, JCB, MasterCard, PrivateLabel, VISA
<a href="#">ChargebackEditExclCode</a>	Open Enum	Required	Chargeback Edit Exclusion Code <hr/>
end Aggregate			

---

### Chargeback Edit Exclusion Code <ChargebackEditExclCode>

Identifies the GCMS clearing system edits that the originator requests to be bypassed during clearing system processing. The valid values are specified by the brand.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
-------	-------------	------------

---

### Chargeback Reason <ChargebackReason>

The reason to chargeback the original transaction to the merchant.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">Brand</a>	Open Enum	Required	Card Brand Valid values include: AmEx, CarteBancaire, Discover, JCB, MasterCard, PrivateLabel, VISA
<a href="#">ChargebackReasonCode</a>	Open Enum	Required	Chargeback Reason Code
end Aggregate			

---

### Chargeback Reason Code <ChargebackReasonCode>

The reason to chargeback the original transaction to the merchant. The valid values are specified by the brand.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
-------	-------------	------------

---

### Chargeback Text <ChargebackText>

The text to include in the chargeback transaction to send to the merchant.

Datatype: **C-50**

---

### Charge Regulation <ChargeRegulation>



Specify how the fee is distributed.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Payer	Payer pay for fee	N
Payee	Payee pay for fee	N
Share	Payer and payee share the fee equally	N

---

## Character Type <CharType>

Character Type.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
AlphaOnly	Only the capital and lower-case letters A-Z are permitted	N
NumericOnly	Only the digits 0-9 are permitted	N
AlphaOrNumeric	The capital and lower-case letters A-Z, or the digits 0-9, but not both, are permitted	N
AlphaAndNumeric	The capital and lower-case letters A-Z, the digits 0-9, or any combination thereof, are permitted	N
Special	Any ISO Latin-1 character is permitted.	N

---

## Checksum Field <ChecksumField>

The name of the field to which the checksum is being applied.  
Example: /PmtInfo/CurAmt.

Datatype: **lfxPath**

---

## Check Accept Request Message <ChkAcceptAddRq>

The Check Accept Add message is used to request payment for a check.

See the matching response message [ChkAcceptAddRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">ChkAcceptInfo</a>	Aggregate	Required	Check Accept Information Aggregate
end Aggregate			

---

## Check Accept Response Message <ChkAcceptAddRs>

Check Accept Add . Used to accept checks.

See the matching request message [ChkAcceptAddRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">ChkAcceptRec</a>	Aggregate	Required	Check Accept Record Aggregate
<a href="#">ChkAcceptStatusRec</a>	Aggregate	Required	Check Accept Status Record Aggregate
end-xor			
end-block			
end Aggregate			

---

## Check Accept Request Message <ChkAcceptAudRq>

See the matching response message [ChkAcceptAudRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
<a href="#">DtRange</a>	Aggregate	Optional	Date Range
<a href="#">Method</a>	Closed Enum	Optional Repeating	Method Valid values are limited to: Add, Advise, AuthMod, Can, Del, Mod, StatusMod
<a href="#">ChkAcceptKeys</a>	Aggregate	Optional Repeating	Check Accept Keys Aggregate
end Aggregate			

---

## Check Accept Response Message <ChkAcceptAudRs>

See the matching request message [ChkAcceptAudRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful

<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">ChkAcceptRsMsg</a>	Aggregate	Optional Repeating	Check AcceptResponse Message Record Aggregate
end-block			
end Aggregate			

---

### Check Accept Request Message <ChkAcceptCanRq>

See the matching response message [ChkAcceptCanRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">ChkAcceptKeys</a>	Aggregate	Required	Check Accept Keys Aggregate
end Aggregate			

---

### Check Accept Response Message <ChkAcceptCanRs>

See the matching request message [ChkAcceptCanRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	

<a href="#">ChkAcceptRec</a>	Aggregate	Required	Check Accept Record Aggregate
<a href="#">ChkAcceptStatusRec</a>	Aggregate	Required	Check Accept Status Record Aggregate
end-xor			
end-block			
end Aggregate			

## Check Accept Environment Aggregate <ChkAcceptEnvr>

Check Accept Environment Aggregate

Extends: [BaseEnvr](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseEnvr			
<a href="#">CreatedDt</a>	DateTime	Required	Created Date/Time. The date/time the object was created.
<a href="#">CreateRefIdent</a>	NC-36	Optional	An identifier used to uniquely identify the creation of this object to the system that created the object. This will usually be a link to reference information used in creating the object.
<a href="#">ClientCreateDt</a>	DateTime	Optional	The created date/time as reported by the client. This can vary from the object creation date/time due to time zone differences, communication delays, etc
<a href="#">ClientBusinessDt</a>	DateTime	Optional	The date/time that the client recorded this object for operational purposes. This date/time will often be used to manage the availability of information or funds.
<a href="#">LastUpdateDt</a>	DateTime	Optional	Last update Date/Time. The date/time the object was created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LastUpdateRqUID</a>	UUID	Optional	Last update RqUID. The RqUID from the message that resulted in the object being created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LoginName</a>	C-40	Optional	The login name (or Id) of the individual that authorized this object to be

			created. This is typically used when the object is created on behalf of its owner by someone who is not normally represented as a Party (i.e., an employee or agent).
<a href="#">PartyKeys</a>	Aggregate	Optional	Reference to the Party that this object is owned by or authorized by.
<a href="#">CardKeys</a>	Aggregate	Optional	This is dependent on Card proposal. Currently this is implemented as the CardLogicalData aggregate.
<a href="#">PassbkKeys</a>	Aggregate	Optional	Currently PassbkAcceptData.
<a href="#">NetworkTrnData</a>	Aggregate	Optional	Network Transaction Information. Identification and location of the terminal from which the message originates.
<a href="#">ServerTerminalSeqNum</a>	NC-36	Optional	Server Terminal Sequence Number. A terminal sequence number generated by the server to identify this object. This number is used in ATM and POS environments to uniquely identify transactions (with terminal name and date) for transaction management.
<a href="#">PointOfServiceData</a>	Aggregate	Optional	The Point of Service Data. This aggregate contains information about the environment in which this message originated.
<a href="#">ClientTerminalSeqNum</a>	NC-36	Optional	Client Terminal Sequence Number. A terminal sequence number generated by the client to identify this object. This number is used in ATM, POS, Branch, Call Center and Teller environments to uniquely identify transactions at the client (with terminal name and date). This number is often required when requesting supporting documentation related to a customer transaction.
end Elements from BaseEnvr			
begin Aggregate			
end Aggregate			

---

### Check Accept Identifier <ChkAcceptId>

Check Accept Identifier

Datatype: **Identifier**

---

## Check Accept Information Aggregate <ChkAcceptInfo>

Check Accept Information Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">ChkAcceptType</a>	Open Enum	Required	The type of the Check Accept transaction.  Defined Values:  ChkVerify, ChkGuarantee, ChkDeposit, ChkCash, ChkConvert, ChkVerifyConvert, ChkGuaranteeConvert, ChkPayment.
<a href="#">CompositeCurAmt</a>	Aggregate	Required Repeating	The amounts of the check transaction and appropriate fees.
<a href="#">CreditKeys</a>	Aggregate	Optional	Credit Keys Aggregate
<a href="#">SettleInd</a>	Boolean	Optional	Settle Indicator. Use by client to request the server treat the transaction as settled. Instead of creating a <CheckAcceptAuth> message this indicator can be used to accomplish the same concept. The server should consider setting the truncated indicator if the check is settled.
<a href="#">TruncatedInd</a>	Boolean	Optional	Truncated Check Indicator is returned from the server and indicates the check was truncated. False indicates the check is not truncated. ATM could use this indicator to place the truncated checks in a specific bin to isolate truncated checks for servicing.
<a href="#">CreditMediaChkData</a>	Aggregate	Required	Credit Media Check Information aggregate. This aggregate contains check details pertaining to the individual items in the deposit or cashed check.
end Aggregate			

---

## Check Accept Request Message <ChkAcceptInqRq>

See the matching response message [ChkAcceptInqRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">DocCtrlIn</a>	Aggregate	Optional	Document Control Input
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
begin-xor		Optional Repeating	
<a href="#">ChkAcceptSel</a>	Aggregate	Required	Check Accept Selection Aggregate
<a href="#">RecSelect</a>	lfxPath	Required	Record Select
end-xor			
end Aggregate			

---

### Check Accept Response Message <ChkAcceptInqRs>

See the matching request message [ChkAcceptInqRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">DocCtrlOut</a>	Aggregate	Optional	Document Control Output
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">ChkAcceptRec</a>	Aggregate	Required Repeating	Check Accept Record Aggregate
end-block			



end Aggregate

### Check Accept Keys Aggregate <ChkAcceptKeys>

Check Accept Keys Aggregate

Extends: [BaseKeys](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseKeys			
end Elements from BaseKeys			
begin Aggregate			
<a href="#">SvIdent</a>	Aggregate	Optional	Service Identifier
begin-xor		Required	
<a href="#">ChkAcceptId</a>	Identifier	Required	Check Accept Identifier
end-xor			
end Aggregate			

### Check Accept Request Message <ChkAcceptModRq>

See the matching response message [ChkAcceptModRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">ChkAcceptKeys</a>	Aggregate	Required	Check Accept Keys Aggregate
begin-block		Required Repeating	
<a href="#">ChkAcceptInfo</a>	Aggregate	Required	Check Accept Information Aggregate
		Optional	

begin-xor		Repeating	
<a href="#">DelElements</a>	lfxPath	Required	An lfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to delete. It is an error if one attempts to delete Required fields.
<a href="#">UpdElements</a>	lfxPath	Required	An lfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to update. The new value of the updated element is in the accompanying xxxInfo aggregate.
<a href="#">NewElements</a>	lfxPath	Required	An lfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to add. The new value of the new elements is in the accompanying xxxInfo aggregate.
end-xor			
end-block			
end Aggregate			

## Check Accept Response Message <ChkAcceptModRs>

See the matching request message [ChkAcceptModRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">ChkAcceptRec</a>	Aggregate	Required	Check Accept Record Aggregate
<a href="#">ChkAcceptStatusRec</a>	Aggregate	Required	Check Accept Status Record Aggregate
end-xor			
end-block			
end Aggregate			

---

## Check Accept Record Aggregate <ChkAcceptRec>

Check Accept Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">ChkAcceptId</a>	Identifier	Required	Check Accept Identifier
<a href="#">ChkAcceptInfo</a>	Aggregate	Required	Check Accept Information Aggregate
<a href="#">ChkAcceptEnvr</a>	Aggregate	Optional	Check Accept Environment Aggregate
<a href="#">ChkAcceptStatus</a>	Aggregate	Required	Check Accept Status Aggregate
end Aggregate			

---

## Check Accept Reference Aggregate <ChkAcceptRef>

Check Accept Reference Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">ChkAcceptKeys</a>	Aggregate	Required	Check Accept Keys Aggregate
<a href="#">ChkAcceptRec</a>	Aggregate	Required	Check Accept Record Aggregate
<a href="#">ChkAcceptInfo</a>	Aggregate	Required	Check Accept Information Aggregate
end-xor			
end Aggregate			

---

## Check Accept Request Message <ChkAcceptRevRq>

See the matching response message [ChkAcceptRevRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RevReasonCode</a>	Aggregate	Required	Reversal Reason Code
<a href="#">Desc</a>	C-80	Optional	Description
<a href="#">ChkAcceptRqMsg</a>	Aggregate	Required	Check Accept Request Message Record Aggregate
end Aggregate			

---

### Check Accept Response Message <ChkAcceptRevRs>

See the matching request message [ChkAcceptRevRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
end Aggregate			

---

### Check Accept Request Message Record Aggregate <ChkAcceptRqMsg>

Check Accept Request Message Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">ChkAcceptAddRq</a>	Aggregate	Required	Check Accept Add Request
<a href="#">ChkAcceptModRq</a>	Aggregate	Required	Check Accept Modify Request
<a href="#">ChkAcceptCanRq</a>	Aggregate	Required	Check Accept Cancel Request
<a href="#">ChkAcceptInqRq</a>	Aggregate	Required	Check Accept Inquiry Request
<a href="#">ChkAcceptAudRq</a>	Aggregate	Required	Check Accept Audit Request
<a href="#">ChkAcceptSyncRq</a>	Aggregate	Required	Check Accept Synchronization Request
<a href="#">ChkAcceptStatusModRq</a>	Aggregate	Required	Check Accept Status Modify Request
<a href="#">RevRqUID</a>	UUID	Required	Reversal Request Unique ID
end-xor			
end Aggregate			

### Check AcceptResponse Message Record Aggregate <ChkAcceptRsMsg>

Check AcceptResponse Message Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">MsgRecDt</a>	Timestamp	Optional	Audit Record Creation Date
begin-xor		Required	
<a href="#">ChkAcceptAddRs</a>	Aggregate	Required	Check Accept Add Response
<a href="#">ChkAcceptModRs</a>	Aggregate	Required	Check Accept Modify Response
<a href="#">ChkAcceptCanRs</a>	Aggregate	Required	Check Accept Cancel Response
<a href="#">ChkAcceptRevRs</a>	Aggregate	Required	Check Accept Reversal Response
<a href="#">ChkAcceptInqRs</a>	Aggregate	Required	Check Accept Inquiry Response
<a href="#">ChkAcceptStatusModRs</a>	Aggregate	Required	Check Accept Status Modify Response
end-xor			
end Aggregate			

---

### Check Accept Selection Aggregate <ChkAcceptSel>

Check Accept Selection Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required Repeating	
<a href="#">ChkAcceptKeys</a>	Aggregate	Required	Check Accept Keys Aggregate
end-xor			
end Aggregate			

---

### Check Accept Status Aggregate <ChkAcceptStatus>

Check Accept Status Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">ChkAcceptStatusCode</a>	Open Enum	Required	Check Accept Status Code Valid values include: Authorized, Deleted, Held, Posted, Rejected, Valid
<a href="#">StatusDesc</a>	C-255	Optional	Status Description
<a href="#">EffDt</a>	DateTime	Optional	Effective Date Time
<a href="#">StatusModBy</a>	Open Enum	Optional	Status Modified By Valid values include: BPP, BPPSR, BSP, BSPSR, CPP, CPPSR, CSP, CSPSR, Customer, FI, PSP
end Aggregate			

---

## Check Accept Status Code <ChkAcceptStatusCode>

Current Status of Check Accept object.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Authorized		N
Rejected		N
Posted		N
Held		N
Valid		N
Deleted		N

---

## Check Accept Request Message <ChkAcceptStatusModRq>

See the matching response message [ChkAcceptStatusModRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">ChkAcceptKeys</a>	Aggregate	Required	Check Accept Keys Aggregate
<a href="#">ChkAcceptStatus</a>	Aggregate	Required	Check Accept Status Aggregate
end Aggregate			

---

## Check Accept Response Message <ChkAcceptStatusModRs>

See the matching request message [ChkAcceptStatusModRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">ChkAcceptStatusRec</a>	Aggregate	Required	Check Accept Status Record Aggregate
end-block			
end Aggregate			

---

**Check Accept Status Record Aggregate <ChkAcceptStatusRec>**

Check Accept Status Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">ChkAcceptId</a>	Identifier	Required	Check Accept Identifier
<a href="#">ChkAcceptStatus</a>	Aggregate	Required	Check Accept Status Aggregate
end Aggregate			

---

**Check Accept Request Message <ChkAcceptSyncRq>**

See the matching response message [ChkAcceptSyncRs](#)

Datatype: **Aggregate**

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Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
<a href="#">ChkAcceptKeys</a>	Aggregate	Optional Repeating	Check Accept Keys Aggregate
end Aggregate			

---

### Check Accept Response Message <ChkAcceptSyncRs>

See the matching request message [ChkAcceptSyncRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">ChkAcceptRsMsg</a>	Aggregate	Optional Repeating	Check AcceptResponse Message Record Aggregate
end-block			
end Aggregate			

---

### The Type of Check accept Transaction <ChkAcceptType>

Datatype: **Open Enum**

## Enumerated Values

---

Value	Description	Is default
ChkVerify	Check verify	N
ChkGuarantee	Check guarantee	N
ChkDeposit	Check deposit where client is not attempting to determine type of authorization and leaving it to server to determine. Could be used for checks that cannot be verified cause say the institution does not support any verification	N
ChkCash	Check being cashed where client is not attempting to determine type of authorization and leaving it to server to determine.	N
ChkConvert	Convert check to electronic form	N
ChkVerifyConvert	Verify check and convert to electronic form.	N
ChkGuaranteeConvert	Guarantee check and convert to electronic form.	N
ChkPayment	Check payment where client is not attempting to determine type of authorization and leaving it to server to determine.	N

---

#### Checkbook Style Type <ChkBkStyleIdent>

Checkbook Style Type. The financial institution defines valid values. This field indicates the customer's choice.

Datatype: **Identifier**

---

#### Check Cleared date <ChkClrDt>

Check Cleared . The date when the check cleared the account on which it was drawn.

Datatype: **Date**

---

#### Check Courtesy Amount <ChkCourtesyAmt>

The amount read from the courtesy amount of the check being deposited.  
Extends: [CurAmt](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from CurAmt			
<a href="#">Amt</a>	Decimal	Optional	Amount.
<a href="#">CurCode</a>	Aggregate	Optional	Currency Code
end Elements from CurAmt			
begin Aggregate			
end Aggregate			

---

**Check Information <ChkData>**

Check information. Used when the payment is to be made by paper check. Contains all detail information to be appeared on the check. This can be used to support check outsourcing.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">ChkNum</a>	NC-12	Optional	Check number. Assigned by the Payer or CSP or CPP if payment is by paper check.
<a href="#">OrigDt</a>	Date	Optional	Check origination date. The date on which the check is originated.
<a href="#">CreditorData</a>	Aggregate	Optional	Creditor information to appear on check (name, etc.)
<a href="#">Memo</a>	C-255	Optional	Text description on the check.
end Aggregate			

---

**Check Detail <ChkDetail>**

This aggregate specifies the check detail.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">ManualMicr</a>	Boolean	Optional	ManualMicr. Use this to indicate the MICR has been keyed in manually. True indicates the MICR has been manually keyed.
<a href="#">Filldent</a>	NC-34	Optional	Bank Identifier. Qualifies account number if known by the customer/client. Usage is expected to be routing and transit number in the US or the equivalent in an international implementation. This is required in USA.
<a href="#">AcctIdent</a>	Aggregate	Optional	Account Identifier Aggregate
<a href="#">ProcessControl</a>	C-6	Optional	Process Control
<a href="#">ChkNum</a>	NC-12	Optional	Check number. Assigned by the Payer or CSP or CPP if payment is by paper check.
<a href="#">OrigDt</a>	Date	Optional	Check origination date. The date on which the check is originated.
<a href="#">Name</a>	C-40	Optional	Name of payer to appear on check (as originator). This can be Paying organization (Payer or Invoice Receiver) or check originator (CSP or CPP).
<a href="#">PostAddr</a>	Aggregate	Optional	Postal address of the Compositeany to appear on check (as originator). This can be Paying Compositeany (Payer or Invoice Receiver) or check originator (CSP or CPP) postal address.
<a href="#">OrgPhone</a>	Phone Number	Optional	Phone number of the organization to appear on check (as originator). This can be Paying organization (Payer or Invoice Receiver) or check originator (CSP or CPP) phone number.
<a href="#">Memo</a>	C-255	Optional	Text description on the check.
end Aggregate			

---

### Check Entered Amount <ChkEnteredAmt>

The amount the customer entered as the amount of this check being deposited.

Extends: [CurAmt](#)

Datatype: **Aggregate**

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Tag	Type	Usage	Description/Context notes
begin Elements from CurAmt			
<a href="#">Amt</a>	Decimal	Optional	Amount.
<a href="#">CurCode</a>	Aggregate	Optional	Currency Code
end Elements from CurAmt			
begin Aggregate			
end Aggregate			

---

### Check Image URL <ChkImageURL>

Location to obtain an image of the check.

Datatype: **URL**

---

### Check Image Back <ChkImgBack>

Check Image Back.

Extends: [Binary](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from Binary			
<a href="#">ContentType</a>	Open Enum	Optional	Specified in IETF RFC 2046.
<a href="#">BinLength</a>	Long	Required	Identifies the size of the binary data in number of bytes.
<a href="#">BinData</a>	Raw Binary Data	Required	Binary data.
end Elements from Binary			
begin Aggregate			
end Aggregate			

---

## Check Accept Image Data <ChkImgData>

This aggregate specifies the check image data.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">CryptType</a>	Open Enum	Required	Encryption Type.  Defined values: None, PKCS#1 , PKCS#7, PKCS#10, ECB, CBC, CFB, OFB, TECB, TCBC, TCBC-I, TCFB, TCFB-P, TOFB, TOFB-I, AECB, ACBC, ACFB, AOFB, ACM  Must be supported in list of encryption types in the SP's Service Profile.
<a href="#">SecObjId</a>	Identifier	Optional	Identifier of Security Object on which the <ChkImgFront> and <ChkImgBack> is encrypted.  Note: If security objects are managed in band, this element should be included in order to know how to decrypt <ChkImgFront> and <ChkImgBack>.
<a href="#">ChkImgFront</a>	Aggregate	Required	Front of check image. There must be agreement between two parties on the format of the image.
<a href="#">ChkImgBack</a>	Aggregate	Optional	Back of check image. There must be agreement between two parties on the format of the image.
end Aggregate			

---

## Check Image Front <ChkImgFront>

Check Image Front.

Extends: [Binary](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from Binary			
<a href="#">ContentType</a>	Open Enum	Optional	Specified in IETF RFC 2046.

<a href="#">BinLength</a>	Long	Required	Identifies the size of the binary data in number of bytes.
<a href="#">BinData</a>	Raw Binary Data	Required	Binary data.
end Elements from Binary			
begin Aggregate			
end Aggregate			

### Check Issue Request Message <ChkIssueAddRq>

Check Issue Add s Used to provide information associated with the positive pay service relating to check issue information.

See the matching response message [ChkIssueAddRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">ChkIssueInfo</a>	Aggregate	Required	Check Issue Information Aggregate
end Aggregate			

### Check Issue Response Message <ChkIssueAddRs>

Check Issue Add s Used to provide information associated with the positive pay service relating to check issue information.

See the matching request message [ChkIssueAddRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
	Aggregate		

<a href="#">Status</a>		Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">ChkIssueRec</a>	Aggregate	Required	Check Issue Record Aggregate
<a href="#">ChkIssueStatusRec</a>	Aggregate	Required	Check Issue Status Record Aggregate
end-xor			
end-block			
end Aggregate			

---

### Check Issue Request Message <ChkIssueAdviseRq>

A commercial customer originates a check issue add message to provide Positive Pay information to a financial institution.

If the information does not match when the check is presented the financial institution should modify status of the object to 'Rejected' and, if supported by the client, generate a <ChkIssueAdviseRq> to the commercial customer notifying them that the check was not honored. (The ChkIssueAcceptStatusRec is included in the AdviseRq.)

The customer then includes a ChkIssueStatusRec in the AdviseRs with the ChkIssueStatusCode set to 'Pay' or 'NoPay'.

See the matching response message [ChkIssueAdviseRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
begin-xor		Required	
<a href="#">ChkIssueRec</a>	Aggregate	Required	Check Issue Record Aggregate
<a href="#">ChkIssueStatusRec</a>	Aggregate	Required	Check Issue Status Record Aggregate
end-xor			
end Aggregate			



---

## Check Issue Response Message <ChkIssueAdviseRs>

When responding to a ChkIssueAdviseRq the commercial customer includes a ChkIssueRec or ChkIssueStatusRec with the ChkIssueStatusCode set to 'Pay' or 'NoPay'. If set to 'Pay' the FI should honor the check

See the matching request message [ChkIssueAdviseRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">ChkIssueRec</a>	Aggregate	Required	Check Issue Record Aggregate
<a href="#">ChkIssueStatusRec</a>	Aggregate	Required	Check Issue Status Record Aggregate
end-xor			
end-block			
end Aggregate			

---

## Check Issue Request Message <ChkIssueAudRq>

See the matching response message [ChkIssueAudRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier

<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
<a href="#">DtRange</a>	Aggregate	Optional	Date Range
<a href="#">Method</a>	Closed Enum	Optional Repeating	Method  Valid values are limited to: Add, Advise, AuthMod, Can, Del, Mod, StatusMod
<a href="#">ChkIssueKeys</a>	Aggregate	Optional Repeating	Check Issue Keys Aggregate
end Aggregate			

---

### Check Issue Response Message <ChkIssueAudRs>

See the matching request message [ChkIssueAudRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">ChkIssueRsMsg</a>	Aggregate	Optional Repeating	Check IssueResponse Message Record Aggregate
end-block			
end Aggregate			

---

### Check Issue Request Message <ChkIssueDelRq>

See the matching response message [ChkIssueDelRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">ChkIssueKeys</a>	Aggregate	Required	Check Issue Keys Aggregate
end Aggregate			

---

**Check Issue Response Message <ChkIssueDelRs>**

See the matching request message [ChkIssueDelRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">ChkIssueRec</a>	Aggregate	Required	Check Issue Record Aggregate
<a href="#">ChkIssueStatusRec</a>	Aggregate	Required	Check Issue Status Record Aggregate
end-xor			
end-block			
end Aggregate			

---

**Check Issue Environment Aggregate <ChkIssueEnvr>**

Check Issue Environment Aggregate

Extends: [BaseEnvr](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseEnvr			
<a href="#">CreatedDt</a>	DateTime	Required	Created Date/Time. The date/time the object was created.
<a href="#">CreateRefIdent</a>	NC-36	Optional	An identifier used to uniquely identify the creation of this object to the system that created the object. This will usually be a link to reference information used in creating the object.
<a href="#">ClientCreateDt</a>	DateTime	Optional	The created date/time as reported by the client. This can vary from the object creation date/time due to time zone differences, communication delays, etc
<a href="#">ClientBusinessDt</a>	DateTime	Optional	The date/time that the client recorded this object for operational purposes. This date/time will often be used to manage the availability of information or funds.
<a href="#">LastUpdateDt</a>	DateTime	Optional	Last update Date/Time. The date/time the object was created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LastUpdateRqUID</a>	UUID	Optional	Last update RqUID. The RqUID from the message that resulted in th object being created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LoginName</a>	C-40	Optional	The login name (or Id) of the individual that authorized this object to be created. This is typically used when the object is created on behalf of its owner by someone who is not normally represented as a Party (i.e., an employee or agent).
<a href="#">PartyKeys</a>	Aggregate	Optional	Reference to the Party that this object is owned by or authorized by.
<a href="#">CardKeys</a>	Aggregate	Optional	This is dependent on Card proposal. Currently this is implemented as the CardLogicalData aggregate.
<a href="#">PassbkKeys</a>	Aggregate	Optional	Currently PassbkAcceptData.
<a href="#">NetworkTrnData</a>	Aggregate	Optional	Network Transaction Information. Identification and location of the terminal from which the message originates.
<a href="#">ServerTerminalSeqNum</a>	NC-36	Optional	Server Terminal Sequence Number. A terminal sequence number generated

			by the server to identify this object. This number is used in ATM and POS environments to uniquely identify transactions (with terminal name and date) for transaction management.
<a href="#">PointOfServiceData</a>	Aggregate	Optional	The Point of Service Data. This aggregate contains information about the environment in which this message originated.
<a href="#">ClientTerminalSeqNum</a>	NC-36	Optional	Client Terminal Sequence Number. A terminal sequence number generated by the client to identify this object. This number is used in ATM, POS, Branch, Call Center and Teller environments to uniquely identify transactions at the client (with terminal name and date). This number is often required when requesting supporting documentation related to a customer transaction.
end Elements from BaseEnvr			
begin Aggregate			
end Aggregate			

---

### Check Issue Identifier <ChkIssued>

Check Issue Identifier

Datatype: **Identifier**

---

### Check Issue Identifier <ChkIssuident>

Check Issue . Typically a combination of the deposit account ID and the check number.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">ChkNum</a>	NC-12	Optional	Check number. Assigned by the Payer or CSP or CPP if payment is by paper

			check.
<a href="#">OrigDt</a>	Date	Optional	Check origination date. The date on which the check is originated.
<a href="#">AcctIdent</a>	Aggregate	Optional	Account Identifier Aggregate
end Aggregate			

---

### Check Issue Information Aggregate <ChkIssueInfo>

Check Issue Information Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">AcctKeys</a>	Aggregate	Required	Deposit Account Identification Aggregate.
<a href="#">EffDt</a>	DateTime	Optional	Effective Date. The date associated with the origination of the Check Issue file.
<a href="#">RefData</a>	Aggregate	Optional Repeating	Additional Reference information to uniquely identify the bank.  Defined values for contained <RefType>: CountrySpecific, BankSpecific
<a href="#">ChkData</a>	Aggregate	Optional	Check information.
<a href="#">CurAmt</a>	Aggregate	Required	Currency Amount. Check currency amount
<a href="#">DueDt</a>	Date	Optional	Check Due Date. The date on which the check is due to pay.
<a href="#">PaidDt</a>	Date	Optional	Check Origination Date. The date on which the customer originates the check.
<a href="#">ImageURL</a>	URL	Optional	URL address for retrieving an image of the Compositelete bill encoded as HTML. This may be cached by the client for later display, or it may be viewed live directly from the Web.
end Aggregate			

---

### Check Issue Request Message <ChkIssueInqRq>

See the matching response message [ChkIssueInqRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">DocCtrlIn</a>	Aggregate	Optional	Document Control Input
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
begin-xor		Optional Repeating	
<a href="#">ChkIssueSel</a>	Aggregate	Required	Check Issue Selection Aggregate
<a href="#">RecSelect</a>	IfxPath	Required	Record Select
end-xor			
end Aggregate			

---

### Check Issue Response Message <ChkIssueInqRs>

See the matching request message [ChkIssueInqRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">DocCtrlOut</a>	Aggregate	Optional	Document Control Output
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">ChkIssueRec</a>	Aggregate	Required Repeating	Check Issue Record Aggregate
end-block			

end Aggregate
---------------

---

### Check Issue Keys Aggregate <ChkIssueKeys>

Check Issue Keys Aggregate

Extends: [BaseKeys](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseKeys			
end Elements from BaseKeys			
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
begin-xor		Required	
<a href="#">ChkIssueld</a>	Identifier	Required	Check Issue Identifier
end-xor			
end Aggregate			

---

### Check Issue Request Message <ChkIssueModRq>

Check Issue Modify s

See the matching response message [ChkIssueModRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">ChkIssueKeys</a>	Aggregate	Required	Check Issue Keys Aggregate
begin-block		Required Repeating	
<a href="#">ChkIssueInfo</a>	Aggregate	Required	Check Issue Information Aggregate



begin-xor		Optional Repeating	
<a href="#">DelElements</a>	lfxPath	Required	An lfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to delete. It is an error if one attempts to delete Required fields.
<a href="#">UpdElements</a>	lfxPath	Required	An lfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to update. The new value of the updated element is in the accompanying xxxInfo aggregate.
<a href="#">NewElements</a>	lfxPath	Required	An lfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to add. The new value of the new elements is in the accompanying xxxInfo aggregate.
end-xor			
end-block			
end Aggregate			

---

### Check Issue Response Message <ChkIssueModRs>

Check Issue Modify s

See the matching request message [ChkIssueModRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">ChkIssueRec</a>	Aggregate	Required	Check Issue Record Aggregate
<a href="#">ChkIssueStatusRec</a>	Aggregate	Required	Check Issue Status Record Aggregate
end-xor			
end-block			

end Aggregate

---

### Check Issue Record Aggregate <ChkIssueRec>

Check Issue Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">ChkIssueId</a>	Identifier	Required	Check Issue Identifier
<a href="#">ChkIssueInfo</a>	Aggregate	Required	Check Issue Information Aggregate
<a href="#">ChkIssueEnvr</a>	Aggregate	Optional	Check Issue Environment Aggregate
<a href="#">ChkIssueStatus</a>	Aggregate	Required	Check Issue Status Aggregate
end Aggregate			

---

### Check Issue Reference Aggregate <ChkIssueRef>

Check Issue Reference Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">ChkIssueKeys</a>	Aggregate	Required	Check Issue Keys Aggregate
<a href="#">ChkIssueRec</a>	Aggregate	Required	Check Issue Record Aggregate
<a href="#">ChkIssueInfo</a>	Aggregate	Required	Check Issue Information Aggregate
end-xor			
end Aggregate			

---

## Check IssueResponse Message Record Aggregate <ChkIssueRsMsg>

Check IssueResponse Message Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">MsgRecDt</a>	Timestamp	Optional	Audit Record Creation Date
begin-xor		Required	
<a href="#">ChkIssueAddRs</a>	Aggregate	Required	Check Issue Add Response
<a href="#">ChkIssueModRs</a>	Aggregate	Required	Check Issue Modification Request
<a href="#">ChkIssueDelRs</a>	Aggregate	Required	Check Issue Delete Response
<a href="#">ChkIssueInqRs</a>	Aggregate	Required	Check Issue Inquiry Response
<a href="#">ChkIssueAdviseRs</a>	Aggregate	Required	Check Issue Advise Response
<a href="#">ChkIssueStatusModRs</a>	Aggregate	Required	Check Issue Status Modification Response
end-xor			
end Aggregate			

---

## Check Issue Selection Aggregate <ChkIssueSel>

Check Issue Selection Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required Repeating	
<a href="#">ChkIssueKeys</a>	Aggregate	Required	Check Issue Keys Aggregate
end-xor			
end Aggregate			

---

## Check Issue Status Aggregate <ChkIssueStatus>

Check Issue Status Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">ChkIssueStatusCode</a>	Open Enum	Required	Check Issue Status Code  Valid values include: NoPay, Paid, Pay, Pending, Rejected
<a href="#">StatusDesc</a>	C-255	Optional	Status Description
<a href="#">EffDt</a>	DateTime	Optional	Effective Date Time
<a href="#">StatusModBy</a>	Open Enum	Optional	Status Modified By  Valid values include: BPP, BPPSR, BSP, BPSR, CPP, CPPSR, CSP, CSPSR, Customer, FI, PSP
end Aggregate			

---

## Check Issue Status Code <ChkIssueStatusCode>

Check Issue Status Code.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Pending	The check has not been presented at the FI or the FI's backend system has not processed the check.	N
Paid	The FI has paid the funds to the presenter of the check.	N
Rejected	The FI has rejected payment of funds to presenter based on data contained in the ChkIssueAddRq or ChkIssueModRq.	N
Pay	The customer is requesting the FI to pay the check as it was presented to the FI.	N
NoPay	The customer is requesting the FI not to pay the check as it was presented to the FI.	N

---

## Check Issue Request Message <ChkIssueStatusModRq>

Check Issue Status Modify s

See the matching response message [ChkIssueStatusModRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">ChkIssueKeys</a>	Aggregate	Required	Check Issue Keys Aggregate
<a href="#">ChkIssueStatus</a>	Aggregate	Required	Check Issue Status Aggregate
end Aggregate			

---

## Check Issue Response Message <ChkIssueStatusModRs>

Check Issue Status Modify s

See the matching request message [ChkIssueStatusModRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">ChkIssueStatusRec</a>	Aggregate	Required	Check Issue Status Record Aggregate
end-block			
end Aggregate			

---

### Check Issue Status Record Aggregate <ChkIssueStatusRec>

Check Issue Status Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">ChkIssueId</a>	Identifier	Required	Check Issue Identifier
<a href="#">ChkIssueStatus</a>	Aggregate	Required	Check Issue Status Aggregate
end Aggregate			

---

### Check Issue Request Message <ChkIssueSyncRq>

See the matching response message [ChkIssueSyncRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
<a href="#">ChkIssueKeys</a>	Aggregate	Optional Repeating	Check Issue Keys Aggregate
end Aggregate			

---

### Check Issue Response Message <ChkIssueSyncRs>

See the matching request message [ChkIssueSyncRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">ChkIssueRsMsg</a>	Aggregate	Optional Repeating	Check IssueResponse Message Record Aggregate
end-block			
end Aggregate			

---

**Check Number <ChkNum>**

Check Number. The serial number uniquely identifying the check or document.  
In Pay Service, it is the number assigned by the Pay provider or the CPP if payment is by paper check.

Datatype: **NC-12**

---

**Selection High Check Number <ChkNumEnd>**

Selection High Check Number.

Datatype: **NC-12**

---

**Check Number Prefix <ChkNumPrefix>**

Check Number Prefix. Two characters printed immediately before the check number.

Datatype: **C-2**

---

### Check Number Range <ChkNumRange>

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-or		Required	
<a href="#">ChkNumStart</a>	NC-12	Required	Selection Low Check Number.
<a href="#">ChkNumEnd</a>	NC-12	Required	Selection High Check Number.
end-or			
end Aggregate			

---

### Selection Low Check Number <ChkNumStart>

Selection Low Check Number.

Datatype: **NC-12**

---

### Check Number Suffix <ChkNumSuffix>

Check Number Suffix. Two characters printed immediately after the check number.

Datatype: **C-2**



---

## Check Order Request Message <ChkOrdAddRq>

The client sends a <ChkOrdAddRq> to place a new check order..

**Note:** The customer must determine the supported values for <Count> and <ChkBkStyleId> through an out-of-band process.

See the matching response message [ChkOrdAddRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">ChkOrdInfo</a>	Aggregate	Required	Check Order Information Aggregate
<a href="#">RecurChkOrdKeys</a>	Aggregate	Optional	Recurring Check Order Keys Aggregate
end Aggregate			

---

## Check Order Response Message <ChkOrdAddRs>

Check Order Add . Allows for a customer to place an order for more checks.

See the matching request message [ChkOrdAddRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	

<a href="#">ChkOrdRec</a>	Aggregate	Required	Check Order Record Aggregate
<a href="#">ChkOrdStatusRec</a>	Aggregate	Required	Check Order Status Record Aggregate
end-xor			
end-block			
end Aggregate			

---

### Check Order Request Message <ChkOrdAdviseRq>

See the matching response message [ChkOrdAdviseRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
begin-xor		Required	
<a href="#">ChkOrdRec</a>	Aggregate	Required	Check Order Record Aggregate
<a href="#">ChkOrdStatusRec</a>	Aggregate	Required	Check Order Status Record Aggregate
end-xor			
end Aggregate			

---

### Check Order Response Message <ChkOrdAdviseRs>

See the matching request message [ChkOrdAdviseRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
	Aggregate		

<a href="#">MsgRsHdr</a>		Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">ChkOrdRec</a>	Aggregate	Required	Check Order Record Aggregate
<a href="#">ChkOrdStatusRec</a>	Aggregate	Required	Check Order Status Record Aggregate
end-xor			
end-block			
end Aggregate			

---

### Check Order Request Message <ChkOrdAudRq>

Check Order Audit Request message audits a previously added check order record.

See the matching response message [ChkOrdAudRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
<a href="#">DtRange</a>	Aggregate	Optional	Date Range
<a href="#">Method</a>	Closed Enum	Optional Repeating	Method <hr/> Valid values are limited to: Add, Advise, AuthMod, Can, Del, Mod, StatusMod
<a href="#">ChkOrdKeys</a>	Aggregate	Optional Repeating	Check Order Keys Aggregate
end Aggregate			

---

### Check Order Response Message <ChkOrdAudRs>

Check Order Audit . Allows for a customer to audit a check order.

See the matching request message [ChkOrdAudRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">ChkOrdRsMsg</a>	Aggregate	Optional Repeating	Check OrderResponse Message Record Aggregate
end-block			
end Aggregate			

---

### Check Order Delete Request <ChkOrdDelRq>

Check Order Delete Request

See the matching response message [ChkOrdDelRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">ChkOrdKeys</a>	Aggregate	Required	Check Order Keys Aggregate
end Aggregate			

---

### Check Order Delete Response <ChkOrdDelRs>

Check Order Delete Response

See the matching request message [ChkOrdDelRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">ChkOrdRec</a>	Aggregate	Required	Check Order Record Aggregate
<a href="#">ChkOrdStatusRec</a>	Aggregate	Required	Check Order Status Record Aggregate
end-xor			
end-block			
end Aggregate			

---

### Check Order Environment Aggregate <ChkOrdEnvr>

Check Order Environment Aggregate

Extends: [BaseEnvr](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseEnvr			
<a href="#">CreatedDt</a>	DateTime	Required	Created Date/Time. The date/time the object was created.
<a href="#">CreateRefIdent</a>	NC-36	Optional	An identifier used to uniquely identify the creation of this object to the system that created the object. This will usually be a link to reference information used in creating the object.
<a href="#">ClientCreatedDt</a>	DateTime	Optional	The created date/time as reported by the client. This can vary from the object creation date/time due to time zone differences, communication delays, etc

<a href="#">ClientBusinessDt</a>	DateTime	Optional	The date/time that the client recorded this object for operational purposes. This date/time will often be used to manage the availability of information or funds.
<a href="#">LastUpdateDt</a>	DateTime	Optional	Last update Date/Time. The date/time the object was created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LastUpdateRqUID</a>	UUID	Optional	Last update RqUID. The RqUID from the message that resulted in the object being created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LoginName</a>	C-40	Optional	The login name (or Id) of the individual that authorized this object to be created. This is typically used when the object is created on behalf of its owner by someone who is not normally represented as a Party (i.e., an employee or agent).
<a href="#">PartyKeys</a>	Aggregate	Optional	Reference to the Party that this object is owned by or authorized by.
<a href="#">CardKeys</a>	Aggregate	Optional	This is dependent on Card proposal. Currently this is implemented as the CardLogicalData aggregate.
<a href="#">PassbkKeys</a>	Aggregate	Optional	Currently PassbkAcceptData.
<a href="#">NetworkTrnData</a>	Aggregate	Optional	Network Transaction Information. Identification and location of the terminal from which the message originates.
<a href="#">ServerTerminalSeqNum</a>	NC-36	Optional	Server Terminal Sequence Number. A terminal sequence number generated by the server to identify this object. This number is used in ATM and POS environments to uniquely identify transactions (with terminal name and date) for transaction management.
<a href="#">PointOfServiceData</a>	Aggregate	Optional	The Point of Service Data. This aggregate contains information about the environment in which this message originated.
<a href="#">ClientTerminalSeqNum</a>	NC-36	Optional	Client Terminal Sequence Number. A terminal sequence number generated by the client to identify this object. This number is used in ATM, POS, Branch, Call Center and Teller environments to uniquely identify transactions at the client (with terminal name and date). This number is often required when requesting supporting documentation related to a customer transaction.

end Elements from BaseEnvr
begin Aggregate
end Aggregate

---

### Check Order Identifier <ChkOrdId>

Check Order Identifier

Datatype: **Identifier**

---

### Check Order Information Aggregate <ChkOrdInfo>

Check Order Information Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">AcctKeys</a>	Aggregate	Optional	Account Keys Aggregate
<a href="#">PartyData</a>	Abstract Aggregate	Required	<b>Valid Aggregates are:</b> Party Data OrgData PersonData
<a href="#">RecurChkOrdKeys</a>	Aggregate	Optional	This is a reference to a RecurChkOrd model object if this instance was created from a recurring model.
<a href="#">DeliveryInstruction</a>	Aggregate	Optional	Specifies information pertaining to the delivery of checks.
<a href="#">ChkPrint</a>	Aggregate	Required	Check Print
<a href="#">ChkText</a>	C-80	Optional	Check Text
<a href="#">ChkNumStart</a>	NC-12	Optional	Selection Low Check Number
<a href="#">ChkNumPrefix</a>	C-2	Optional	Check Number Prefix
<a href="#">ChkNumSuffix</a>	C-2	Optional	Check Number Suffix
<a href="#">ChkBkStyleIdent</a>	Identifier	Optional	Checkbook Style Type
<a href="#">BillingMethod</a>	Closed Enum	Optional	Billing Method <hr/> Valid values are limited to: CheckPrinter,

			Customer, Institution
<a href="#">CoverMngm</a>	C-3	Optional Repeating	Cover Monogram
<a href="#">CoverStyleIdent</a>	NC-36	Optional Repeating	Cover Style
<a href="#">ArtWorkIdent</a>	NC-36	Optional Repeating	Art Work Identifier
<a href="#">IncEndrsmntStmp</a>	Boolean	Optional	Include Endorsement Stamp
<a href="#">FontIdent</a>	NC-36	Optional	Font Type
<a href="#">OvrSigText</a>	C-40	Optional Repeating	Over Signature Text
<a href="#">IncSecSigLine</a>	Boolean	Optional	Include Secondary Signature Line
<a href="#">ClubAcctIdent</a>	NC-36	Optional	Club Account Identifier
<a href="#">VoucherTypeIdent</a>	NC-36	Optional	Voucher Code
<a href="#">Count</a>	Long	Optional	Count
end Aggregate			

### Check Order Request Message <ChkOrdInqRq>

Check Order Inquiry Request message retrieves check order records based on selection criteria provided.

See the matching response message [ChkOrdInqRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">DocCtrlIn</a>	Aggregate	Optional	Document Control Input
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
begin-xor		Optional Repeating	
<a href="#">ChkOrdSel</a>	Aggregate	Required	Check Order Selection Aggregate
<a href="#">RecSelect</a>	lfxPath	Required	Record Select
end-xor			



end Aggregate

---

### Check Order Response Message <ChkOrdInqRs>

Check Order Inquiry. Allows for a customer to inquiry on check orders.

See the matching request message [ChkOrdInqRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">DocCtrlOut</a>	Aggregate	Optional	Document Control Output
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">ChkOrdRec</a>	Aggregate	Required Repeating	Check Order Record Aggregate
end-block			
end Aggregate			

---

### Check Order Keys Aggregate <ChkOrdKeys>

Check Order Keys Aggregate

Extends: [BaseKeys](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseKeys			
end Elements from BaseKeys			
begin Aggregate			

<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
begin-xor		Required	
<a href="#">ChkOrdId</a>	Identifier	Required	Check Order Identifier
end-xor			
end Aggregate			

### Check Order Request Message <ChkOrdModRq>

Check Order Modification Request message modifies a previously added check order record.

See the matching response message [ChkOrdModRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">ChkOrdKeys</a>	Aggregate	Required	Check Order Keys Aggregate
begin-block		Required Repeating	
<a href="#">ChkOrdInfo</a>	Aggregate	Required	Check Order Information Aggregate
begin-xor		Required Repeating	
<a href="#">DelElements</a>	IfxPath	Required	An IfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to delete. It is an error if one attempts to delete Required fields.
<a href="#">UpdElements</a>	IfxPath	Required	An IfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to update. The new value of the updated element is in the accompanying xxxInfo aggregate.
<a href="#">NewElements</a>	IfxPath	Required	An IfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to add. The new value of the new elements is in the accompanying xxxInfo aggregate.
end-xor			
end-block			

end Aggregate
---------------

---

### Check Order Response Message <ChkOrdModRs>

Check Order Modification. Allows for a customer to modify a previously added check order.

See the matching request message [ChkOrdModRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">ChkOrdRec</a>	Aggregate	Required	Check Order Record Aggregate
<a href="#">ChkOrdStatusRec</a>	Aggregate	Required	Check Order Status Record Aggregate
end-xor			
end-block			
end Aggregate			

---

### Check Order Record Aggregate <ChkOrdRec>

Check Order Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">ChkOrdId</a>	Identifier	Required	Check Order Identifier
end Aggregate			

<a href="#">ChkOrdInfo</a>	Aggregate	Required	Check Order Information Aggregate
<a href="#">ChkOrdEnvr</a>	Aggregate	Optional	Check Order Environment Aggregate
<a href="#">ChkOrdStatus</a>	Aggregate	Required	Check Order Status Aggregate
end Aggregate			

---

### Check Order Reference Aggregate <ChkOrdRef>

Check Order Reference Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">ChkOrdKeys</a>	Aggregate	Required	Check Order Keys Aggregate
<a href="#">ChkOrdRec</a>	Aggregate	Required	Check Order Record Aggregate
<a href="#">ChkOrdInfo</a>	Aggregate	Required	Check Order Information Aggregate
end-xor			
end Aggregate			

---

### Check Order Request Message <ChkOrdRevRq>

See the matching response message [ChkOrdRevRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RevReasonCode</a>	Aggregate	Required	Reversal Reason Code
<a href="#">Desc</a>	C-80	Optional	Description

<a href="#">ChkOrdRqMsg</a>	Aggregate	Required	Check Order Request Message Record Aggregate
end Aggregate			

## Check Order Response Message <ChkOrdRevRs>

See the matching request message [ChkOrdRevRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
end Aggregate			

## Check Order Request Message Record Aggregate <ChkOrdRqMsg>

Check Order Request Message Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">ChkOrdAddRq</a>	Aggregate	Required	Check Order Add Request
<a href="#">ChkOrdModRq</a>	Aggregate	Required	Check Order Modify Request
<a href="#">ChkOrdDelRq</a>	Aggregate	Required	
<a href="#">ChkOrdInqRq</a>	Aggregate	Required	Check Order Inquiry Request
<a href="#">ChkOrdAdviseRq</a>	Aggregate	Required	Check Order Advise Request
<a href="#">ChkOrdAudRq</a>	Aggregate	Required	Check Order Audit Request
<a href="#">ChkOrdSyncRq</a>	Aggregate	Required	Check Order Synchronization Request

<a href="#">RevRqUID</a>	UUID	Required	Reversal Request Unique ID
end-xor			
end Aggregate			

---

### Check OrderResponse Message Record Aggregate <ChkOrdRsMsg>

Check OrderResponse Message Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">MsgRecDt</a>	Timestamp	Optional	Audit Record Creation Date
begin-xor		Required	
<a href="#">ChkOrdAddRs</a>	Aggregate	Required	Check Order Add Response
<a href="#">ChkOrdModRs</a>	Aggregate	Required	Check Order Modify Response
<a href="#">ChkOrdDelRs</a>	Aggregate	Required	
<a href="#">ChkOrdRevRs</a>	Aggregate	Required	Check Order Reversal Response
<a href="#">ChkOrdInqRs</a>	Aggregate	Required	Check Order Inquiry Response
<a href="#">ChkOrdAdviseRs</a>	Aggregate	Required	Check Order Advise Response
end-xor			
end Aggregate			

---

### Check Order Selection Aggregate <ChkOrdSel>

Check Order Selection Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required Repeating	
	Aggregate		

<a href="#">ChkOrdKeys</a>		Required	Check Order Keys Aggregate
begin-block		Required	
<a href="#">PartyKeys</a>	Aggregate	Optional	Party Keys Aggregate
<a href="#">AcctKeys</a>	Aggregate	Optional	Account Keys Aggregate
<a href="#">RecurChkOrdKeys</a>	Aggregate	Optional	Recurring Check Order Keys Aggregate
<a href="#">DtRange</a>	Aggregate	Optional	Date Range
end-block			
end-xor			
end Aggregate			

---

### Check Order Status Aggregate <ChkOrdStatus>

Check Order Status Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">ChkOrdStatusCode</a>	Open Enum	Required	Check Order Status Code  Valid values include: Accepted, Cancelled, Deleted, Held, Pending, Processed, Rejected, Sent, Valid
<a href="#">StatusDesc</a>	C-255	Optional	Status Description
<a href="#">EffDt</a>	DateTime	Optional	Effective Date Time
<a href="#">ApprovalIdent</a>	NC-36	Optional	Approval Identifier
<a href="#">StatusModBy</a>	Open Enum	Optional	Status Modified By  Valid values include: BPP, BPPSR, BSP, BPSR, CPP, CPPSR, CSP, CSPSR, Customer, FI, PSP
<a href="#">ResolvePendingDt</a>	Date	Optional	Resolve Pending Date
<a href="#">StatusReason</a>	C-80	Optional	Status Reason
end Aggregate			

---

## Check Order Status Code <ChkOrdStatusCode>

Check Order Status Code

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Pending	The order has been received but has not yet been validated and therefore is awaiting acceptance.	N
Accepted	The order has been accepted for processing.	N
Processed	The order has been processed.	N
Sent	The fulfillment center has sent the checks	N
Rejected	The order was rejected.	N
Cancelled	The order was cancelled.	N
Held	order was held	N
Valid		N
Deleted		N

---

## Check Order Status Record Aggregate <ChkOrdStatusRec>

Check Order Status Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">ChkOrdId</a>	Identifier	Required	Check Order Identifier
<a href="#">ChkOrdStatus</a>	Aggregate	Required	Check Order Status Aggregate
end Aggregate			

---

## Check Order Request Message <ChkOrdSyncRq>

Check Order Synchronization Request message synchronizes the client with the server.



See the matching response message [ChkOrdSyncRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
<a href="#">ChkOrdKeys</a>	Aggregate	Optional Repeating	Check Order Keys Aggregate
end Aggregate			

---

### Check Order Response Message <ChkOrdSyncRs>

Check Order Synchronization. Allows for a customer to synchronize a check order.

See the matching request message [ChkOrdSyncRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">ChkOrdRsMsg</a>	Aggregate	Optional Repeating	Check OrderResponse Message Record Aggregate
end-block			
end Aggregate			

---

## Check Print <ChkPrint>

Check Print . Describes the customer information to be printed on checks.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">OrgName</a>	Aggregate	Required Repeating	Customer Name Aggregate.
<a href="#">PersonName</a>	Aggregate	Required Repeating	Person Name Aggregate.
end-xor			
<a href="#">PostAddr</a>	Aggregate	Required	Customer Address Aggregate.
<a href="#">Phone</a>	Phone Number	Optional	Telephone Number. Provided if it is to be printed on checks.
<a href="#">Desc</a>	C-80	Optional	Additional Information to be printed on checks.
end Aggregate			

---

## Checksum Request Message <ChksumAddRq>

The Checksum Add message allows a client to provide a checksum record against which the server can verify scheduled payments, where the control data such as sum amount and count are provided to the server. The Checksum Add message can be sent together with, or separate from, the payment messages within a pay service to facilitate both cases where the control record is sent via the same or different routes due to authorization and segregation reasons.

This control record will be tightly linked to the payment requests within the Pay Service Transaction wrapper.message or control total record ties to the payment file <PaySvcRq>

See the matching response message [ChksumAddRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
	UUID		

<a href="#">RqUID</a>		Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">ChksumInfo</a>	Aggregate	Required	Checksum Information Aggregate
end Aggregate			

---

### Checksum Response Message <ChksumAddRs>

Response to Check Sum Add request

See the matching request message [ChksumAddRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">ChksumRec</a>	Aggregate	Required	Checksum Record Aggregate
<a href="#">ChksumStatusRec</a>	Aggregate	Required	Checksum Status Record Aggregate
end-xor			
end-block			
end Aggregate			

---

### Checksum Request Message <ChksumAdviseRq>

ChksumAdvise message is used to advise an entity of the processing status of a batch of transactions. This message would subsequently be sent in response to the ChksumAdd message set.

See the matching response message [ChksumAdviseRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
begin-xor		Required	
<a href="#">ChksumRec</a>	Aggregate	Required	Checksum Record Aggregate
<a href="#">ChksumStatusRec</a>	Aggregate	Required	Checksum Status Record Aggregate
end-xor			
end Aggregate			

---

**Checksum Response Message <ChksumAdviseRs>**

Response to Checksum Advise Request

See the matching request message [ChksumAdviseRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">ChksumRec</a>	Aggregate	Required	Checksum Record Aggregate
<a href="#">ChksumStatusRec</a>	Aggregate	Required	Checksum Status Record Aggregate
end-xor			
end-block			
end Aggregate			

---

## Checksum Request Message <ChksumAudRq>

See the matching response message [ChksumAudRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
<a href="#">DtRange</a>	Aggregate	Optional	Date Range
<a href="#">Method</a>	Closed Enum	Optional Repeating	Method  Valid values are limited to: Add, Advise, AuthMod, Can, Del, Mod, StatusMod
<a href="#">ChksumKeys</a>	Aggregate	Optional Repeating	Checksum Keys Aggregate
end Aggregate			

---

## Checksum Response Message <ChksumAudRs>

See the matching request message [ChksumAudRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">ChksumRsMsg</a>	Aggregate	Optional Repeating	ChecksumResponse Message Record Aggregate

end-block
end Aggregate

### Checksum Data <ChksumData>

Checks Sum data. Define different types of check sum and values for verification of control check sum totals with file transactions. Example: transaction amount sum, account Id sum or bank Id sum (foreign payment transactions).

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">ChksumType</a>	Open Enum	Required	Check Sum Type identifier Valid values include: Hash, Mod, Sum
<a href="#">ChecksumField</a>	IfxPath	Optional	Checksum Field
<a href="#">ChksumValue</a>	Decimal	Required	Value of checksum type <ChksumType>.
<a href="#">MsgGroupReference</a>	C-36	Optional	When MsgGroupReference is present the Chksum is the sum of all values of the type indicated for the field indicated in all messages whose MsgGroupReference in previous message headers matches this value. This is commonly a batch number reference.
end Aggregate			

### Checksum Request Message <ChksumDelRq>

See the matching response message [ChksumDelRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header

<a href="#">ChksumKeys</a>	Aggregate	Required	Checksum Keys Aggregate
end Aggregate			

---

## Checksum Response Message <ChksumDelRs>

See the matching request message [ChksumDelRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">ChksumRec</a>	Aggregate	Required	Checksum Record Aggregate
<a href="#">ChksumStatusRec</a>	Aggregate	Required	Checksum Status Record Aggregate
end-xor			
end-block			
end Aggregate			

---

## Checksum Environment Aggregate <ChksumEnvr>

Checksum Environment Aggregate

Extends: [BaseEnvr](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseEnvr			
<a href="#">CreatedDt</a>	DateTime	Required	Created Date/Time. The date/time the object was created.

<a href="#">CreateRefIdent</a>	NC-36	Optional	An identifier used to uniquely identify the creation of this object to the system that created the object. This will usually be a link to reference information used in creating the object.
<a href="#">ClientCreateDt</a>	DateTime	Optional	The created date/time as reported by the client. This can vary from the object creation date/time due to time zone differences, communication delays, etc
<a href="#">ClientBusinessDt</a>	DateTime	Optional	The date/time that the client recorded this object for operational purposes. This date/time will often be used to manage the availability of information or funds.
<a href="#">LastUpdateDt</a>	DateTime	Optional	Last update Date/Time. The date/time the object was created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LastUpdateRqUID</a>	UUID	Optional	Last update RqUID. The RqUID from the message that resulted in the object being created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LoginName</a>	C-40	Optional	The login name (or Id) of the individual that authorized this object to be created. This is typically used when the object is created on behalf of its owner by someone who is not normally represented as a Party (i.e., an employee or agent).
<a href="#">PartyKeys</a>	Aggregate	Optional	Reference to the Party that this object is owned by or authorized by.
<a href="#">CardKeys</a>	Aggregate	Optional	This is dependent on Card proposal. Currently this is implemented as the CardLogicalData aggregate.
<a href="#">PassbkKeys</a>	Aggregate	Optional	Currently PassbkAcceptData.
<a href="#">NetworkTrnData</a>	Aggregate	Optional	Network Transaction Information. Identification and location of the terminal from which the message originates.
<a href="#">ServerTerminalSeqNum</a>	NC-36	Optional	Server Terminal Sequence Number. A terminal sequence number generated by the server to identify this object. This number is used in ATM and POS environments to uniquely identify transactions (with terminal name and date) for transaction management.
<a href="#">PointOfServiceData</a>	Aggregate	Optional	The Point of Service Data. This aggregate contains information about the environment in which this



			message originated.
<a href="#">ClientTerminalSeqNum</a>	NC-36	Optional	Client Terminal Sequence Number. A terminal sequence number generated by the client to identify this object. This number is used in ATM, POS, Branch, Call Center and Teller environments to uniquely identify transactions at the client (with terminal name and date). This number is often required when requesting supporting documentation related to a customer transaction.
end Elements from BaseEnvr			
begin Aggregate			
end Aggregate			

---

### Checksum Identifier <ChksumId>

Checksum Identifier

Datatype: **Identifier**

---

### Checksum Information Aggregate <ChksumInfo>

Checksum Information Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RefData</a>	Aggregate	Optional	Payment transaction reference Identifier number. Identifier for the payment file generated by the client.
<a href="#">MsgType</a>	Open Enum	Required	Checksum Message Type. Message type of transaction being calculated for the checksum.  Defined values: All IFX Add and Mod Messages.  Example: PmtAddRq, RemitAddRq, etc.

<a href="#">Count</a>	Long	Required	Transaction count. This count indicates how many request messages should be contained in the document.
<a href="#">ChksumData</a>	Aggregate	Optional Repeating	Checksum data. Define different types of Checksum and values for verification of control Checksum totals with file transactions. Example: transaction amount sum, account Id sum or bank Id sum (foreign payment transactions).
end Aggregate			

---

### Checksum Request Message <ChksumInqRq>

See the matching response message [ChksumInqRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">DocCtrlIn</a>	Aggregate	Optional	Document Control Input
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
begin-xor		Optional Repeating	
<a href="#">ChksumSel</a>	Aggregate	Required	Checksum Selection Aggregate
<a href="#">RecSelect</a>	lfxPath	Required	Record Select
end-xor			
end Aggregate			

---

### Checksum Response Message <ChksumInqRs>

See the matching request message [ChksumInqRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">DocCtrlOut</a>	Aggregate	Optional	Document Control Output
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">ChksumRec</a>	Aggregate	Required Repeating	Checksum Record Aggregate
end-block			
end Aggregate			

---

### Checksum Keys Aggregate <ChksumKeys>

Checksum Keys Aggregate

Extends: [BaseKeys](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseKeys			
end Elements from BaseKeys			
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
begin-xor		Required	
<a href="#">ChksumId</a>	Identifier	Required	Checksum Identifier
end-xor			
end Aggregate			

---

### Checksum Request Message <ChksumModRq>

See the matching response message [ChksumModRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">ChksumKeys</a>	Aggregate	Required	Checksum Keys Aggregate
begin-block		Required Repeating	
<a href="#">ChksumInfo</a>	Aggregate	Required	Checksum Information Aggregate
begin-xor		Optional Repeating	
<a href="#">DelElements</a>	lfxPath	Required	An lfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to delete. It is an error if one attempts to delete Required fields.
<a href="#">UpdElements</a>	lfxPath	Required	An lfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to update. The new value of the updated element is in the accompanying xxxInfo aggregate.
<a href="#">NewElements</a>	lfxPath	Required	An lfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to add. The new value of the new elements is in the accompanying xxxInfo aggregate.
end-xor			
end-block			
end Aggregate			

---

### Checksum Response Message <ChksumModRs>

See the matching request message [ChksumModRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			

begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">ChksumRec</a>	Aggregate	Required	Checksum Record Aggregate
<a href="#">ChksumStatusRec</a>	Aggregate	Required	Checksum Status Record Aggregate
end-xor			
end-block			
end Aggregate			

---

### Checksum Record Aggregate <ChksumRec>

Checksum Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">ChksumId</a>	Identifier	Required	Checksum Identifier
<a href="#">ChksumInfo</a>	Aggregate	Required	Checksum Information Aggregate
<a href="#">ChksumEnvr</a>	Aggregate	Optional	Checksum Environment Aggregate
<a href="#">ChksumStatus</a>	Aggregate	Required	Checksum Status Aggregate
end Aggregate			

---

### Checksum Reference Aggregate <ChksumRef>

Checksum Reference Aggregate

Datatype: **Aggregate**

--	--	--	--

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">ChksumKeys</a>	Aggregate	Required	Checksum Keys Aggregate
<a href="#">ChksumRec</a>	Aggregate	Required	Checksum Record Aggregate
<a href="#">ChksumInfo</a>	Aggregate	Required	Checksum Information Aggregate
end-xor			
end Aggregate			

---

### ChecksumResponse Message Record Aggregate <ChksumRsMsg>

ChecksumResponse Message Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">MsgRecDt</a>	Timestamp	Optional	Audit Record Creation Date
begin-xor		Required	
<a href="#">ChksumAddRs</a>	Aggregate	Required	Check Sum Add Response
<a href="#">ChksumModRs</a>	Aggregate	Required	Checksum Modify Response
<a href="#">ChksumDelRs</a>	Aggregate	Required	Checksum Delete Response
<a href="#">ChksumInqRs</a>	Aggregate	Required	Checksum Inquiry Response
<a href="#">ChksumAdviseRs</a>	Aggregate	Required	Checksum Advise Response
<a href="#">ChksumStatusModRs</a>	Aggregate	Required	Checksum Status Modify Response
end-xor			
end Aggregate			

---

### Checksum Selection Aggregate <ChksumSel>

Checksum Selection Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required Repeating	
<a href="#">ChksumKeys</a>	Aggregate	Required	Checksum Keys Aggregate
end-xor			
end Aggregate			

---

### Checksum Status Aggregate <ChksumStatus>

Checksum Status Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">ChksumStatusCode</a>	Open Enum	Required	ChkSum Control Status Code Valid values include: Deleted, DelPend, Pending, Posted, Refused, Rejected, Returned, Valid
<a href="#">StatusDesc</a>	C-255	Optional	Status Description
<a href="#">EffDt</a>	DateTime	Optional	Effective Date Time
<a href="#">StatusModBy</a>	Open Enum	Optional	Status Modified By Valid values include: BPP, BPPSR, BSP, BPSR, CPP, CPPSR, CSP, CSPSR, Customer, FI, PSP
<a href="#">Memo</a>	C-255	Optional	Memo
end Aggregate			

---

### Checksum Status Code <ChksumStatusCode>

ChkSum Control Status Code. This identifies the check sum status.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Pending	service request is pending	N
Posted	service request is posted	N
Refused	service request is refused	N
Rejected	service request is rejected	N
Returned	service request is returned	N
DelPend	service request is delete pending	N
Deleted	service request is deleted	N
Valid		N

---

### Checksum Request Message <ChksumStatusModRq>

See the matching response message [ChksumStatusModRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">ChksumKeys</a>	Aggregate	Required	Checksum Keys Aggregate
<a href="#">ChksumStatus</a>	Aggregate	Required	Checksum Status Aggregate
end Aggregate			

---

### Checksum Response Message <ChksumStatusModRs>

See the matching request message [ChksumStatusModRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			



begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">ChksumStatusRec</a>	Aggregate	Required	Checksum Status Record Aggregate
end-block			
end Aggregate			

---

### Checksum Status Record Aggregate <ChksumStatusRec>

Checksum Status Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">ChksumId</a>	Identifier	Required	Checksum Identifier
<a href="#">ChksumStatus</a>	Aggregate	Required	Checksum Status Aggregate
end Aggregate			

---

### Checksum Request Message <ChksumSyncRq>

See the matching response message [ChksumSyncRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header

<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
<a href="#">ChksumKeys</a>	Aggregate	Optional Repeating	Checksum Keys Aggregate
end Aggregate			

---

## Checksum Response Message <ChksumSyncRs>

See the matching request message [ChksumSyncRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">ChksumRsMsg</a>	Aggregate	Optional Repeating	ChecksumResponse Message Record Aggregate
end-block			
end Aggregate			

---

## Check Sum Type identifier <ChksumType>

Check Sum type identifier.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Sum	sum amount of all payment transaction of the service request, without currency implication.	N
Hash	hash amount of all payment transaction of the service request.	N

Mod		N
-----	--	---

---

**Checksum Value <ChksumValue>**

Value of checksum type <ChksumType>.

Example: if used for the sum, contains the total amount of all payment transactions of the file, without currency implication. Thus it contains the total of all <CurAmt>s in all <RemitInfo>s of the associated <PaySvcRq>, reflecting all payment items in the file.

Datatype: **Decimal**

---

**Check Text <ChkText>**

Freeform Check Text

Datatype: **C-80**

---

**Circumstance <Circumstance>**

Circumstance code related to the loss.

Datatype: **C-20**

---

**City <City>**

City.

Datatype: **C-32**

---

**CLABE <CLABE>**

Account number standard used in Mexico. Value must contain numeric characters only.

Datatype: **C-18**

---

**Clearing Language Code <ClearingLangCode>**

Language code used for some elements depending on the clearing system. This should not be used if the specific transport implementation allows for tag level language code specification (e.g. XML implementation).

Extends: [CountryCode](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from CountryCode			
<a href="#">CountryCodeSource</a>	Open Enum	Optional	Country Code Source  Valid values include: FIPS-10, ISO3166-Alpha-2, ISO3166-Alpha-3, ISO3166-Numeric, ITU-E.164, STANAG-1059  Default Value: ISO3166-Alpha-3
<a href="#">CountryCodeValue</a>	Open Enum	Required	Country Code Value
end Elements from CountryCode			
begin Aggregate			
end Aggregate			

---

**Client Application <ClientApp>**

The primary use of the <ClientApp> aggregate is to inform a customer

service representative about what software was used to create or change an object. <ClientApp> conveys the application that is acting as the client endpoint of the IFX message. This may be an application on the customer's PC if it is aware of Interactive Financial Exchange, or it may be an intermediate server that is composing IFX requests on behalf of a client that has connected to it using some other protocol (e.g., HTTP).

Extended By: [ProxyClient](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">Org</a>	Identifier	Required	Organization. This identifies the client application manufacturer.
<a href="#">Name</a>	C-40	Required	Client Application Name.
<a href="#">Version</a>	NC-12	Required	Client Application Version.
end Aggregate			

---

### Client Business Date <ClientBusinessDt>

The date/time that the client recorded this object for operational purposes. This date/time will often be used to manage the availability of information or funds.

Datatype: **DateTime**

---

### Client Change Code <ClientChgCode>

This indicates the reason why a Credit or Debit was for a different amount from the original authorization.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
None	None	N

ConsumerCancelled	The customer cancelled the request.	N
TerminalExceptionAmountKnown	A terminal/device error occurred during the transaction that meant it could not be fulfilled. The exact amount dispensed or deposited is known.	N
TerminalExceptionAmountUnknown	A terminal/device error occurred during the transaction that meant it could not be fulfilled. The exact amount dispensed or deposited is unknown.	N
ConsumerExceptionAmountKnown	The customer caused an exception (may have walked away), the exact amount dispensed or deposited is known.	N
ConsumerExceptionAmountUnknown	The customer caused an exception (may have walked away), the exact amount dispensed or deposited is unknown.	N
PurchaseAdjustment	The amount was changed to reflect an adjustment to the price or quantity of goods or services purchased.	N
ConsumerDeclined	The Consumer declined the transaction.	N
ConsumerTimeout		N
IccExceptionAmountKnown	A chip card error or veto occurred during the transaction that meant that it could not be fulfilled. The amount that was fulfilled is known.	N

---

#### Client Create Date <ClientCreateDt>

The created date/time as reported by the client. This can vary from the object creation date/time due to time zone differences, communication delays, etc.

Datatype: **DateTime**

---

#### Client DateTime <ClientDt>

Time according to the client.

**Note:** *This is typically used by customer service to resolve problems regarding cut-off time or timeliness of customer messages. It may be compared with the server time to determine whether there is a discrepancy.*

Datatype: **DateTime**

---

**Client Sequence Number <ClientTerminalSeqNum>**

A sequence identifier generated by the client terminal in a Branch/CallCenter/Teller environment

Datatype: **NC-36**

---

**Closed Date <ClosedDt>**

Indicates the date the account closed

Datatype: **Date**

---

**Close Date <CloseDt>**

Close Date

Datatype: **Date**

---

**Close Reason <CloseReason>**

Indicates reason for closing object.

Datatype: **C-80**

---

**Club Account Identifier <ClubAcctIdent>**

Identifier for bank club program discounts or special promotions.

Datatype: **NC-36**

---

**Collateral Description. <CollateralDesc>**

Collateral Description.

Datatype: **C-80**

---

**Collating Sequence <CollatingSequence>**

The sequence in which pages are delivered. This element is useful when the document will be post processed by a document processor or printer.

Datatype: **Open Enum**

**Enumerated Values**

Value	Description	Is default
Normal		Y
Reverse		N
Odd		N
Even		N

---

**Commodity Category <CommodityCategory>**

Provides the identifier assigned by the card acceptor that best categorizes the items being purchased in a standardized commodity group.



Datatype: **C-15**

---

**Communication Method <CommunicationMethod>**

Communication Method. Indicates the preferred method of physically handicapped customer communication.

Datatype: **Open Enum**

**Enumerated Values**

Value	Description	Is default
ASL		N
BRL	Braille	N
TDD		N

---

**Completed Payment Count <CompletedPmtCount>**

Number of payments completed.

Datatype: **Long**

---

**Composite Currency Amount <CompositeCurAmt>**

A Composite Currency Amount aggregate (either <CompositeCurAmt> or <TotalCompositeCurAmt) contains information about the amount and timing of float availability of funds for a single transaction. This aggregate is also used (usually repeating) where a currency amount identified in a message consists of multiple composites, e.g. a debit message which identifies both the customer requested debit amount plus one or more fees to be debited. The composite currency amount aggregate can also be used within a <DebitAdd> or <ChkAcceptAdd> to charge a fee (e.g. for a printed statement). The <CompositeCurAmtId> is used to identify a specific component of a currency amount in communications between client and server (e.g. to override a specific Fee component). The

<TotalCompositeCurAmt> aggregate has the same structure as the <CompositeCurAmt> aggregate, and is used for clarity when the amount specified is a total amount in a transaction where either total amounts or partial amounts may both be used.

Extended By: [TotalCompositeCurAmt](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">CompositeCurAmtIdent</a>	NC-36	Optional	Composite Currency Amount Id. Required if the aggregate is repeating within a debit or credit message.
<a href="#">CompositeCurAmtType</a>	Open Enum	Required	Composite Currency Amount Type. Description of Float Category or Currency Amount Type. Defined Values: Immediate, 1DayFloat, 2DayFloat, 3DayFloat, 4DayFloat, 5DayFloat, 6DayFloat, OnePlusDay, TwoPlusDay, ThreePlusDay, Standard, Debit, Credit, ForExFee, StopChkFee, LateFee, TransactionFee, InterchangeFee, Surcharge, StatementFee, Tax, MerchandisePurchase, MerchandiseReturn, CheckFee, PmtEnclosed, CashBack, CreditHeld, Bonus, Freight, PurchaseltemTotal.
begin-or		Required	
begin-block		Required	
<a href="#">CurAmt</a>	Aggregate	Required	Currency Amount. When used for float, the fractional amount of the transaction amount assigned to this float category. When used for a fixed amount fee, this is the fixed amount that will be charged. For fees that are calculated as a fixed amount plus a percentage of the transaction, this is the fixed amount and the percentage is in Rate.
<a href="#">ExchangeRate</a>	Aggregate	Optional	Exchange Rate
end-block			
<a href="#">Rate</a>	Decimal	Required	Fee Rate. Usage is a percentage (e.g. a value of 2.5 = 2.5%).
end-or			
<a href="#">MinCurAmt</a>	Aggregate	Optional	Minimum Currency Amount. The minimum amount to charge for this fee.
<a href="#">MaxCurAmt</a>	Aggregate	Optional	Maximum Currency Amount. The maximum amount to charge for this fee.
<a href="#">SpecialHandling</a>	Open Enum	Optional	Special Handling requests.  Defined Values: ClientOverride

<a href="#">Memo</a>	C-255	Optional	Memo. Additional information about the transaction (e.g. reason for modifying the fees)
end Aggregate			

---

### Composite Currency Amount Id <CompositeCurAmtIdent>

Required if the aggregate is repeating within a debit or credit message.

Datatype: **NC-36**

---

### Composite Currency Amount Type <CompositeCurAmtType>

Description of Float Category or Currency Amount Type

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Immediate	Immediate.	N
1DayFloat	One day float of available funds.	N
2DayFloat	Two day float of available funds.	N
3DayFloat	Three day float of available funds.	N
4DayFloat	Four day float of available funds.	N
5DayFloat	Five day float of available funds.	N
6DayFloat	Six day float of available funds.	N
OnePlusDay	One day forward available balance.	N
TwoPlusDay	Two day forward available balance.	N
ThreePlusDay	Three day forward available balance.	N
Debit	The amount to debit in a transaction.	N
Credit	The amount to credit in a transaction.	N
CheckFee	Check fee.	N
ForExFee	Foreign exchange fee.	N
StopChkFee	Stop check fee.	N
LateFee	Late charge fee.	N
TransactionFee	Transaction fee.	N
OverdraftFee	Overdraft Fee	N

OverlimitFee	Overlimit Fee	N
InterchangeFee	Interchange fee.	N
Surcharge	Surcharge fee.	N
StatementFee	A fee for printing a statement.	N
Tax	Tax associated with this transaction.	N
MerchandisePurchase	Merchandise Purchase.	N
PmtEnclosed	Payment enclosed	N
CashBack	The "cash back" amount in the transaction.	N
CreditHeld	The amount of the deposit that was held (not included in the Available Balance).	N
Bonus		N
Freight		N
PurchaseItemTotal		N

---

**Composite Payment Remittance Acknowledgement Information**  
**<CompositePmtRemitInfo>**

Information about the status of payment credit transactions.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin	Aggregate		
end	Aggregate		

---

**Compound Indicator <CompoundInd>**

Indicates if interest is compounded.

Datatype: **Boolean**

---

**Comprehensible Remittance Statement Request Message**  
**<CompRemitStmtAddRq>**

## Comprehensible Remittance Statement Add Request

See the matching response message [CompRemitStmntAddRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">CompRemitStmntInfo</a>	Aggregate	Required	Comprehensible Remittance Statement Information Aggregate
end Aggregate			

---

## Comprehensible Remittance Statement Response Message <CompRemitStmntAddRs>

Comprehensible Remittance Statement Add Request

See the matching request message [CompRemitStmntAddRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">CompRemitStmntRec</a>	Aggregate	Required	Comprehensible Remittance Statement Record Aggregate
<a href="#">CompRemitStmntStatusRec</a>	Aggregate	Required	Comprehensible Remittance Statement Status Record Aggregate
end-xor			
end-block			

end Aggregate

### Comprehensible Remittance Statement Request Message <CompRemitStmtAudRq>

A customer originates a Comprehensible Remittance Statement audit request to obtain all changes related to a particular comprehensible remittance addition by the FI.

See the matching response message [CompRemitStmtAudRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
<a href="#">DtRange</a>	Aggregate	Optional	Date Range
<a href="#">Method</a>	Closed Enum	Optional Repeating	Method Valid values are limited to: Add, Advise, AuthMod, Can, Del, Mod, StatusMod
<a href="#">CompRemitStmtKeys</a>	Aggregate	Optional Repeating	Comprehensible Remittance Statement Keys Aggregate
end Aggregate			

### Comprehensible Remittance Statement Response Message <CompRemitStmtAudRs>

Comprehensible Remittance Statement Audit Response

See the matching request message [CompRemitStmtAudRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	

<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">CompRemitStmtRsMsg</a>	Aggregate	Optional Repeating	Comprehensible Remittance StatementResponse Message Record Aggregate
end-block			
end Aggregate			

### Comprehensible Remittance Statement Environment Aggregate <CompRemitStmtEnvr>

Comprehensible Remittance Statement Environment Aggregate

Extends: [BaseEnvr](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseEnvr			
<a href="#">CreatedDt</a>	DateTime	Required	Created Date/Time. The date/time the object was created.
<a href="#">CreateRefIdent</a>	NC-36	Optional	An identifier used to uniquely identify the creation of this object to the system that created the object. This will usually be a link to reference information used in creating the object.
<a href="#">ClientCreateDt</a>	DateTime	Optional	The created date/time as reported by the client. This can vary from the object creation date/time due to time zone differences, communication delays, etc
<a href="#">ClientBusinessDt</a>	DateTime	Optional	The date/time that the client recorded this object for operational purposes. This date/time will often be used to manage the availability of information or funds.
<a href="#">LastUpdateDt</a>	DateTime	Optional	Last update Date/Time. The date/time the object was created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).

<a href="#">LastUpdateRqUID</a>	UUID	Optional	Last update RqUID. The RqUID from the message that resulted in th object being created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LoginName</a>	C-40	Optional	The login name (or Id) of the individual that authorized this object to be created. This is typically used when the object is created on behalf of its owner by someone who is not normally represented as a Party (i.e., an employee or agent).
<a href="#">PartyKeys</a>	Aggregate	Optional	Reference to the Party that this object is owned by or authorized by.
<a href="#">CardKeys</a>	Aggregate	Optional	This is dependent on Card proposal. Currently this is implemented as the CardLogicalData aggregate.
<a href="#">PassbkKeys</a>	Aggregate	Optional	Currently PassbkAcceptData.
<a href="#">NetworkTrnData</a>	Aggregate	Optional	Network Transaction Information. Identification and location of the terminal from which the message originates.
<a href="#">ServerTerminalSeqNum</a>	NC-36	Optional	Server Terminal Sequence Number. A terminal sequence number generated by the server to identify this object. This number is used in ATM and POS environments to uniquely identify transactions (with terminal name and date) for transaction management.
<a href="#">PointOfServiceData</a>	Aggregate	Optional	The Point of Service Data. This aggregate contains information about the environment in which this message originated.
<a href="#">ClientTerminalSeqNum</a>	NC-36	Optional	Client Terminal Sequence Number. A terminal sequence number generated by the client to identify this object. This number is used in ATM, POS, Branch, Call Center and Teller environments to uniquely identify transactions at the client (with terminal name and date). This number is often required when requesting supporting documentation related to a customer transaction.
end Elements from BaseEnvr			
begin Aggregate			
end Aggregate			



## Comprehensible Remittance Statement Identifier <CompRemitStmId>

Comprehensible Remittance Statement Identifier

Datatype: **Identifier**

---

## Comprehensible Remittance Statement Information Aggregate <CompRemitStmInfo>

Comprehensible Remittance Statement Information Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Optional	
<a href="#">LockboxDepldent</a>	Aggregate	Required	Lockbox Deposit Identifier. A unique identifier assigned to a specific lockbox where deposits are collected.
<a href="#">AcctRef</a>	Aggregate	Required	Deposit Account Id Aggregate. Deposit account for remittanc etransactions.
end-xor			
<a href="#">CurAmt</a>	Aggregate	Required	Currency Amount. Total amount of the remittance deposit cycle.
<a href="#">Count</a>	Long	Optional	Count. Total number of batches processed in the remittance cycle.
<a href="#">RefData</a>	Aggregate	Optional	Reference information associated with remittance deposit information.
<a href="#">PrcDt</a>	Date	Required	Processing Date. The date the remittance payments were processed by the financial institution.
<a href="#">RemitBatchData</a>	Aggregate	Optional Repeating	Batch Information Aggregate. One or more batches may be processed within a remittance deposit.
<a href="#">LockboxURL</a>	URL	Optional	Lockbox URL. URL containing lockbox remittance information.
end Aggregate			

---

## Comprehensible Remittance Statement Request Message <CompRemitStmntInqRq>

The Comprehensible Remittance Statement Inquiry message allows a customer to inquiry about remittance information on a specific lockbox or deposit account.

See the matching response message [CompRemitStmntInqRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">DocCtrlIn</a>	Aggregate	Optional	Document Control Input
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
begin-xor		Optional Repeating	
<a href="#">CompRemitStmntSel</a>	Aggregate	Required	Comprehensible Remittance Statement Selection Aggregate
<a href="#">RecSelect</a>	IfxPath	Required	Record Select
end-xor			
end Aggregate			

---

## Comprehensible Remittance Statement Response Message <CompRemitStmntInqRs>

See the matching request message [CompRemitStmntInqRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			

begin-block		Optional	required if message is successful
<a href="#">DocCtrlOut</a>	Aggregate	Optional	Document Control Output
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">CompRemitStmtRec</a>	Aggregate	Required Repeating	Comprehensible Remittance Statement Record Aggregate
end-block			
end Aggregate			

---

### Comprehensible Remittance Statement Keys Aggregate <CompRemitStmtKeys>

Comprehensible Remittance Statement Keys Aggregate

Extends: [BaseKeys](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseKeys			
end Elements from BaseKeys			
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
begin-xor		Required	
<a href="#">CompRemitStmtd</a>	Identifier	Required	Comprehensible Remittance Statement Identifier
end-xor			
end Aggregate			

---

### Comprehensible Remittance Statement Record Aggregate <CompRemitStmtRec>

Comprehensible Remittance Statement Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			

<a href="#">Svcldent</a>	Aggregate	Optional	Service Identifier
<a href="#">CompRemitStmtd</a>	Identifier	Required	Comprehensible Remittance Statement Identifier
<a href="#">CompRemitStmtInfo</a>	Aggregate	Required	Comprehensible Remittance Statement Information Aggregate
<a href="#">CompRemitStmtEnvr</a>	Aggregate	Optional	Comprehensible Remittance Statement Environment Aggregate
<a href="#">CompRemitStmtStatus</a>	Aggregate	Required	Comprehensible Remittance Statement Status Aggregate
end Aggregate			

---

**Comprehensible Remittance Statement Reference Aggregate**  
**<CompRemitStmtRef>**

Comprehensible Remittance Statement Reference Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">CompRemitStmtKeys</a>	Aggregate	Required	Comprehensible Remittance Statement Keys Aggregate
<a href="#">CompRemitStmtRec</a>	Aggregate	Required	Comprehensible Remittance Statement Record Aggregate
<a href="#">CompRemitStmtInfo</a>	Aggregate	Required	Comprehensible Remittance Statement Information Aggregate
end-xor			
end Aggregate			

---

**Comprehensible Remittance StatementResponse Message Record**  
**Aggregate <CompRemitStmtRsMsg>**

Comprehensible Remittance StatementResponse Message Record  
Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">MsgRecDt</a>	Timestamp	Optional	Audit Record Creation Date
begin-xor		Required	
<a href="#">CompRemitStmtAddRs</a>	Aggregate	Required	Comprehensible Remittance Statement Add Response
<a href="#">CompRemitStmtInqRs</a>	Aggregate	Required	Comprehensible Remittance Statement Inquiry Response
end-xor			
end Aggregate			

---

### Comprehensible Remittance Statement Selection Aggregate <CompRemitStmtSel>

Comprehensible Remittance Statement Selection Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required Repeating	
<a href="#">CompRemitStmtKeys</a>	Aggregate	Required	Comprehensible Remittance Statement Keys Aggregate
end-xor			
end Aggregate			

---

### Comprehensible Remittance Statement Status Aggregate <CompRemitStmtStatus>

Comprehensible Remittance Statement Status Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes

begin Aggregate			
<a href="#">CompRemitStmntStatusCode</a>	Open Enum	Required	Comprehensible Remittance Status Code.  Valid values include: Deleted, Deposited, Pending, Rejected, Valid
<a href="#">StatusDesc</a>	C-255	Optional	Status Description
<a href="#">EffDt</a>	DateTime	Optional	Effective Date Time
<a href="#">StatusModBy</a>	Open Enum	Optional	Status Modified By  Valid values include: BPP, BPPSR, BSP, BPSR, CPP, CPPSR, CSP, CSPSR, Customer, FI, PSP
end Aggregate			

---

**Comprehensible Remittance Statement Status Code**  
<CompRemitStmntStatusCode>

Datatype: **Open Enum**

**Enumerated Values**

Value	Description	Is default
Pending		N
Deposited		N
Rejected		N
Valid		N
Deleted		N

---

**Comprehensible Remittance Statement Status Record Aggregate**  
<CompRemitStmntStatusRec>

Comprehensible Remittance Statement Status Record Aggregate

Datatype: **Aggregate**

--	--	--	--

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">CompRemitStmtd</a>	Identifier	Required	Comprehensible Remittance Statement Identifier
<a href="#">CompRemitStmtdStatus</a>	Aggregate	Required	Comprehensible Remittance Statement Status Aggregate
end Aggregate			

---

### Comprehensible Remittance Statement Request Message <CompRemitStmtdSyncRq>

See the matching response message [CompRemitStmtdSyncRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
<a href="#">CompRemitStmtdKeys</a>	Aggregate	Optional Repeating	Comprehensible Remittance Statement Keys Aggregate
end Aggregate			

---

### Comprehensible Remittance Statement Response Message <CompRemitStmtdSyncRs>

See the matching request message [CompRemitStmtdSyncRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			

begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">CompRemitStmntRsMsg</a>	Aggregate	Optional Repeating	Comprehensible Remittance StatementResponse Message Record Aggregate
end-block			
end Aggregate			

---

### Conjunction Ticket <ConjunctionTicket>

The ticket that contains additional coupons on an itinerary that is more than four segments.

Datatype: **C-15**

---

### Contact <Contact>

The <Contact> aggregate appears wherever a person's or organization's contact information is needed.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">Language</a>	NC-17	Optional	Language
begin-xor		Required	
<a href="#">Locator</a>	Abstract Aggregate	Required	<b>Valid Aggregates are:</b> Locator Email PhoneNum PostAddr
<a href="#">ResourceLocator</a>	URL	Required	Location to access information about a person or organization.



end-xor			
<a href="#">ContactType</a>	Open Enum	Optional	Contact Type  Valid values include: CustSvc, Enroll, GeneralInfo, LostCard, Marketing, Other, Personal, PersonalRef, Statement, Tech
<a href="#">PreferredInd</a>	Boolean	Optional	Indicates whether this particular contact is a preferred method of reaching the person or organization.
<a href="#">ContactName</a>	C-40	Optional	Name. Name of the person associated with the contact information. Typically, this is the name of the person within the business that the phone number, email address, and/or address is associated with.
<a href="#">TimeFrame</a>	Aggregate	Optional	The timeframe during which a particular contact should be used.
<a href="#">JobTitle</a>	C-32	Optional	Job Title
<a href="#">DoNotSolicitInd</a>	Boolean	Optional	Do Not Solicit Indicator
end Aggregate			

---

### Contact Name <ContactName>

The name of the person to contact.

Datatype: **C-40**

---

### Contact Preference <ContactPref>

This is the preferred method to reach the entity to whom the <ContactInfo> refers.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
DayPhone	Indicates customer prefers to be contacted via daytime telephone number.	N

EvePhone	Indicates customer prefers to be contacted via evening telephone number.	N
DayFax	Indicates customer prefers to be contacted via fax number for the customer for daytime hours.	N
EveFax	Indicates customer prefers to be contacted via fax number for the customer for evening hours.	N
Email	Indicates customer prefers to be contacted via email.	N
Post	Indicates customer prefers to be contacted by paper mail.	N

---

### Contact Type <ContactType>

The specific type of the contact.

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
CustSvc	Customer Service.	N
Enroll	Enrollment.	N
Tech	Technical Support.	N
Personal	Personal.	N
LostCard		N
GeneralInfo		N
Other		N
Statement		N
Marketing		N
PersonalRef		N

---

### Content Type <ContentType>

Specified in IETF RFC 2046.

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
-------	-------------	------------

---

### Context Request Header <ContextRqHdr>

Context information for the message. If the message forms part of an operation, any content in this aggregate overrides the corresponding content in the <OprRqHdr>.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">FieldSelect</a>	IfxPath	Optional Repeating	Field Select
<a href="#">ClientTerminalSeqNum</a>	NC-36	Optional	Client Sequence Number
<a href="#">NetworkTrnData</a>	Aggregate	Optional	Network Transaction Data
<a href="#">PointOfServiceData</a>	Aggregate	Optional	Point of Service Data
<a href="#">EMVRqData</a>	Aggregate	Optional	EMV Request Data
<a href="#">MsgAuthCode</a>	Aggregate	Optional	Message Authentication Code
<a href="#">ClientDt</a>	DateTime	Optional	Client DateTime
<a href="#">CustLangPref</a>	NC-17	Optional	Customer Language Preference
<a href="#">ClearingLangCode</a>	Aggregate	Optional	Clearing Language Code
<a href="#">ClientApp</a>	Aggregate	Optional	Client Application
<a href="#">ProxyClient</a>	Aggregate	Optional	Proxy Client
<a href="#">MsgGroupReference</a>	C-36	Optional	Message Group Reference
end Aggregate			

---

### Context Response Header <ContextRsHdr>

The response header aggregate contains common information for all response messages.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			

<a href="#">ServerDt</a>	DateTime	Required	Server DateTime
<a href="#">ServerTerminalSeqNum</a>	NC-36	Optional	Server Terminal Sequence Identifier
<a href="#">Language</a>	NC-17	Optional	Language
<a href="#">EMVRsData</a>	Aggregate	Optional	EMV Response Data
<a href="#">MsgAuthCode</a>	Aggregate	Optional	Message Authentication Code
end Aggregate			

---

### Contra Currency Amount <ContraCurAmt>

Contra Currency Amount

Datatype: **Decimal**

---

### Contra Currency Code <ContraCurCode>

Contra Currency Code

Extends: [CurCode](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from CurCode			
<a href="#">CurCodeType</a>	Open Enum	Optional	Currency Code Type  Valid values include: ISO4217-Alpha, ISO4217-Numeric
<a href="#">CurCodeValue</a>	Open Enum	Required	Currency Code Value
end Elements from CurCode			
begin Aggregate			
end Aggregate			

---

### Corporate Account Relationship Type <CorpAcctRelType>

Indicates if the account is a Parent or Child.

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
Parent	Parent	N
Child	Child	N

---

### Corporate Account Type <CorpAcctType>

Indicates the type of corporate account.

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
Corporate	Corporate	Y
Family	Family	N

---

### Corporate Credit Limit Indicator <CorpCreditLimitInd>

Indicates if the parent accounts credit limit must equal the sum of the children.

Datatype: **Boolean**

---

### Corporate Financial Liability <CorpFinLiab>

Indicates if the Parent, Child or Both are financially responsible for the account.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Parent	Parent	N
Child	Child	Y
Both	Parent and Child Account	N

---

### Corporate Account Data <CorporateAcctData>

Provides support for the options to process corporate or business cards.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">CorpAcctType</a>	Open Enum	Optional	Corporate Account Type Valid values include: Corporate , Family
<a href="#">CorpAcctRelType</a>	Open Enum	Optional	Corporate Account Relationship Type Valid values include: Child, Parent
<a href="#">ParentAcctKeys</a>	Aggregate	Optional	The parent account in a corporate relationship.
<a href="#">RollBalance</a>	Open Enum	Optional	Roll Balance Valid values include: FullStmtBal, None, PaymentDue Default Value: None
<a href="#">CorpStmtDetail</a>	Open Enum	Optional	Corporate Statement Detail Valid values include: Both, Child, Parent Default Value: Child
<a href="#">CorpCreditLimitInd</a>	Boolean	Optional	Corporate Credit Limit Indicator
<a href="#">MaxCreditLimitPct</a>	Decimal	Optional	Maximum Credit Limit Percent
<a href="#">CorpFinLiab</a>	Open Enum	Optional	Corporate Financial Liability

			Valid values include: Both, Child, Parent Default Value: Child
<a href="#">EmbossCorpNameInd</a>	Boolean	Optional	Emboss Corporate Name Indicator
end Aggregate			

---

### Corporate Identifier <CorporatIdent>

The unique identifier of the corporation or entity renting the vehicle.

Datatype: **C-12**

---

### Corporate Statement Detail <CorpStmtDetail>

Specifies if the child account's transaction detail is printed on the parent's account statement.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Parent	Parent	N
Child	Child	Y
Both	Parent and Child Account	N

---

### Correction Action <CorrectAction>

Correction Action

Datatype: **Closed Enum**

## Enumerated Values

Value	Description	Is default
Replace		N
Delete		N

---

### Correspondence Delivery <CorrespondDelivery>

Provides delivery options related to various types of correspondence.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">CorrespondType</a>	Open Enum	Optional	Correspondence Type Valid values include: Letters, PINs, Plastic, Statements
<a href="#">DeliveryInstruction</a>	Aggregate	Optional	Delivery Instruction
end Aggregate			

---

### Correspondence <Correspondence>

This aggregate supports correspondences sent/received between Financial Institution and Party

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">CorrespondenceIdent</a>	NC-36	Optional	Correspondence Identifier
<a href="#">Desc</a>	C-80	Optional	Description
<a href="#">Version</a>	NC-12	Optional	The version of the object or item.
<a href="#">CorrespondenceType</a>	C-40	Optional	Correspondence Type
<a href="#">DeliveryMethod</a>	Open Enum	Optional	Delivery Method Valid values include: Channel, Courier, Email, Fax, HomeBank, InPerson, LocalPrinter, OverNight, Phone, Post,



			SMS, TwoDay, UPS, URL
<a href="#">DeliveryDt</a>	Date	Optional	Delivery Date
<a href="#">ReceiptDt</a>	Date	Optional	Receipt Date
<a href="#">CampaignIdent</a>	NC-36	Optional	Campaign Identifier
<a href="#">FormImg</a>	Aggregate	Optional	Form Image
<a href="#">FormImgLoc</a>	C-255	Optional	Form Image Location
<a href="#">BatchNum</a>	C-40	Optional	Batch Number
<a href="#">FileRecordNum</a>	C-40	Optional	File Record Number
<a href="#">QuestionAnswer</a>	Aggregate	Optional Repeating	Question and Answer Pair
end Aggregate			

---

### Correspondence Identifier <CorrespondenceIdent>

Identifies a standard correspondence document of the financial institution OR may provides optional key of reference.

Datatype: **NC-36**

---

### Correspondence Type <CorrespondenceType>

Indicates type of correspondence (Examples: application, privacy data, identification, contract, appraisal, disclosure)

Datatype: **C-40**

---

### Correspondence Type <CorrespondType>

Defines the type of correspondence being delivered.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Letters	Letters	N
PINs	PINs	N
Plastic	Plastic	N
Statements	Statements	N

---

### Count <Count>

The number of items. Interpretation depends on context., e.g. count of bills with a given status code, as used in <BillCounts> aggregate.

Datatype: **Long**

---

### Counterparty Data Aggregate <CounterpartyData>

The Counterparty Data aggregate <CounterpartyData> contains information regarding the source (originator) party of the transaction posted on the account, typically AP or AR reference numbers and originating company bank information..

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">LegalName</a>	C-96	Optional	Legal Name. Used by entities like trusts, or businesses in the case where an individual is "doing business as" a company. Name of payor of funds.
<a href="#">RefData</a>	Aggregate	Optional Repeating	Reference Information Aggregate. References unique to the counterparty of the transaction.
<a href="#">AcctKeys</a>	Aggregate	Optional	Account Keys Aggregate
end Aggregate			

---

## Country Code <CountryCode>

All representations of countries in the IFX Specification are based upon agreed upon standard codes between client and server. The default, if not specified, is the Alpha 3-character codes for countries that are defined in ISO-3166. These country codes are used in this specification for the following purposes:

- In postal addresses,
- With language codes to specify a dialect of a language used in multiple countries, and
- To identify country-specific tags that may be used to pass and store data relevant only in a single country.

Extended By: [ClearingLangCode](#), [PickupCountry](#), [ResidenceCountry](#), [ReturnCountry](#), [SupplyingCountry](#), [TaxCountry](#), [TaxResidenceCountry](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">CountryCodeSource</a>	Open Enum	Optional	Country Code Source  Valid values include: FIPS-10, ISO3166-Alpha-2, ISO3166-Alpha-3, ISO3166-Numeric, ITU-E.164, STANAG-1059  Default Value: ISO3166-Alpha-3
<a href="#">CountryCodeValue</a>	Open Enum	Required	Country Code Value
end Aggregate			

---

## Country Code Source <CountryCodeSource>

Country Code Source

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
FIPS-10		N
ISO3166-Alpha-2		N
ISO3166-Alpha-3		Y

ISO3166-Numeric		N
STANAG-1059		N
ITU-E.164		N

---

### Country Code Value <CountryCodeValue>

Country Code Value

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
-------	-------------	------------

---

### County District <CountyDistrict>

Provides the name of the Council, County, District or Ward etc.

Datatype: **C-32**

---

### Coupon Number <CouponNumber>

A ticket can contain several legs of travel and each leg of travel requires a separate coupon within the series identified by a coupon number.

Datatype: **C-1**

---

### Cover Monogram <CoverMngrm>

Up to 3 characters affixed to the covers ordered.

Datatype: **C-3**

---

**Cover Style <CoverStyleIdent>**

Checkbook cover style.

Datatype: **NC-36**

---

**Customer Payment Provider Data <CPPData>**

The Payment Provider initiates and manages payments on behalf of a retail or commercial customer. ISO20022 refers to this as the Initiating Party.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">PartyData</a>	Abstract Aggregate	Required	<b>Valid Aggregates are:</b> Party Data OrgData PersonData
end Aggregate			

---

**Creation DateTime <CreatedDt>**

Creation DateTime.

Datatype: **DateTime**

---

### **Create Fraud Account <CreateFraudAcct>**

Indicates whether a fraud account is to be automatically generated when the lost/stolen incident is added or wait until the first fraud transaction is identified.

Datatype: **Boolean**

---

### **Creation Reference Identifier <CreateRefIdent>**

An optional element that allows the object creator to return reference information for an object. Provides a permanent reference for the object and may be used by the client or its customer in reporting problems.

Datatype: **NC-36**

---

### **Credentials Request Header <CredentialsRqHdr>**

Aggregate for authentication credentials in a request header.

The <CredentialsRqHdr> is used for both authentication and identification. Identification is done through the <PartyRef> aggregate, unless the security token supplied provides information for both identification and authentication.

The <SubjectRole> element identifies who is identified by the credentials. Multiple credentials for different roles can be supplied, e.g. if a person identifies themselves with a passport to a teller to conduct a transaction on behalf of an organization for which he has a card, there would be 3 credentials provided:

- A credential with <SubjectRole> CSR to represent the teller, probably with a <SecTokenKey>, if the teller signed in to a session previously and requested a session token.
- A credential with <SubjectRole> PartyRep representing the person in the bank with a <SecTokenIssuedIdent> if the passport is verified by the system or <SecTokenObject> if the teller verified the passport and no passport data is transmitted.
- A credential with <SubjectRole> Party, with <PartyRef> identifying the organization with the FI relationship and a <SecTokenCard>. Note, if no authentication for the organization is required, the

security token could be omitted for this credential.

If multiple credentials are used, they are identified by different <SeqNum>s.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SubjectRole</a>	Open Enum	Required	Subject Role  Valid values include: Anonymous, CSR, Party, PartyRep, Supervisor, System
<a href="#">StartSession</a>	Boolean	Optional	Start Session
<a href="#">PartyRef</a>	Aggregate	Optional	Identifies the Party, if the party cannot be identified by the security token but identification of the party is required. This is usually used in situations when a CSR acts on behalf of a party
<a href="#">SeqNum</a>	Long	Optional	Sequence number of the credential. This is required if multiple <CredentialRqHdr>s are in the request header.
<a href="#">SecToken</a>	Abstract Aggregate	Optional Repeating	<b>Valid Aggregates are:</b> SecTokenCard SecTokenCert SecTokenICC SecTokenIssuedIdent Security Token SecTokenKey SecTokenLogin SecTokenMagCard SecTokenObject SecTokenParty SecTokenSecretAnswer
<a href="#">OvredExceptionCode</a>	C-40	Optional	Identifies an exception that needs to be overridden and may be accompanied by a SecToken.
end Aggregate			

---

### Credentials Response Header <CredentialsRsHdr>

The response to a specific credentials request. This is only required if there is an error or warning status or if a session key was requested. If multiple credentials were used in the request header the each <CredentialsRs> aggregate matches the <CredentialsRq> with the same <SeqNum>.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">SeqNum</a>	Long	Optional	Sequence number
<a href="#">SessKey</a>	NC-64	Optional	A token supplied by a server on request to use as credential in multiple message or operation requests during a client session, instead of providing the full credentials in each request.
<a href="#">ExpDt</a>	DateTime	Optional	Expiration Date
end Aggregate			

---

**Credit Account Data Aggregate <CreditAcctData>**

Used to maintain and retrieve data specific to credit products.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">OriginationDt</a>	Date	Optional	Origination Date
<a href="#">Freq</a>	Open Enum	Optional	Frequency  Valid values include: Annually, BiMonthly, Biweekly, Daily, EndOfMonth, FourWeeks, Monthly, Quarterly, SemiAnnually, TwiceMonthly, Weekly
<a href="#">TotalPmtCount</a>	Long	Optional	Number of payments due when loan is added.
<a href="#">PurposeDesc</a>	C-80	Optional	Purpose Description
<a href="#">CollateralDesc</a>	C-80	Optional	Collateral Description.
<a href="#">RegPmt</a>	Aggregate	Optional	Regular Payment
<a href="#">DueDt</a>	Date	Optional	Due Date
<a href="#">NextPmt</a>	Aggregate	Optional	Next Payment
<a href="#">PrepayPenalty</a>	Aggregate	Optional	Prepay Penalty
<a href="#">LOCLoanData</a>	Aggregate	Optional	Line of Credit Loan Data Aggregate
<a href="#">WriteOffReason</a>	C-80	Optional	Account WriteOff Reason
<a href="#">WriteOffRespParty</a>	C-80	Optional	Account WriteOff Responsible Party



end Aggregate

---

### Credit Request Message <CreditAddRq>

The Credit Add message is used to add a credit for immediate action or to confirm a previously added credit authorization.

See the matching response message [CreditAddRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">CreditInfo</a>	Aggregate	Required	Credit Information Aggregate
end Aggregate			

---

### Credit Response Message <CreditAddRs>

Credit Add Message. Used to credit funds to an account.

See the matching request message [CreditAddRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	

<a href="#">CreditRec</a>	Aggregate	Required	Credit Record Aggregate
<a href="#">CreditStatusRec</a>	Aggregate	Required	Credit Status Record Aggregate
end-xor			
end-block			
end Aggregate			

---

### Credit Request Message <CreditAdviseRq>

Credit Advise Request Message.

See the matching response message [CreditAdviseRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
begin-xor		Required	
<a href="#">CreditRec</a>	Aggregate	Required	Credit Record Aggregate
<a href="#">CreditStatusRec</a>	Aggregate	Required	Credit Status Record Aggregate
end-xor			
end Aggregate			

---

### Credit Response Message <CreditAdviseRs>

See the matching request message [CreditAdviseRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
	UUID		

<a href="#">RqUID</a>		Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">CreditRec</a>	Aggregate	Required	Credit Record Aggregate
<a href="#">CreditStatusRec</a>	Aggregate	Required	Credit Status Record Aggregate
end-xor			
end-block			
end Aggregate			

---

### Credit Request Message <CreditAudRq>

See the matching response message [CreditAudRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
<a href="#">DtRange</a>	Aggregate	Optional	Date Range
<a href="#">Method</a>	Closed Enum	Optional Repeating	Method Valid values are limited to: Add, Advise, AuthMod, Can, Del, Mod, StatusMod
<a href="#">CreditKeys</a>	Aggregate	Optional Repeating	Credit Keys Aggregate
end Aggregate			

---

### Credit Response Message <CreditAudRs>

See the matching request message [CreditAudRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">CreditRsMsg</a>	Aggregate	Optional Repeating	CreditResponse Message Record Aggregate
end-block			
end Aggregate			

---

**Credit Bureau <CreditBureau>**

Name of the Credit Bureau

Datatype: **C-96**

---

**Credit Bureau Summary <CreditBureauSummary>**

Aggregate includes credit bureau request and response data.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">CreditBureau</a>	C-96	Optional	Credit Bureau
<a href="#">BureauScore</a>	Long	Required	Bureau Score
<a href="#">ReportRequestDt</a>	Date	Optional	Report Request Date
<a href="#">ScoreModel</a>	C-40	Optional	Score Model
<a href="#">UpDt</a>	Timestamp	Optional	Update Date Time
end Aggregate			

end Aggregate

---

### Credit Request Message <CreditCanRq>

See the matching response message [CreditCanRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">CreditKeys</a>	Aggregate	Required	Credit Keys Aggregate
end Aggregate			

---

### Credit Response Message <CreditCanRs>

See the matching request message [CreditCanRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">CreditRec</a>	Aggregate	Required	Credit Record Aggregate
<a href="#">CreditStatusRec</a>	Aggregate	Required	Credit Status Record Aggregate

end-xor
end-block
end Aggregate

## Credit Environment Aggregate <CreditEnvr>

Credit Environment Aggregate

Extends: [BaseEnvr](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseEnvr			
<a href="#">CreatedDt</a>	DateTime	Required	Created Date/Time. The date/time the object was created.
<a href="#">CreateRefIdent</a>	NC-36	Optional	An identifier used to uniquely identify the creation of this object to the system that created the object. This will usually be a link to reference information used in creating the object.
<a href="#">ClientCreateDt</a>	DateTime	Optional	The created date/time as reported by the client. This can vary from the object creation date/time due to time zone differences, communication delays, etc
<a href="#">ClientBusinessDt</a>	DateTime	Optional	The date/time that the client recorded this object for operational purposes. This date/time will often be used to manage the availability of information or funds.
<a href="#">LastUpdateDt</a>	DateTime	Optional	Last update Date/Time. The date/time the object was created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LastUpdateRqUID</a>	UUID	Optional	Last update RqUID. The RqUID from the message that resulted in th object being created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LoginName</a>	C-40	Optional	The login name (or Id) of the individual that authorized this object to be created. This is typically used when the object is created on behalf of its owner by someone who is not

			normally represented as a Party (i.e., an employee or agent).
<a href="#">PartyKeys</a>	Aggregate	Optional	Reference to the Party that this object is owned by or authorized by.
<a href="#">CardKeys</a>	Aggregate	Optional	This is dependent on Card proposal. Currently this is implemented as the CardLogicalData aggregate.
<a href="#">PassbkKeys</a>	Aggregate	Optional	Currently PassbkAcceptData.
<a href="#">NetworkTrnData</a>	Aggregate	Optional	Network Transaction Information. Identification and location of the terminal from which the message originates.
<a href="#">ServerTerminalSeqNum</a>	NC-36	Optional	Server Terminal Sequence Number. A terminal sequence number generated by the server to identify this object. This number is used in ATM and POS environments to uniquely identify transactions (with terminal name and date) for transaction management.
<a href="#">PointOfServiceData</a>	Aggregate	Optional	The Point of Service Data. This aggregate contains information about the environment in which this message originated.
<a href="#">ClientTerminalSeqNum</a>	NC-36	Optional	Client Terminal Sequence Number. A terminal sequence number generated by the client to identify this object. This number is used in ATM, POS, Branch, Call Center and Teller environments to uniquely identify transactions at the client (with terminal name and date). This number is often required when requesting supporting documentation related to a customer transaction.
end Elements from BaseEnvr			
begin Aggregate			
end Aggregate			

---

### Credit Held Expiry Date <CreditHeldAmtExpDt>

Credit/Deposit Hold Expiry Date. The date that the current deposit held amount of this transaction would expire. The current held amount of this deposit transaction would become available on this date.

NOTE: This date applies only to the portion of the deposit, which is held (and the credit status is "Authorized"), and it does not apply to the entire deposit (when the credit status is "Held").

Datatype: **DateTime**

---

### Credit Held Days <CreditHeldDays>

The number of days following the posting of the automatic payment transaction that the payment amount will be held from the available credit due to float or in case payment is returned.

Datatype: **Long**

---

### Credit Identifier <CreditId>

Credit Identifier

Datatype: **Identifier**

---

### Credit Information Aggregate <CreditInfo>

Credit Information Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">CreditType</a>	Open Enum	Optional	The type of the credit transaction.  Defined Values:  UnverifiedCashDeposit, VerifiedCashDeposit, UnverifiedCheckDeposit, VerifiedCheckDeposit, EnvelopeDeposit, MultiDeposit, MerchandiseReturn, ChkPayment, ChkCash.
<a href="#">CompositeCurAmt</a>	Aggregate	Required Repeating	The amounts of the credit transaction and appropriate fees.



<a href="#">AcctRef</a>	Aggregate	Optional	Account Reference Aggregate
<a href="#">AthKeys</a>	Aggregate	Optional	Credit Authorization Identifier. Assigned by the server at the time the Credit Authorization is first added. This is used to relate a credit to a previously authorized credit authorization object
<a href="#">CreditId</a>	Identifier	Optional	Credit Identifier. If this credit is used for a split deposit transaction then this element will contain the credit identifier assigned by the server of the previous credit transaction to link the credit messages together.
<a href="#">ClientChgCode</a>	Open Enum	Optional	Client Change Code. This indicates the reason why a Credit was for a different amount from the original authorization for the credit.  Defined Values:  None, ConsumerCancelled, TerminalExceptionAmountKnown, TerminalExceptionAmountUnknown, ConsumerExceptionAmountKnown, ConsumerExceptionAmountUnknown, ConsumerDeclined, ConsumerTimeout
<a href="#">CreditMediaItem</a>	Aggregate	Optional Repeating	Credit Media Item aggregate. This aggregate contains details pertaining to the individual items in the deposit (e.g. check, cash).
end Aggregate			

---

### Credit Request Message <CreditInqRq>

See the matching response message [CreditInqRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">DocCtrlIn</a>	Aggregate	Optional	Document Control Input
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
		Optional	

begin-xor		Repeating	
<a href="#">CreditSel</a>	Aggregate	Required	Credit Selection Aggregate
<a href="#">RecSelect</a>	IfxPath	Required	Record Select
end-xor			
end Aggregate			

---

### Credit Response Message <CreditInqRs>

See the matching request message [CreditInqRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">DocCtrlOut</a>	Aggregate	Optional	Document Control Output
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">CreditRec</a>	Aggregate	Required Repeating	Credit Record Aggregate
end-block			
end Aggregate			

---

### Credit Keys Aggregate <CreditKeys>

Credit Keys Aggregate

Extends: [BaseKeys](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes

begin Elements from BaseKeys			
end Elements from BaseKeys			
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
begin-xor		Required	
<a href="#">CreditId</a>	Identifier	Required	Credit Identifier
end-xor			
end Aggregate			

---

### Credit Media Cash Information <CreditMediaCashData>

The <CreditMediaCashInfo> aggregate contains details about a cash media item being deposited.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">CashAmt</a>	Aggregate	Required	Cash Amount. The cash denomination being deposited.
<a href="#">CashValidity</a>	Open Enum	Optional	Cash Validity. The validity of the cash being deposited.  Defined Values:  Genuine, Counterfeit, Suspect
<a href="#">CashQuality</a>	Open Enum	Optional	Cash Quality. The quality of the cash being deposited.  Defined Values:  Fit, Unfit
end Aggregate			

---

### Credit Media Check Information <CreditMediaChkData>

The <CreditMediaChkInfo> aggregate contains details about a check

media item being deposited cashed or used for payment.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">ChkEnteredAmt</a>	Aggregate	Required	Check Entered Amount. The amount the customer entered as the check amount being deposited or cashed.
<a href="#">ChkCourtesyAmt</a>	Aggregate	Optional	Check Courtesy Amount. The amount read from the courtesy amount of the check being deposited or cashed.
<a href="#">MicrReadIntegrity</a>	Open Enum	Optional	MICR Read Integrity. The integrity of the MICR data read from the check being deposited or cashed.  Defined Values:  Good, Partial, Bad
<a href="#">MicrUnformatted</a>	C-64	Optional	MICR Unformatted. The unformatted MICR data read from the check being deposited or cashed.
<a href="#">ChkImgData</a>	Aggregate	Optional	Check Images
<a href="#">ChkDetail</a>	Aggregate	Optional	Check Detail
<a href="#">PartyData</a>	Abstract Aggregate	Optional	Drawee information such as driver license number and birth date used by some network authorizers. <b>Valid Aggregates are:</b> OrgData PersonData
<a href="#">ChkAcceptId</a>	Identifier	Optional	Check Accept Identifier. The identifier from the Check Accept add request message that can be used to find the original Check Accept info.
end Aggregate			

### Credit Media Item <CreditMediaItem>

The <CreditMediaItem> aggregate contains details of the media item (e.g. check, cash) being deposited.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			

<a href="#">CreditMediaItemIdent</a>	NC-36	Optional	Credit Media Item Identifier. If more than one <CreditMediaItem> aggregate exists then the <CreditMediaItemId> is required.
begin-xor		Required	
<a href="#">CreditMediaCashData</a>	Aggregate	Required	Credit Media Cash Information aggregate. This aggregate contains details about cash being deposited.
<a href="#">CreditMediaChkData</a>	Aggregate	Required	Credit Media Check Information aggregate. This aggregate contains details about the check being deposited.
end-xor			
end Aggregate			

---

### Credit Media Item Identifier <CreditMediaItemIdent>

Credit Media Item Identifier.

Datatype: **NC-36**

---

### Credit Request Message <CreditModRq>

See the matching response message [CreditModRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">CreditKeys</a>	Aggregate	Required	Credit Keys Aggregate
begin-block		Required Repeating	
<a href="#">CreditInfo</a>	Aggregate	Required	Credit Information Aggregate
begin-xor		Optional	

		Repeating	
<a href="#">DelElements</a>	IfxPath	Required	An IfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to delete. It is an error if one attempts to delete Required fields.
<a href="#">UpdElements</a>	IfxPath	Required	An IfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to update. The new value of the updated element is in the accompanying xxxInfo aggregate.
<a href="#">NewElements</a>	IfxPath	Required	An IfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to add. The new value of the new elements is in the accompanying xxxInfo aggregate.
end-xor			
end-block			
end Aggregate			

## Credit Response Message <CreditModRs>

See the matching request message [CreditModRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">CreditRec</a>	Aggregate	Required	Credit Record Aggregate
<a href="#">CreditStatusRec</a>	Aggregate	Required	Credit Status Record Aggregate
end-xor			
end-block			
end Aggregate			

---

**Creditor Account Number With Debtor <CreditorAcctNumWithDebtor>**

Aka AcctPayAcctIdent; Accounts Payable or similar identifier assigned to this creditor in the debtor's accounting system.

Datatype: **NC-36**

---

**Creditor Currency Amount <CreditorCurAmt>**

Currency amount expressed in the currency of a creditor.

Extends: [CurAmt](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from CurAmt			
<a href="#">Amt</a>	Decimal	Optional	Amount.
<a href="#">CurCode</a>	Aggregate	Optional	Currency Code
end Elements from CurAmt			
begin Aggregate			
end Aggregate			

---

**Creditor Data <CreditorData>**

In payment scenarios, Creditor refers to the payee. CreditorData contains the information about the payee.

Extended By: [UltimateCreditorData](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">PartyData</a>	Abstract Aggregate	Optional Repeating	Party <b>Valid Aggregates are:</b>

			information. OrgData PersonData
<a href="#">CreditorAcctNumWithDebtor</a>	NC-36	Optional	Aka AcctPayAcctIdent; Accounts Payable or similar identifier assigned to this creditor in the debtor's accounting system.
end Aggregate			

---

### Credit Record Aggregate <CreditRec>

Credit Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">CreditId</a>	Identifier	Required	Credit Identifier
<a href="#">CreditInfo</a>	Aggregate	Required	Credit Information Aggregate
<a href="#">CreditEnvr</a>	Aggregate	Optional	Credit Environment Aggregate
<a href="#">CreditStatus</a>	Aggregate	Required	Credit Status Aggregate
end Aggregate			

---

### Credit Reference Aggregate <CreditRef>

Credit Reference Aggregate

Extends: [TrnRef](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from TrnRef			
end Elements from TrnRef			
begin Aggregate			
begin-xor		Required	



<a href="#">CreditKeys</a>	Aggregate	Required	Credit Keys Aggregate
<a href="#">CreditRec</a>	Aggregate	Required	Credit Record Aggregate
<a href="#">CreditInfo</a>	Aggregate	Required	Credit Information Aggregate
end-xor			
end Aggregate			

---

### Credit Balance Return Indicator <CreditReturnInd>

This indicator determines if a direct credit transaction should be generated instead of a direct debit when there is a credit balance on the account.

Datatype: **Boolean**

---

### Credit Review Time Frame <CreditReviewTimeFrame>

Credit Review Time Frame

Extends: [TimeFrame](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from TimeFrame			
<a href="#">StartDt</a>	DateTime	Optional	Start Date
begin-xor		Optional	
<a href="#">EndDt</a>	DateTime	Required	End Date
<a href="#">Duration</a>	Aggregate	Required	Duration
end-xor			
<a href="#">AllDayEvent</a>	Boolean	Optional	All Day Event
<a href="#">RecurRule</a>	Aggregate	Optional Repeating	Defines a rule for events that recur in a specific defined pattern.
<a href="#">RecurException</a>	Aggregate	Optional Repeating	Indicates an exception to the recurrence rule.
end Elements from TimeFrame			
begin Aggregate			

end Aggregate

---

### Credit Request Message <CreditRevRq>

See the matching response message [CreditRevRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RevReasonCode</a>	Aggregate	Required	Reversal Reason Code
<a href="#">Desc</a>	C-80	Optional	Description
<a href="#">CreditRqMsg</a>	Aggregate	Required	Credit Request Message Record Aggregate
end Aggregate			

---

### Credit Response Message <CreditRevRs>

See the matching request message [CreditRevRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
end Aggregate			

---

**Credit Risk <CreditRisk>**

Credit Risk

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RiskCategory</a>	C-40	Optional	Risk Category
<a href="#">InternalScore</a>	Long	Optional	Internal Score
<a href="#">ScoreGeneratedDt</a>	Date	Optional	Score Generated Date
<a href="#">CreditBureauSummary</a>	Aggregate	Optional Repeating	Credit Bureau Summary
end Aggregate			

---

**Credit Request Message Record Aggregate <CreditRqMsg>**

Credit Request Message Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">CreditAddRq</a>	Aggregate	Required	Credit Add Request
<a href="#">CreditModRq</a>	Aggregate	Required	Credit Modification Request Message
<a href="#">CreditCanRq</a>	Aggregate	Required	Credit Cancel Request
<a href="#">CreditInqRq</a>	Aggregate	Required	Credit Inquiry Request
<a href="#">CreditAdviseRq</a>	Aggregate	Required	Credit Advise Request
<a href="#">CreditAudRq</a>	Aggregate	Required	Credit Audit Request
<a href="#">CreditSyncRq</a>	Aggregate	Required	Credit Synchronization Request
<a href="#">CreditStatusModRq</a>	Aggregate	Required	Credit Status Modification Request
<a href="#">RevRqUID</a>	UUID	Required	Reversal Request Unique ID
end-xor			
end Aggregate			

---

## CreditResponse Message Record Aggregate <CreditRsMsg>

CreditResponse Message Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">MsgRecDt</a>	Timestamp	Optional	Audit Record Creation Date
begin-xor		Required	
<a href="#">CreditAddRs</a>	Aggregate	Required	Credit Add Response
<a href="#">CreditModRs</a>	Aggregate	Required	Credit Modification Response
<a href="#">CreditCanRs</a>	Aggregate	Required	Credit Cancel Response
<a href="#">CreditRevRs</a>	Aggregate	Required	Credit Reversal Response
<a href="#">CreditInqRs</a>	Aggregate	Required	Credit Inquiry Response
<a href="#">CreditAdviseRs</a>	Aggregate	Required	Credit Advise Response
<a href="#">CreditStatusModRs</a>	Aggregate	Required	Credit Status Modify Request
end-xor			
end Aggregate			

---

## Credit Return Account Reference <CreditRtnAcctRef>

Specifies the account to use for returning credit balances.

Extends: [AcctRef](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from AcctRef			
begin-xor		Required	
<a href="#">AcctKeys</a>	Aggregate	Required	Account Keys Aggregate
<a href="#">AcctRec</a>	Aggregate	Required	Account Record
	Aggregate		

<a href="#">AcctInfo</a>		Required	Account Information Aggregate
end-xor			
end Elements from AcctRef			
begin Aggregate			
end Aggregate			

---

### Credit Selection Aggregate <CreditSel>

Credit Selection Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required Repeating	
<a href="#">CreditKeys</a>	Aggregate	Required	Credit Keys Aggregate
end-xor			
end Aggregate			

---

### Credit Status Aggregate <CreditStatus>

Credit Status Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">CreditStatusCode</a>	Open Enum	Required	Credit Status Code  Valid values include: Authorized, Deleted, Held, Posted, Rejected, Valid
<a href="#">StatusDesc</a>	C-255	Optional	Status Description
<a href="#">EffDt</a>	DateTime	Optional	Effective Date Time
<a href="#">StatusModBy</a>	Open	Optional	Status Modified By

	Enum		Valid values include: BPP, BPPSR, BSP, BPSR, CPP, CPPSR, CSP, CSPSR, Customer, FI, PSP
<a href="#">CreditHeldAmtExpDt</a>	DateTime	Optional	Credit Held Expiry Date
<a href="#">StatusReason</a>	C-80	Optional	Status Reason
end Aggregate			

---

### Credit Status Code <CreditStatusCode>

The current status of the credit authorization object.

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
Authorized	The credit was authorized for processing.	N
Rejected	The credit was rejected for processing.	N
Posted	The credit was posted into the account.	N
Held	The credit is being held.	N
Valid		N
Deleted		N

---

### Credit Request Message <CreditStatusModRq>

See the matching response message [CreditStatusModRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">CreditKeys</a>	Aggregate	Required	Credit Keys Aggregate

<a href="#">CreditStatus</a>	Aggregate	Required	Credit Status Aggregate
end Aggregate			

---

### Credit Response Message <CreditStatusModRs>

See the matching request message [CreditStatusModRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">CreditStatusRec</a>	Aggregate	Required	Credit Status Record Aggregate
end-block			
end Aggregate			

---

### Credit Status Record Aggregate <CreditStatusRec>

Credit Status Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdntf</a>	Aggregate	Optional	Service Identifier
<a href="#">CreditId</a>	Identifier	Required	Credit Identifier
<a href="#">CreditStatus</a>	Aggregate	Required	Credit Status Aggregate
end Aggregate			

---

### Credit Statement Data Aggregate <CreditStmtData>

Credit Statement Data Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">ExtAcctBal</a>	Aggregate	Optional	Extended Account Balance
<a href="#">DueDt</a>	Date	Optional	Due Date
<a href="#">MinAmtDue</a>	Aggregate	Optional	Minimum Amount Due
<a href="#">DelinqAging</a>	Aggregate	Optional Repeating	Delinquency Aging. This aggregate will be deprecated in IFX release 3.x, replaced by <AcctPeriodData>.
end Aggregate			

---

### Credit Request Message <CreditSyncRq>

See the matching response message [CreditSyncRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
<a href="#">CreditKeys</a>	Aggregate	Optional Repeating	Credit Keys Aggregate
end Aggregate			

---

### Credit Response Message <CreditSyncRs>



See the matching request message [CreditSyncRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">CreditRsMsg</a>	Aggregate	Optional Repeating	CreditResponse Message Record Aggregate
end-block			
end Aggregate			

---

**Credit Type <CreditType>**

The type of the credit.

Datatype: **Open Enum**

**Enumerated Values**

Value	Description	Is default
UnverifiedCashDeposit	A cash deposit, where further validation is required to ensure the deposited cash is legal tender.	N
VerifiedCashDeposit	A cash deposit, where the notes have been verified and validated (i.e. this can be credited immediately).	N
UnverifiedCheckDeposit	A check deposit, where some further validation is required.	N
VerifiedCheckDeposit	A check deposit, where the check has been validated.	N
EnvelopeDeposit	The customer inserted their deposit amount in an envelope to be credited to the account.	N
MultiDeposit	The customer deposited combination of currency notes and checks to be credited to the account.	N
MerchandiseReturn	The customer returned merchandise.	N
ChkPayment	An electronic payment transaction with a check.	N

ChkCash	A check cashing transaction.	N
DebitReversal		N

---

### Encrypted PIN <CryptPIN>

Encrypted PIN value

Extends: [Binary128](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from Binary128			
<a href="#">ContentType</a>	Open Enum	Optional	Specified in IETF RFC 2046.
<a href="#">BinLength</a>	Long	Required	Binary Data Length
<a href="#">BinData</a>	Raw Binary Data	Required	Binary Data
end Elements from Binary128			
begin Aggregate			
end Aggregate			

---

### Encrypted Password <CryptPswd>

Encrypted Password.

Extends: [Binary128](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from Binary128			
<a href="#">ContentType</a>	Open Enum	Optional	Specified in IETF RFC 2046.
<a href="#">BinLength</a>	Long	Required	Binary Data Length
<a href="#">BinData</a>	Raw Binary Data	Required	Binary Data
end Elements from Binary128			
begin Aggregate			
end Aggregate			

---

## Encrypted Password <CryptSecret>

Positional list of customer-entered data corresponding to each secret prompt provided through the <BillerRec> aggregate. Typical uses are mother's maiden name, tax id, etc.

Extends: [Binary128](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from Binary128			
<a href="#">ContentType</a>	Open Enum	Optional	Specified in IETF RFC 2046.
<a href="#">BinLength</a>	Long	Required	Binary Data Length
<a href="#">BinData</a>	Raw Binary Data	Required	Binary Data
end Elements from Binary128			
begin Aggregate			
end Aggregate			

---

## Encryption Type. <CryptType>

Used to indicate whether or not passwords and comparable authentication information are encrypted to provide security above and beyond the secure channel established between client and server.

Must be supported in list of encryption types in the Service Provider's Service Profile.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
None	None. The client provides no encryption. The application relies entirely on channel level security and sends passwords in clear text.	N
PKCS#1	Public Key Cryptography Standards# 1. The RSA Cryptography Standard that enables a password or similar authentication	N

	information (up to 117 bytes) to be encrypted by the client or server and passed as a 128-byte binary element that may be decrypted by the receiver. PKCS#7 ? Public-Key Cryptography Standard format #7 v1.5	
PKCS#7	<SecObjValue> will be formatted as a DER encoded representation of the <b>ContentInfo</b> structure defined Public-Key Cryptography Standard format #7 v1.5	N
PKCS#10	Public-Key Cryptography Standard format #10 v1.5	N
ECB	Data Encryption Algorithm Electronic Codebook Mode	N
CBC	Data Encryption Algorithm Cipher Block Chaining	N
CFB	Data Encryption Algorithm Cipher Feedback	N
OFB	Data Encryption Algorithm Output Feedback	N
TECB	Triple Data Encryption Algorithm Electronic Code Book	N
TCBC	Triple Data Encryption Algorithm Cipher Block Chaining	N
TCBC-I	Triple Data Encryption Algorithm Cipher Block Chaining ? Interleaved	N
TCFB	Triple Data Encryption Algorithm Cipher Feedback	N
TCFB-P	Triple Data Encryption Algorithm Cipher Feedback Pipelined	N
TOFB	Triple Data Encryption Algorithm Output Feedback	N
TOFB-I	Triple Data Encryption Algorithm Output Feedback Interleaved	N
AECB	Advanced Encryption Standard Cipher Feedback	N
ACBC	Advanced Encryption Standard Cipher Block Chaining	N
ACFB	Advanced Encryption Standard Cipher Feedback	N
AOFB	Advanced Encryption Standard Output Feedback	N
ACM	Advanced Encryption Standard Counter Mode	N
RSA#1	The <SecObjValue> will be formatted as a DER encoded representation of the <b>ContentInfo</b> structure defined within PKCS#7. This <b>ContentInfo</b> structure will contain an inner most <b>ContentType</b> of type Data. This data will be encrypted using the RSAES-PKCS1-v1.5 encryption scheme	N
TR-31	The CryptType can be derived from the SecObjValue.	N

---

### CSP Customer name and address information Required <CSPCustInfoReq>

CSP Customer Name and Address Information Required. If set to True, the Biller requires that the Customer name and address be sent with an account activation. This would be in addition to the name and address as known to the biller. If set to False or omitted, the customer name and address is not required in the account activation.

Datatype: **Boolean**

---

**Card (customer) service phone number <CSPhoneNum>**

Datatype: **Phone Number**

---

**Customer Service Provider Reference Identifier <CSPRefld>**

Customer Service Provider Reference Identifier <CSPRefld> and Service Provider Reference Identifier <SPRefld> are typically optional elements that allow both the CSP and SP to return message reference numbers for a message. These identifiers provide permanent reference for the message and may be used by the customer in reporting problems to Customer Service.

The reference identifiers may be different for different methods applied to a given object. For example, the reference identifier in the <PmtAddRs> may be different from the reference identifier in a subsequent <PmtModRs> applied to the same payment. Therefore, it is not safe to assume that the reference identifiers may be used to uniquely identify a particular instance of an object (such as a payment).

Datatype: **NC-36**

---

**Currency Amount <CurAmt>**

All monetary amounts in the IFX Specification are handled with the Currency Amount data type. When included, this data type contains a decimal value for the amount, an optional currency code.

Extended By: [AlertAmt](#), [AmtX](#), [AmtY](#), [AnnualIncome](#), [ArbitrationAmt](#), [BalAmt](#), [CashAmt](#), [ChargebackAmt](#), [ChkCourtesyAmt](#), [ChkEnteredAmt](#), [CreditorCurAmt](#), [DebtorCurAmt](#), [DisputeAmt](#), [DomXferFeeCurAmt](#), [FeeOvrdAmt](#), [FinalCurAmt](#), [FinancialAmt](#), [HighCurAmt](#), [InitialAmount](#), [InitialCurAmt](#), [InsPaidCurAmt](#), [InterestRateYield](#), [IntlXferFeeCurAmt](#), [InvoicePremium](#), [LastDepCurAmt](#), [LastPmtCurAmt](#), [LastTrnAmt](#), [LastYrInsPaidCurAmt](#), [LastYrTaxPaidCurAmt](#), [LimitAmt](#), [LOCLimit](#), [LowCurAmt](#), [MaxCurAmt](#), [MinAmtDue](#), [MinCurAmt](#), [MinPmt](#), [NetCurAmt](#), [NetSessionTotals](#), [NextPmt](#), [OrigCurAmt](#), [OvrdAmt](#), [PaidCurAmt](#), [PassbkLastBalPrinted](#), [PrepayPenalty](#), [PrevYrCurAmt](#), [RegPmt](#), [RepresentmentAmt](#), [ResolveAmt](#), [SignatureAmtLimit](#), [StmtRunningBal](#), [TaxPaidCurAmt](#), [TotalCurAmt](#), [WriteOffAmt](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">Amt</a>	Decimal	Optional	Amount.
<a href="#">CurCode</a>	Aggregate	Optional	Currency Code
end Aggregate			

---

**Currency Amount Range <CurAmtRange>**

Used as selection criteria in inquiry messages to limit the results based on a currency range.

The <CurAmtRange> aggregate contains two optional fields: <LowCurAmt> and <HighCurAmt>. The following rules are established for these fields:

- If <LowCurAmt> but not <HighCurAmt> is supplied, then the search must match amounts that are greater than or equal to <LowCurAmt>.
- If <HighCurAmt> is supplied but not <LowCurAmt>, then the search must match amounts that are smaller than or equal to the <HighCurAmt>.
- If both amounts are supplied, then the search must match amounts that are between or equal to the two amounts supplied.
- If a client wishes to search for a specific amount, then both <LowCurAmt> and <HighCurAmt> should be supplied and set to the same value.
- Both amounts must be of the same currency.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-or		Required	
<a href="#">LowCurAmt</a>	Aggregate	Required	Selection Low Amount.
<a href="#">HighCurAmt</a>	Aggregate	Required	Selection End Amount.
end-or			
end Aggregate			

---

## Currency Code <CurCode>

The CurrencyCode is used to express Currency codes and the authoritative source that defines them.

Extended By: [BaseCurCode](#), [ContraCurCode](#), [DevCdmBinCurCode](#), [DevCimBinCurCode](#), [DevCimNoteCurCode](#), [HomeCurCode](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">CurCodeType</a>	Open Enum	Optional	Currency Code Type  Valid values include: ISO4217-Alpha, ISO4217-Numeric
<a href="#">CurCodeValue</a>	Open Enum	Required	Currency Code Value
end Aggregate			

---

## Currency Code Type <CurCodeType>

Currency Code Type

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
ISO4217-Alpha	ISO 3 character currency code.	Y
ISO4217-Numeric		N

---

## Currency Code Value <CurCodeValue>

Currency Code Value

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
-------	-------------	------------

---

### Currency conversion indicator <CurConvertRule>

Datatype: **Closed Enum**

## Enumerated Values

Value	Description	Is default
Direct	The amount of base currency per unit of foreign currency.	N
Indirect	The amount of foreign currency per unit of base currency.	N

---

### Currency Exchange Rate <CurRate>

Expressed as the ratio of the default account currency <CurAmt> to the transaction currency.

Datatype: **Decimal**

---

### Current Record Limit <CurRecLimit>

The maximum records that should be returned in response to this request. This is the limit that should be applied to the single response message. This limit, if present, must be smaller than the MaxRecLimit.

Default value is MaxRecLimit (or unbounded if MaxRecLimit is not present).

Note that this number represents the maximum number of records that the client is able to handle in a single message. The actual number of records



selected could be more than this (up to MaxRecLimit) or less than this, depending on the number of available records matching the selection criteria. If the result set is more than this the server must return a Cursor or Token to allow the client to continue processing the result set.

Datatype: **Long**

### Cursor Handle <Cursor>

Optionally used in the Records Control Input and Output Aggregates <RecCtrlIn> <RecCtrlOut> to allow the server to provide a pointer to a cursor which contains records which matched the requested selection criteria if the server is not able to return all matching records in a single response message. In this case, the client may issue another request message to retrieve additional records that matched the selection criteria.

Extends: [Binary](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from Binary			
<a href="#">ContentType</a>	Open Enum	Optional	Specified in IETF RFC 2046.
<a href="#">BinLength</a>	Long	Required	Identifies the size of the binary data in number of bytes.
<a href="#">BinData</a>	Raw Binary Data	Required	Binary data.
end Elements from Binary			
begin Aggregate			
end Aggregate			

### Customer Language Preference <CustLangPref>

The value of <CustLangPref> follows the definition of language identifiers in IETF RFC 1766. It is in the form of the two letter language code defined by ISO 639, followed by a hyphen, followed by the two letter country code defined by ISO 3166 or a local dialect name of up to 8 characters. Note that RFC 1766 states that values for <CustLangPref> are case insensitive.

Datatype: **NC-17**

---

### Customer Name Required Indicator <CustNameReqd>

Customer Name Required Indicator. If set to True, the Service Provider requires that <CustName> be included in <CustAddRq>.

Datatype: **Boolean**

---

### Customer Payee Request Message <CustPayeeAddRq>

Allows client to create a customer-defined payee.

See the matching response message [CustPayeeAddRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">CustPayeeInfo</a>	Aggregate	Required	Customer Payee Information Aggregate
end Aggregate			

---

### Customer Payee Response Message <CustPayeeAddRs>

Response to request from client to create a customer-defined payee.

See the matching request message [CustPayeeAddRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			

begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">CustPayeeRec</a>	Aggregate	Required	Customer Payee Record Aggregate
<a href="#">CustPayeeStatusRec</a>	Aggregate	Required	Customer Payee Status Record Aggregate
end-xor			
end-block			
end Aggregate			

---

### Customer Payee Request Message <CustPayeeAudRq>

See the matching response message [CustPayeeAudRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
<a href="#">DtRange</a>	Aggregate	Optional	Date Range
<a href="#">Method</a>	Closed Enum	Optional Repeating	Method  Valid values are limited to: Add, Advise, AuthMod, Can, Del, Mod, StatusMod
<a href="#">CustPayeeKeys</a>	Aggregate	Optional Repeating	Customer Payee Keys Aggregate
end Aggregate			

---

### Customer Payee Response Message <CustPayeeAudRs>

See the matching request message [CustPayeeAudRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">CustPayeeRsMsg</a>	Aggregate	Optional Repeating	Customer PayeeResponse Message Record Aggregate
end-block			
end Aggregate			

### Customer Payee Request Message <CustPayeeDelRq>

A client uses the Customer Payee Delete message to delete a Payee from a Customer Payee list on the server. If the <CascadeDel> element is set to *True*, an error must be returned if a payee delete is attempted when payments are still pending. If this error is returned, the types of dependent objects must be communicated to the client in the response message.

A client initiates the Delete Payee message by sending a <CustPayeeDelRq> message to the server.

See the matching response message [CustPayeeDelRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">CustPayeeKeys</a>	Aggregate	Required	Customer Payee Keys Aggregate

end Aggregate

## Customer Payee Response Message <CustPayeeDelRs>

The server responds to the client's <CustPayeeDelRq> message by sending a <CustPayeeDelRs> message.

See the matching request message [CustPayeeDelRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">CustPayeeRec</a>	Aggregate	Required	Customer Payee Record Aggregate
<a href="#">CustPayeeStatusRec</a>	Aggregate	Required	Customer Payee Status Record Aggregate
end-xor			
end-block			
end Aggregate			

## Customer Payee Environment Aggregate <CustPayeeEnvr>

Customer Payee Environment Aggregate

Extends: [BaseEnvr](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseEnvr			
<a href="#">CreatedDt</a>	DateTime	Required	Created Date/Time. The date/time the

			object was created.
<a href="#">CreateRefIdent</a>	NC-36	Optional	An identifier used to uniquely identify the creation of this object to the system that created the object. This will usually be a link to reference information used in creating the object.
<a href="#">ClientCreateDt</a>	DateTime	Optional	The created date/time as reported by the client. This can vary from the object creation date/time due to time zone differences, communication delays, etc
<a href="#">ClientBusinessDt</a>	DateTime	Optional	The date/time that the client recorded this object for operational purposes. This date/time will often be used to manage the availability of information or funds.
<a href="#">LastUpdateDt</a>	DateTime	Optional	Last update Date/Time. The date/time the object was created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LastUpdateRqUID</a>	UUID	Optional	Last update RqUID. The RqUID from the message that resulted in the object being created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LoginName</a>	C-40	Optional	The login name (or Id) of the individual that authorized this object to be created. This is typically used when the object is created on behalf of its owner by someone who is not normally represented as a Party (i.e., an employee or agent).
<a href="#">PartyKeys</a>	Aggregate	Optional	Reference to the Party that this object is owned by or authorized by.
<a href="#">CardKeys</a>	Aggregate	Optional	This is dependent on Card proposal. Currently this is implemented as the CardLogicalData aggregate.
<a href="#">PassbkKeys</a>	Aggregate	Optional	Currently PassbkAcceptData.
<a href="#">NetworkTrnData</a>	Aggregate	Optional	Network Transaction Information. Identification and location of the terminal from which the message originates.
<a href="#">ServerTerminalSeqNum</a>	NC-36	Optional	Server Terminal Sequence Number. A terminal sequence number generated by the server to identify this object. This number is used in ATM and POS environments to uniquely identify transactions (with terminal name and date) for transaction management.
<a href="#">PointOfServiceData</a>	Aggregate	Optional	The Point of Service Data. This

			aggregate contains information about the environment in which this message originated.
<a href="#">ClientTerminalSeqNum</a>	NC-36	Optional	Client Terminal Sequence Number. A terminal sequence number generated by the client to identify this object. This number is used in ATM, POS, Branch, Call Center and Teller environments to uniquely identify transactions at the client (with terminal name and date). This number is often required when requesting supporting documentation related to a customer transaction.
end Elements from BaseEnvr			
begin Aggregate			
end Aggregate			

---

### Customer Payee Identifier <CustPayeeId>

Customer Payee Identifier

Datatype: **Identifier**

---

### Customer Payee Information Aggregate <CustPayeeInfo>

Customer Payee Information Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">Name</a>	C-40	Optional	<p>Payee Name. Initially assigned by the customer when the Payee is added. May be modified by the client.</p> <p>Should contain Biller Name &lt;BillerName&gt; in the case of a Biller. For more information, see the above table.</p> <p>Does not affect the behavior of interbank transfer payments, but recommended</p>

			usage is destination account name for interbank transfer payees.
<a href="#">Nickname</a>	C-40	Optional	Payee Nickname. Optionally assigned by the customer. Server always echoes it in immediate response if received in a request. Pay provider may indicate support for longer-term storage of nicknames in the Service Profile. May be modified by the client.
begin-xor		Required	
<a href="#">StdPayeeRef</a>	Aggregate	Required	Standard Payee Reference Aggregate
<a href="#">FSPayee</a>	Aggregate	Required	Fully-Specified Payee Aggregate.
<a href="#">XferPayee</a>	Aggregate	Required	Transfer Payee Aggregate.
end-xor			
<a href="#">PayerAcctNum</a>	C-32	Optional	Payer Account Number
<a href="#">PayeeAcctNum</a>	C-32	Optional	Payee Account Number
<a href="#">DfltPmtData</a>	Aggregate	Optional	Default Payment Information Aggregate. Used to add default payment information when adding a new payee. This would not be included when paying a bill unless the user was also adding a new payee at the same time.
<a href="#">LastPmtCurAmt</a>	Aggregate	Optional	Last Payment Amount
<a href="#">LastPmtDt</a>	Date	Optional	Last Payment Date
end Aggregate			

---

### Customer Payee Request Message <CustPayeeInqRq>

A client uses the Payee Inquiry message to obtain records from the Customer Payee list on a server. Clients that store a local copy of the Customer Payee list may use this message to "refresh" the Payee list.

See the matching response message [CustPayeeInqRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
	Aggregate		



<a href="#">DocCtrlIn</a>		Optional	Document Control Input
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
begin-xor		Optional Repeating	
<a href="#">CustPayeeSel</a>	Aggregate	Required	Customer Payee Selection Aggregate
<a href="#">RecSelect</a>	IfxPath	Required	Record Select
end-xor			
end Aggregate			

---

### Customer Payee Response Message <CustPayeeInqRs>

See the matching request message [CustPayeeInqRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">DocCtrlOut</a>	Aggregate	Optional	Document Control Output
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">CustPayeeRec</a>	Aggregate	Required Repeating	Customer Payee Record Aggregate
end-block			
end Aggregate			

---

### Customer Payee Keys Aggregate <CustPayeeKeys>

Customer Payee Keys Aggregate

Extends: [BaseKeys](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseKeys			
end Elements from BaseKeys			
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
begin-xor		Required	
<a href="#">CustPayeeId</a>	Identifier	Required	Customer Payee Identifier
end-xor			
end Aggregate			

---

**Customer Payee Request Message <CustPayeeModRq>**

The Modify Payee message allows a client to change information about a payee on a customer's payee list on the Pay provider's server.

The <CustPayeeModRq> message is sent by a client to modify a Payee record on a customer's Payee list on the server.

See the matching response message [CustPayeeModRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">CustPayeeKeys</a>	Aggregate	Required	Customer Payee Keys Aggregate
begin-block		Required Repeating	
<a href="#">CustPayeeInfo</a>	Aggregate	Required	Customer Payee Information Aggregate
begin-xor		Optional Repeating	
<a href="#">DelElements</a>	lfxPath	Required	An lfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to delete. It is an error if one attempts to delete Required fields.
<a href="#">UpdElements</a>	lfxPath	Required	An lfxPath (relative to a base of this IFX

			object's Info aggregate) which indicates which element to update. The new value of the updated element is in the accompanying xxxInfo aggregate.
<a href="#">NewElements</a>	lfxPath	Required	An lfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to add. The new value of the new elements is in the accompanying xxxInfo aggregate.
end-xor			
end-block			
end Aggregate			

### Customer Payee Response Message <CustPayeeModRs>

The server sends the <CustPayeeModRs> message in response to a <CustPayeeModRq> message from a client.

See the matching request message [CustPayeeModRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">CustPayeeRec</a>	Aggregate	Required	Customer Payee Record Aggregate
<a href="#">CustPayeeStatusRec</a>	Aggregate	Required	Customer Payee Status Record Aggregate
end-xor			
end-block			
end Aggregate			

## Customer Payee Record Aggregate <CustPayeeRec>

Customer Payee Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">CustPayeeId</a>	Identifier	Required	Customer Payee Identifier
<a href="#">CustPayeeInfo</a>	Aggregate	Required	Customer Payee Information Aggregate
<a href="#">CustPayeeEnvr</a>	Aggregate	Optional	Customer Payee Environment Aggregate
<a href="#">CustPayeeStatus</a>	Aggregate	Required	Customer Payee Status Aggregate
end Aggregate			

---

## Customer Payee Reference Aggregate <CustPayeeRef>

Customer Payee Reference Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">CustPayeeKeys</a>	Aggregate	Required	Customer Payee Keys Aggregate
<a href="#">CustPayeeRec</a>	Aggregate	Required	Customer Payee Record Aggregate
<a href="#">CustPayeeInfo</a>	Aggregate	Required	Customer Payee Information Aggregate
end-xor			
end Aggregate			

---

## Customer PayeeResponse Message Record Aggregate <CustPayeeRsMsg>

Customer PayeeResponse Message Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">MsgRecDt</a>	Timestamp	Optional	Audit Record Creation Date
begin-xor		Required	
<a href="#">CustPayeeAddRs</a>	Aggregate	Required	Customer Payee Add Response
<a href="#">CustPayeeModRs</a>	Aggregate	Required	Customer Payee Modify Response
<a href="#">CustPayeeDelRs</a>	Aggregate	Required	Customer Payee Delete Response
<a href="#">CustPayeeInqRs</a>	Aggregate	Required	Customer Payee Inquiry Response
end-xor			
end Aggregate			

---

**Customer Payee Selection Aggregate <CustPayeeSel>**

Customer Payee Selection Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required Repeating	
<a href="#">CustPayeeKeys</a>	Aggregate	Required	Customer Payee Keys Aggregate
<a href="#">PayeeType</a>	Closed Enum	Required Repeating	Payee Type Valid values are limited to: FSPayee, Std, Xfer
end-xor			
end Aggregate			

---

**Customer Payee Status Aggregate <CustPayeeStatus>**

Customer Payee Status Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">CustPayeeStatusCode</a>	Open Enum	Required	Customer Payee Status Code  Valid values include: Active, Deleted, Inactive , Pending, Valid
<a href="#">StatusDesc</a>	C-255	Optional	Status Description
<a href="#">EffDt</a>	DateTime	Optional	Effective Date Time
<a href="#">ApprovalIdent</a>	NC-36	Optional	Approval Identifier
<a href="#">StatusModBy</a>	Open Enum	Optional	Status Modified By  Valid values include: BPP, BPPSR, BSP, BSPSR, CPP, CPPSR, CSP, CSPSR, Customer, FI, PSP
end Aggregate			

---

**Customer Payee Status Code <CustPayeeStatusCode>**

Status of Payee.

Datatype: **Open Enum**

**Enumerated Values**

Value	Description	Is default
Valid		N
Deleted		N
Active		N
Inactive		N
Pending		N

---

**Customer Payee Status Record Aggregate <CustPayeeStatusRec>**

Customer Payee Status Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">CustPayeeId</a>	Identifier	Required	Customer Payee Identifier
<a href="#">CustPayeeStatus</a>	Aggregate	Required	Customer Payee Status Aggregate
end Aggregate			

---

**Customer Payee Request Message <CustPayeeSyncRq>**

The Customer Payee Synchronization message is used by a client for retrieving a list of changes to a customer's Payee list. This message may be used by clients that keep local copies of a customer's Payee messages against databases of Payee messages kept by Pay providers. Typically results of this message tell a client what the customer has done using other clients since they last used this one, but it may also inform a client about changes the Pay provier made (e.g. converted a Payee from a Fully-Specified Payee to a Biller.)

See the matching response message [CustPayeeSyncRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
<a href="#">CustPayeeKeys</a>	Aggregate	Optional Repeating	Customer Payee Keys Aggregate
end Aggregate			

---

**Customer Payee Response Message <CustPayeeSyncRs>**

See the matching request message [CustPayeeSyncRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">CustPayeeRsMsg</a>	Aggregate	Optional Repeating	Customer PayeeResponse Message Record Aggregate
end-block			
end Aggregate			

---

**Cutoff for Daily Processing <CutoffTm>**

This is the latest time a customer may submit a request for processing today.

Datatype: **Time**

---

**Daily Accrual <DailyAccrual>**

Indicates how 'daily' is determined when interest is accrued on a daily basis.

Datatype: **Open Enum**

**Enumerated Values**

Value	Description	Is default
Standard360	Interest Rate is divided by 360	N
Actual365	Interest Rate is divided by 365	N
Actual366	Interest Rate is divided by 366 on leap years otherwise is	N



---

### Date Type <DateType>

When more than one date is available for an object, this aggregate provides the ability to identify which date should be used.

Datatype: **C-80**

---

### Day Of Month <DayOfMonth>

Numeric value representing the day of the month of occurrence.

Datatype: **Closed Enum**

## Enumerated Values

Value	Description	Is default
1		N
2		N
3		N
4		N
5		N
6		N
7		N
8		N
9		N
10		N
11		N
12		N
13		N
14		N
15		N
16		N
17		N
18		N
19		N
20		N

21		N
22		N
23		N
24		N
25		N
26		N
27		N
28		N
29		N
30		N
31		N

---

### Day Of Week <DayOfWeek>

Specifies day of week of recurrence.

Datatype: **Closed Enum**

### Enumerated Values

Value	Description	Is default
Monday		N
Tuesday		N
Wednesday		N
Thursday		N
Friday		N
Saturday		N
Sunday		N

---

### Days Call <DaysCall>

Days Call. The number of business days' notice required for withdrawal.  
Required if <TermUnits>=Indefinite.

Datatype: **Long**

---

**Days Rented <DaysRented>**

The number of days that the vehicle was rented.

Datatype: **Long**

---

**Days To Post Electronic Payment <DaysToEPost>**

Days to post an electronic payment. The maximum number of days between receipt of an electronic payment by the biller or BPP and posting to the customer's account.

Datatype: **Long**

---

**Days To Pay <DaysToPay>**

Days to Pay. Minimum number of business days needed to process a payment. Assigned by the Pay provider. Cannot be changed by the client.

Datatype: **Long**

---

**Withdrawal Date Offset <DaysWith>**

Withdrawal Date Offset. Within the Pay Service Profile, used in determination of date to withdraw funds from customer account. Usage is <DueDt> -<DaysToPay> + provides withdrawal date.

Note: If the value of is -1 then the withdrawal date is the same as <DueDt>.

Datatype: **Long**

---

## Debit Request Message <DebitAddRq>

The Debit Add message is used for withdrawals at ATM and bank tellers. It is also used for purchases from a POS device.

See the matching response message [DebitAddRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">DebitInfo</a>	Aggregate	Required	Debit Information Aggregate
end Aggregate			

---

## Debit Response Message <DebitAddRs>

Debit Add Message. Used to debit money from an account.

See the matching request message [DebitAddRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">DebitRec</a>	Aggregate	Required	Debit Record Aggregate
<a href="#">DebitStatusRec</a>	Aggregate	Required	Debit Status Record Aggregate
end-xor			

end-block
end Aggregate

---

### Debit Request Message <DebitAdviseRq>

Debit Advise Message.

See the matching response message [DebitAdviseRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
begin-xor		Required	
<a href="#">DebitRec</a>	Aggregate	Required	Debit Record Aggregate
<a href="#">DebitStatusRec</a>	Aggregate	Required	Debit Status Record Aggregate
end-xor			
end Aggregate			

---

### Debit Response Message <DebitAdviseRs>

Debit Advise Message.

See the matching request message [DebitAdviseRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			

begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">DebitRec</a>	Aggregate	Required	Debit Record Aggregate
<a href="#">DebitStatusRec</a>	Aggregate	Required	Debit Status Record Aggregate
end-xor			
end-block			
end Aggregate			

---

### Debit Request Message <DebitAudRq>

See the matching response message [DebitAudRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
<a href="#">DtRange</a>	Aggregate	Optional	Date Range
<a href="#">Method</a>	Closed Enum	Optional Repeating	Method Valid values are limited to: Add, Advise, AuthMod, Can, Del, Mod, StatusMod
<a href="#">DebitKeys</a>	Aggregate	Optional Repeating	Debit Keys Aggregate
end Aggregate			

---

### Debit Response Message <DebitAudRs>

See the matching request message [DebitAudRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes

begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">DebitRsMsg</a>	Aggregate	Optional Repeating	DebitResponse Message Record Aggregate
end-block			
end Aggregate			

---

### Debit Request Message <DebitCanRq>

See the matching response message [DebitCanRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">DebitKeys</a>	Aggregate	Required	Debit Keys Aggregate
end Aggregate			

---

### Debit Response Message <DebitCanRs>

See the matching request message [DebitCanRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			

begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">DebitRec</a>	Aggregate	Required	Debit Record Aggregate
<a href="#">DebitStatusRec</a>	Aggregate	Required	Debit Status Record Aggregate
end-xor			
end-block			
end Aggregate			

---

### Debit Credit Indicator <DebitCredit>

Defines if the authorization is a Debit or Credit to the account.

Datatype: **Closed Enum**

### Enumerated Values

Value	Description	Is default
Debit	Debit	N
Credit	Credit	N

---

### Debit Environment Aggregate <DebitEnvr>

Debit Environment Aggregate

Extends: [BaseEnvr](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseEnvr			
<a href="#">CreatedDt</a>	DateTime	Required	Created Date/Time. The date/time the object was created.



<a href="#">CreateRefIdent</a>	NC-36	Optional	An identifier used to uniquely identify the creation of this object to the system that created the object. This will usually be a link to reference information used in creating the object.
<a href="#">ClientCreateDt</a>	DateTime	Optional	The created date/time as reported by the client. This can vary from the object creation date/time due to time zone differences, communication delays, etc
<a href="#">ClientBusinessDt</a>	DateTime	Optional	The date/time that the client recorded this object for operational purposes. This date/time will often be used to manage the availability of information or funds.
<a href="#">LastUpdateDt</a>	DateTime	Optional	Last update Date/Time. The date/time the object was created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LastUpdateRqUID</a>	UUID	Optional	Last update RqUID. The RqUID from the message that resulted in the object being created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LoginName</a>	C-40	Optional	The login name (or Id) of the individual that authorized this object to be created. This is typically used when the object is created on behalf of its owner by someone who is not normally represented as a Party (i.e., an employee or agent).
<a href="#">PartyKeys</a>	Aggregate	Optional	Reference to the Party that this object is owned by or authorized by.
<a href="#">CardKeys</a>	Aggregate	Optional	This is dependent on Card proposal. Currently this is implemented as the CardLogicalData aggregate.
<a href="#">PassbkKeys</a>	Aggregate	Optional	Currently PassbkAcceptData.
<a href="#">NetworkTrnData</a>	Aggregate	Optional	Network Transaction Information. Identification and location of the terminal from which the message originates.
<a href="#">ServerTerminalSeqNum</a>	NC-36	Optional	Server Terminal Sequence Number. A terminal sequence number generated by the server to identify this object. This number is used in ATM and POS environments to uniquely identify transactions (with terminal name and date) for transaction management.
<a href="#">PointOfServiceData</a>	Aggregate	Optional	The Point of Service Data. This aggregate contains information about the environment in which this

			message originated.
<a href="#">ClientTerminalSeqNum</a>	NC-36	Optional	Client Terminal Sequence Number. A terminal sequence number generated by the client to identify this object. This number is used in ATM, POS, Branch, Call Center and Teller environments to uniquely identify transactions at the client (with terminal name and date). This number is often required when requesting supporting documentation related to a customer transaction.
end Elements from BaseEnvr			
begin Aggregate			
end Aggregate			

---

### Debit Identifier <DebitId>

Debit Identifier

Datatype: **Identifier**

---

### Debit Information Aggregate <DebitInfo>

Debit Information Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">DebitType</a>	Open Enum	Optional	The type of the debit transaction.  Defined Values:  CashWithdrawal, StampDispense, TicketDispense, ValueCouponDispense, CreditCardAdvance, CardVerification, TransactionFee, MerchandisePurchase, MerchandisePurchaseCashBack.
<a href="#">CompositeCurAmt</a>	Aggregate	Required Repeating	The amounts of the debit transaction and appropriate fees.

<a href="#">AcctRef</a>	Aggregate	Optional	Account Reference Aggregate
<a href="#">AthKeys</a>	Aggregate	Optional	Debit Authorization Identifier. Assigned by the server at the time the Debit Authorization is first added. This is used to relate a debit to a previously authorized debit authorization object
<a href="#">TrnRqUID</a>	UUID	Optional	Transaction RqUID. If this debit is used as a fee for a transaction (e.g. fee for a balance inquiry) then this element will contain the RqUID of the transaction (e.g. the balance inquiry). If this debit is used as a cash withdrawal for a deposit transaction such as deposit with cash back then this element will contain the RqUID of credit message/deposit transaction.
<a href="#">ClientChgCode</a>	Open Enum	Optional	Client Change Code. This indicates the reason why a Debit was for a different amount from the original authorization for the debit.  Defined Values:  None, ConsumerCancelled, TerminalExceptionAmountKnown, TerminalExceptionAmountUnknown, ConsumerExceptionAmountKnown, ConsumerExceptionAmountUnknown, PurchaseAdjustment, ConsumerDeclined, ConsumerTimeout
end Aggregate			

---

## Debit Request Message <DebitInqRq>

See the matching response message [DebitInqRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">DocCtrlIn</a>	Aggregate	Optional	Document Control Input
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
		Optional	

begin-xor		Repeating	
<a href="#">DebitSel</a>	Aggregate	Required	Debit Selection Aggregate
<a href="#">RecSelect</a>	IfxPath	Required	Record Select
end-xor			
end Aggregate			

---

### Debit Response Message <DebitInqRs>

See the matching request message [DebitInqRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">DocCtrlOut</a>	Aggregate	Optional	Document Control Output
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">DebitRec</a>	Aggregate	Required Repeating	Debit Record Aggregate
end-block			
end Aggregate			

---

### Debit Keys Aggregate <DebitKeys>

Debit Keys Aggregate

Extends: [BaseKeys](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes

begin Elements from BaseKeys			
end Elements from BaseKeys			
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
begin-xor		Required	
<a href="#">DebitId</a>	Identifier	Required	Debit Identifier
end-xor			
end Aggregate			

## Debit Request Message <DebitModRq>

See the matching response message [DebitModRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">DebitKeys</a>	Aggregate	Required	Debit Keys Aggregate
begin-block		Required Repeating	
<a href="#">DebitInfo</a>	Aggregate	Required	Debit Information Aggregate
begin-xor		Optional Repeating	
<a href="#">DelElements</a>	lfxPath	Required	An lfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to delete. It is an error if one attempts to delete Required fields.
<a href="#">UpdElements</a>	lfxPath	Required	An lfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to update. The new value of the updated element is in the accompanying xxxInfo aggregate.
<a href="#">NewElements</a>	lfxPath	Required	An lfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to add. The new value of the new elements is in the accompanying xxxInfo aggregate.

end-xor
end-block
end Aggregate

## Debit Response Message <DebitModRs>

See the matching request message [DebitModRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">DebitRec</a>	Aggregate	Required	Debit Record Aggregate
<a href="#">DebitStatusRec</a>	Aggregate	Required	Debit Status Record Aggregate
end-xor			
end-block			
end Aggregate			

## Debit Record Aggregate <DebitRec>

Debit Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
	Identifier		

<a href="#">DebitId</a>		Required	Debit Identifier
<a href="#">DebitInfo</a>	Aggregate	Required	Debit Information Aggregate
<a href="#">DebitEnvr</a>	Aggregate	Optional	Debit Environment Aggregate
<a href="#">DebitStatus</a>	Aggregate	Required	Debit Status Aggregate
end Aggregate			

---

### Debit Reference Aggregate <DebitRef>

Debit Reference Aggregate

Extends: [TrnRef](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from TrnRef			
end Elements from TrnRef			
begin Aggregate			
begin-xor		Required	
<a href="#">DebitKeys</a>	Aggregate	Required	Debit Keys Aggregate
<a href="#">DebitRec</a>	Aggregate	Required	Debit Record Aggregate
<a href="#">DebitInfo</a>	Aggregate	Required	Debit Information Aggregate
end-xor			
end Aggregate			

---

### Debit Request Message <DebitRevRq>

See the matching response message [DebitRevRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			

<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RevReasonCode</a>	Aggregate	Required	Reversal Reason Code
<a href="#">Desc</a>	C-80	Optional	Description
<a href="#">DebitRqMsg</a>	Aggregate	Required	Debit Request Message Record Aggregate
end Aggregate			

---

### Debit Response Message <DebitRevRs>

See the matching request message [DebitRevRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
end Aggregate			

---

### Debit Request Message Record Aggregate <DebitRqMsg>

Debit Request Message Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">DebitAddRq</a>	Aggregate	Required	Debit Add Request
<a href="#">DebitModRq</a>	Aggregate	Required	Debit Modify Request
<a href="#">DebitCanRq</a>	Aggregate	Required	Debit Cancel Request



<a href="#">DebitInqRq</a>	Aggregate	Required	Debit Inquiry Request
<a href="#">DebitAdviseRq</a>	Aggregate	Required	Debit Advise Request
<a href="#">DebitAudRq</a>	Aggregate	Required	Debit Audit Request
<a href="#">DebitSyncRq</a>	Aggregate	Required	Debit Synchronization Request
<a href="#">DebitStatusModRq</a>	Aggregate	Required	Debit Status Modify Request
<a href="#">RevRqUID</a>	UUID	Required	Reversal Request Unique ID
end-xor			
end Aggregate			

---

### DebitResponse Message Record Aggregate <DebitRsMsg>

DebitResponse Message Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">MsgRecDt</a>	Timestamp	Optional	Audit Record Creation Date
begin-xor		Required	
<a href="#">DebitAddRs</a>	Aggregate	Required	Debit Add Response
<a href="#">DebitModRs</a>	Aggregate	Required	Debit Modify Response
<a href="#">DebitCanRs</a>	Aggregate	Required	Debit Cancel Response
<a href="#">DebitRevRs</a>	Aggregate	Required	Debit Reversal Response
<a href="#">DebitInqRs</a>	Aggregate	Required	Debit Inquiry Response
<a href="#">DebitAdviseRs</a>	Aggregate	Required	Debit Advise Response
<a href="#">DebitStatusModRs</a>	Aggregate	Required	Debit Status Modify Response
end-xor			
end Aggregate			

---

### Debit Selection Aggregate <DebitSel>

Debit Selection Aggregate

**Datatype: Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required Repeating	
<a href="#">DebitKeys</a>	Aggregate	Required	Debit Keys Aggregate
end-xor			
end Aggregate			

---

**Debit Status Aggregate <DebitStatus>**

Debit Status Aggregate

**Datatype: Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">DebitStatusCode</a>	Open Enum	Required	Debit Status Code Valid values include: Authorized, Deleted, Held, Posted, Rejected, Valid
<a href="#">StatusDesc</a>	C-255	Optional	Status Description
<a href="#">EffDt</a>	DateTime	Optional	Effective Date Time
<a href="#">ApprovalIdent</a>	NC-36	Optional	Approval Identifier
<a href="#">StatusModBy</a>	Open Enum	Optional	Status Modified By Valid values include: BPP, BPPSR, BSP, BPSR, CPP, CPPSR, CSP, CSPSR, Customer, FI, PSP
<a href="#">StatusReason</a>	C-80	Optional	Status Reason
end Aggregate			

---

**Debit Status Code <DebitStatusCode>**

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Authorized	The debit has been authorized	N
Rejected	The debit has been rejected	N
Posted	The debit has been posted against the account	N
Valid		N
Deleted		N
Held	The debit authorization has been held	N

---

### Debit Request Message <DebitStatusModRq>

See the matching response message [DebitStatusModRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">DebitKeys</a>	Aggregate	Required	Debit Keys Aggregate
<a href="#">DebitStatus</a>	Aggregate	Required	Debit Status Aggregate
end Aggregate			

---

### Debit Response Message <DebitStatusModRs>

See the matching request message [DebitStatusModRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			

begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">DebitStatusRec</a>	Aggregate	Required	Debit Status Record Aggregate
end-block			
end Aggregate			

---

### Debit Status Record Aggregate <DebitStatusRec>

Debit Status Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">DebitId</a>	Identifier	Required	Debit Identifier
<a href="#">DebitStatus</a>	Aggregate	Required	Debit Status Aggregate
end Aggregate			

---

### Debit Request Message <DebitSyncRq>

See the matching response message [DebitSyncRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header

<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
<a href="#">DebitKeys</a>	Aggregate	Optional Repeating	Debit Keys Aggregate
end Aggregate			

---

## Debit Response Message <DebitSyncRs>

See the matching request message [DebitSyncRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">DebitRsMsg</a>	Aggregate	Optional Repeating	DebitResponse Message Record Aggregate
end-block			
end Aggregate			

---

## Debit Type <DebitType>

The type of the debit.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
CashWithdrawal	Cash was dispensed as a withdrawal from a bank account	N
StampDispense	Stamps were dispensed	N

TicketDispense	Tickets were dispensed	N
ValueCouponDispense	Coupons were dispensed	N
CreditCardAdvance	Cash was dispensed as a cash advance against a credit card	N
MerchandisePurchase	Merchandise Purchase.	N
MerchandisePurchaseCashBack	Merchandise Purchase with Cash back	N
TransactionFee	This debit is used as a fee for a transaction.	N
CardVerification	The customer?s card is to be verified.	N

---

### Debtor Account Number With Creditor <DebtorAcctNumWithCreditor>

Accounts Receivable or similar identifier assigned to this debtor/payer/customer in the creditor/payee?s accounting system.

Datatype: **NC-36**

---

### Debtor Currency Amount <DebtorCurAmt>

Currency amount expressed in the currency of debtor

Extends: [CurAmt](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from CurAmt			
<a href="#">Amt</a>	Decimal	Optional	Amount.
<a href="#">CurCode</a>	Aggregate	Optional	Currency Code
end Elements from CurAmt			
begin Aggregate			
end Aggregate			

---

### Debtor Data <DebtorData>

In payment scenarios, Debtor refers to the payer of an obligation. DebtorData contains the information about the payer.

Extended By: [UltimateDebtorData](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">PartyData</a>	Abstract Aggregate	Required	Party information. <b>Valid Aggregates are:</b> OrgData PersonData
<a href="#">DebtorAcctNumWithCreditor</a>	NC-36	Optional	Accounts Receivable or similar identifier assigned to this debtor/payer/customer in the creditor/payee's accounting system.
end Aggregate			

---

### Deceased Date <DeceasedDt>

Date of Death

Datatype: **Date**

---

### Declaration Status <DeclarationStat>

Declaration Status

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
Received		N
Requested		N
NoInformationRequired		N

---

**Decline Reason <DeclineReason>**

The reasons associated with a declined authorization response.

Datatype: **C-40**

---

**Delete Elements <DelElements>**

An lfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to delete. It is an error if one attempts to delete Required fields.

Datatype: **lfxPath**

---

**Delinquency Aging <DelinqAging>**

Delinquency Aging Aggregate. This aggregate will be deprecated in IFX release 3.x, replaced by <AcctPeriodData>.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">Aging</a>	Open Enum	Required	Number of Days Delinquent.  This aggregate will be deprecated in IFX release 3.x, replaced by <AcctPeriodData>.  Defined values: 0-30, 31-60, 61-90, 91-120, Over121.
<a href="#">CurAmt</a>	Aggregate	Required	Amount Delinquent.
end Aggregate			



---

### Delivery destination <DeliveryDestination>

Specifies where to deliver the items.

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
Branch	Branch	N
Consumer	Consumer	Y
AlternateAddress	Alternate Address	N
ParentAcct	Parent Corporate Account	N
ChildAcct	Child Corporate Account	N
ParentChildAcct	Parent and Child Corporate Account	N

---

### Delivery Date <DeliveryDt>

Date on which the correspondence was sent to the party.

Datatype: **Date**

---

### Delivery Instruction <DeliveryInstruction>

The DeliveryInstruction aggregate is used:

1. to identify delivery instructions for physical items such as a credit card or a box of checks
2. to direct the response to any xxxInqRq to an alternate electronic channel or to cause physical delivery of inquiry response on a specified media

Extended By: [PinDeliveryInstruction](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes

begin Aggregate			
<a href="#">DeliveryMethod</a>	Open Enum	Optional	Delivery Method <hr/> Valid values include: Channel, Courier, Email, Fax, HomeBank, InPerson, LocalPrinter, OverNight, Phone, Post, SMS, TwoDay, UPS, URL
<a href="#">DeliveryMedia</a>	Open Enum	Optional	Delivery Media <hr/> Valid values include: CD, Diskette, DVD, Paper Default Value: Paper
<a href="#">DeliveryDestination</a>	Open Enum	Optional	Delivery destination <hr/> Valid values include: AlternateAddress, Branch, ChildAcct, Consumer, ParentAcct, ParentChildAcct Default Value: Consumer
<a href="#">Locator</a>	Abstract Aggregate	Optional	The Locator is the delivery destination. It is most commonly a postal address and takes precedence over the Locator information in Contact. <b>Valid Aggregates are:</b> Email PhoneNum PostAddr
<a href="#">Contact</a>	Aggregate	Optional	Contact
end Aggregate			

### Delivery Media <DeliveryMedia>

Delivery media used for non-channel delivery. Defined values: CD, Diskette, DVD, Paper, default value is Paper.

This field is only meaningful when the DeliveryMethod is not Channel. This field along with the DeliveryMethod

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
CD		N
Diskette		N
DVD		N
Paper		Y

---

## Delivery Method <DeliveryMethod>

Usage of values other than Channel are subject to implementation guides or other multilateral agreements.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Channel	Same channel as input (e.g. Web, PFM, VRM) if physically realizable.	Y
Courier	Delivery via courier	N
Email	Delivery via Electronic mail	N
Fax	Delivery via Fascimile	N
HomeBank	Delivery via Home Banking	N
InPerson	Delivery In Person	N
OverNight	Overnight delivery	N
Phone	Delivery via Phone	N
Post	Postal service or private service without any special handling.	N
TwoDay	2nd day delivery	N
UPS	Delivery via UPS	N
URL	Delivery to a URL	N
LocalPrinter	The information will be delivered to the customer via a printer attached to the IFX client device.	N
SMS	Delivery via SMS Text	N

---

## Deposit Account Data <DepAcctData>

Used to maintain and retrieve data specific to deposit type products.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">AcctHashValue</a>	NC-22	Optional	Account Hash Value
<a href="#">SignatureReqd</a>	Aggregate	Optional Repeating	Signature Required

<a href="#">SignatureCode</a>	Open Enum	Optional	Signature Code Valid values include: Missing, OnlineSignatureCaptured, SignatureCardExpired, SignatureCardOnFile
<a href="#">IntDispData</a>	Aggregate	Optional	Interest Disposition Data
<a href="#">RetirementPlanIdent</a>	NC-36	Optional	Retirement Plan Identification
<a href="#">RenewalOption</a>	Open Enum	Optional	Renewal Option Valid values include: AutomaticRenewal, NoRenewalAllowed, RenewAtCurrentRate
end Aggregate			

---

#### **Departure Airport <DepartureAirport>**

The departure airport or railway name's standard abbreviation.

Datatype: **C-5**

---

#### **Departure Date <DepartureDt>**

The date of passenger's departure.

Datatype: **Date**

---

#### **Departure Time <DepartureTime>**

The time of departure provided by the airline or railway, per trip leg.

Datatype: **Time**

---

## Deposit Book Order Request Message <DepBkOrdAddRq>

The client must specify a client identifier, account identifier, number of deposit slips, deposit book style, and delivery method when ordering a Deposit Book.

See the matching response message [DepBkOrdAddRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">DepBkOrdInfo</a>	Aggregate	Required	Deposit Book Order Information Aggregate
end Aggregate			

---

## Deposit Book Order Response Message <DepBkOrdAddRs>

Deposit Book Order Add. Used to order deposit books.

See the matching request message [DepBkOrdAddRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">DepBkOrdRec</a>	Aggregate	Required	Deposit Book Order Record Aggregate
	Aggregate		

<a href="#">DepBkOrdStatusRec</a>		Required	Deposit Book Order Status Record Aggregate
end-xor			
end-block			
end Aggregate			

---

### Deposit Book Order Request Message <DepBkOrdAdviseRq>

See the matching response message [DepBkOrdAdviseRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
begin-xor		Required	
<a href="#">DepBkOrdRec</a>	Aggregate	Required	Deposit Book Order Record Aggregate
<a href="#">DepBkOrdStatusRec</a>	Aggregate	Required	Deposit Book Order Status Record Aggregate
end-xor			
end Aggregate			

---

### Deposit Book Order Response Message <DepBkOrdAdviseRs>

See the matching request message [DepBkOrdAdviseRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier

<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">DepBkOrdRec</a>	Aggregate	Required	Deposit Book Order Record Aggregate
<a href="#">DepBkOrdStatusRec</a>	Aggregate	Required	Deposit Book Order Status Record Aggregate
end-xor			
end-block			
end Aggregate			

---

### Deposit Book Order Delete Request <DepBkOrdDelRq>

Deposit Book Order Delete Request

See the matching response message [DepBkOrdDelRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">DepBkOrdKeys</a>	Aggregate	Required	Deposit Book Order Keys Aggregate
end Aggregate			

---

### Deposit Book Order Delete Response <DepBkOrdDelRs>

Deposit Book Order Delete Response

See the matching request message [DepBkOrdDelRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			

begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">DepBkOrdRec</a>	Aggregate	Required	Deposit Book Order Record Aggregate
<a href="#">DepBkOrdStatusRec</a>	Aggregate	Required	Deposit Book Order Status Record Aggregate
end-xor			
end-block			
end Aggregate			

## Deposit Book Order Environment Aggregate <DepBkOrdEnvr>

Deposit Book Order Environment Aggregate

Extends: [BaseEnvr](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseEnvr			
<a href="#">CreatedDt</a>	DateTime	Required	Created Date/Time. The date/time the object was created.
<a href="#">CreateRefIdent</a>	NC-36	Optional	An identifier used to uniquely identify the creation of this object to the system that created the object. This will usually be a link to reference information used in creating the object.
<a href="#">ClientCreateDt</a>	DateTime	Optional	The created date/time as reported by the client. This can vary from the object creation date/time due to time zone differences, communication delays, etc
<a href="#">ClientBusinessDt</a>	DateTime	Optional	The date/time that the client recorded this object for operational purposes. This date/time will often be used to manage the availability of information or funds.
<a href="#">LastUpdateDt</a>	DateTime	Optional	Last update Date/Time. The date/time the object was created or modified. This field is intended to support



			optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LastUpdateRqUID</a>	UUID	Optional	Last update RqUID. The RqUID from the message that resulted in th object being created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LoginName</a>	C-40	Optional	The login name (or Id) of the individual that authorized this object to be created. This is typically used when the object is created on behalf of its owner by someone who is not normally represented as a Party (i.e., an employee or agent).
<a href="#">PartyKeys</a>	Aggregate	Optional	Reference to the Party that this object is owned by or authorized by.
<a href="#">CardKeys</a>	Aggregate	Optional	This is dependent on Card proposal. Currently this is implemented as the CardLogicalData aggregate.
<a href="#">PassbkKeys</a>	Aggregate	Optional	Currently PassbkAcceptData.
<a href="#">NetworkTrnData</a>	Aggregate	Optional	Network Transaction Information. Identification and location of the terminal from which the message originates.
<a href="#">ServerTerminalSeqNum</a>	NC-36	Optional	Server Terminal Sequence Number. A terminal sequence number generated by the server to identify this object. This number is used in ATM and POS environments to uniquely identify transactions (with terminal name and date) for transaction management.
<a href="#">PointOfServiceData</a>	Aggregate	Optional	The Point of Service Data. This aggregate contains information about the environment in which this message originated.
<a href="#">ClientTerminalSeqNum</a>	NC-36	Optional	Client Terminal Sequence Number. A terminal sequence number generated by the client to identify this object. This number is used in ATM, POS, Branch, Call Center and Teller environments to uniquely identify transactions at the client (with terminal name and date). This number is often required when requesting supporting documentation related to a customer transaction.
end Elements from BaseEnvr			
begin Aggregate			
end Aggregate			

---

**Deposit Book Order Identifier <DepBkOrdId>**

Deposit Book Order Identifier

Datatype: **Identifier**

---

**Deposit Book Order Information Aggregate <DepBkOrdInfo>**

Deposit Book Order Information Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">AcctKeys</a>	Aggregate	Required	Account Keys Aggregate
<a href="#">Count</a>	Long	Optional	Number of Deposit Slips. If omitted, the number used for the previous order must be used.
<a href="#">DepBkStyleIdent</a>	NC-36	Optional	Style of Deposit Book.
end Aggregate			

---

**Deposit Book Order Inquiry Request <DepBkOrdInqRq>**

Deposit Book Order Inquiry Request

See the matching response message [DepBkOrdInqRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
	Aggregate		

<a href="#">MsgRqHdr</a>		Optional	Message Request Header
<a href="#">DocCtrlIn</a>	Aggregate	Optional	Document Control Input
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
begin-xor		Optional Repeating	
<a href="#">DepBkOrdSel</a>	Aggregate	Required	Deposit Book Order Selection Aggregate
<a href="#">RecSelect</a>	IfxPath	Required	Record Select
end-xor			
end Aggregate			

---

### Deposit Book Order Inquiry Response <DepBkOrdInqRs>

Deposit Book Order Inquiry Response

See the matching request message [DepBkOrdInqRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">DocCtrlOut</a>	Aggregate	Optional	Document Control Output
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">DepBkOrdRec</a>	Aggregate	Required Repeating	Deposit Book Order Record Aggregate
end-block			
end Aggregate			

---

### Deposit Book Order Keys Aggregate <DepBkOrdKeys>

Deposit Book Order Keys Aggregate

Extends: [BaseKeys](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseKeys			
end Elements from BaseKeys			
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
begin-xor		Required	
<a href="#">DepBkOrdId</a>	Identifier	Required	Deposit Book Order Identifier
end-xor			
end Aggregate			

---

### Deposit Book Order Modify Request <DepBkOrdModRq>

Deposit Book Order Modify Request

See the matching response message [DepBkOrdModRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">DepBkOrdKeys</a>	Aggregate	Required	Deposit Book Order Keys Aggregate
begin-block		Required Repeating	
<a href="#">DepBkOrdInfo</a>	Aggregate	Required	Deposit Book Order Information Aggregate
begin-xor		Optional Repeating	
<a href="#">DelElements</a>	lfxPath	Required	An lfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to delete. It is an error if one attempts to delete Required fields.
<a href="#">UpdElements</a>	lfxPath	Required	An lfxPath (relative to a base of this IFX object's Info aggregate) which indicates

			which element to update. The new value of the updated element is in the accompanying xxxInfo aggregate.
<a href="#">NewElements</a>	lfxPath	Required	An lfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to add. The new value of the new elements is in the accompanying xxxInfo aggregate.
end-xor			
end-block			
end Aggregate			

---

## Deposit Book Order Modify Response <DepBkOrdModRs>

Deposit Book Order Modify Response

See the matching request message [DepBkOrdModRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">DepBkOrdRec</a>	Aggregate	Required	Deposit Book Order Record Aggregate
<a href="#">DepBkOrdStatusRec</a>	Aggregate	Required	Deposit Book Order Status Record Aggregate
end-xor			
end-block			
end Aggregate			

---

## Deposit Book Order Record Aggregate <DepBkOrdRec>

## Deposit Book Order Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">DepBkOrdId</a>	Identifier	Required	Deposit Book Order Identifier
<a href="#">DepBkOrdInfo</a>	Aggregate	Required	Deposit Book Order Information Aggregate
<a href="#">DepBkOrdEnvr</a>	Aggregate	Optional	Deposit Book Order Environment Aggregate
<a href="#">DepBkOrdStatus</a>	Aggregate	Required	Deposit Book Order Status Aggregate
end Aggregate			

---

## Deposit Book Order Reference Aggregate <DepBkOrdRef>

Deposit Book Order Reference Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">DepBkOrdKeys</a>	Aggregate	Required	Deposit Book Order Keys Aggregate
<a href="#">DepBkOrdRec</a>	Aggregate	Required	Deposit Book Order Record Aggregate
<a href="#">DepBkOrdInfo</a>	Aggregate	Required	Deposit Book Order Information Aggregate
end-xor			
end Aggregate			

---

## Deposit Book Order Selection Aggregate <DepBkOrdSel>

Deposit Book Order Selection Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required Repeating	
<a href="#">DepBkOrdKeys</a>	Aggregate	Required	Deposit Book Order Keys Aggregate
begin-block		Required	
<a href="#">AcctKeys</a>	Aggregate	Optional	Account Keys Aggregate
<a href="#">DtRange</a>	Aggregate	Optional	Date Range
end-block			
end-xor			
end Aggregate			

---

**Deposit Book Order Status Aggregate <DepBkOrdStatus>**

Deposit Book Order Status Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">DepBkOrdStatusCode</a>	Open Enum	Required	Deposit Book Order Status Code  Valid values include: Accepted, Cancelled, Deleted, Held, Pending, Processed, Rejected, Sent, Valid
<a href="#">StatusDesc</a>	C-255	Optional	Status Description
<a href="#">EffDt</a>	DateTime	Optional	Effective Date Time
<a href="#">ApprovalIdent</a>	NC-36	Optional	Approval Identifier
<a href="#">StatusModBy</a>	Open Enum	Optional	Status Modified By  Valid values include: BPP, BPPSR, BSP, BPPSR, CPP, CPPSR, CSP, CSPSR, Customer, FI, PSP
<a href="#">StatusReason</a>	C-80	Optional	Status Reason
end Aggregate			

---

### Deposit Book Order Status Code <DepBkOrdStatusCode>

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Pending	The order has been received but has not yet been validated and therefore is awaiting acceptance.	N
Accepted	The order has been accepted for processing.	N
Processed	The order has been processed.	N
Sent	The fulfillment center has sent the checks	N
Rejected	The order was rejected.	N
Cancelled	The order was cancelled.	N
Valid		N
Deleted		N
Held	order was held	N

---

### Deposit Book Order Status Record Aggregate <DepBkOrdStatusRec>

Deposit Book Order Status Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">Svclident</a>	Aggregate	Optional	Service Identifier
<a href="#">DepBkOrdId</a>	Identifier	Required	Deposit Book Order Identifier
<a href="#">DepBkOrdStatus</a>	Aggregate	Required	Deposit Book Order Status Aggregate
end Aggregate			

---

### Deposit Book Style Identifier <DepBkStyleIdent>



Style of Deposit Book.

Datatype: **NC-36**

---

**Dependents <Dependents>**

Number of Dependents.

Datatype: **Long**

---

**Description <Desc>**

General-purpose text description. Meaning depends on context.

Datatype: **C-80**

---

**Destination Airport <DestAirport>**

The destination airport or railway name's standard abbreviation.

Datatype: **C-5**

---

**Device Request Message <DevAdviseRq>**

Informs other IFX entities (e.g. Hosts, CSP, SP) of a change in the status of a device at the terminal.

See the matching response message [DevAdviseRs](#)

### Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
begin-xor		Required	
<a href="#">DevRec</a>	Aggregate	Required	Device Record Aggregate
<a href="#">DevStatusRec</a>	Aggregate	Required	Device Status Record Aggregate
end-xor			
end Aggregate			

---

### Device Response Message <DevAdviseRs>

Response message used to inform other IFX entities (e.g. Hosts, CSP, SP) of a change in the status of a device at the Terminal

See the matching request message [DevAdviseRq](#)

### Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">DevRec</a>	Aggregate	Required	Device Record Aggregate
<a href="#">DevStatusRec</a>	Aggregate	Required	Device Status Record Aggregate
end-xor			
end-block			
end Aggregate			

---

### Device Alarm State <DevAlmAlarm>

The state of the Alarm at time of alert.

Datatype: **Closed Enum**

### Enumerated Values

Value	Description	Is default
Reset		N
Set		N
NotSupported		N

---

### Device Alarm Operation <DevAlmOperation>

The operation being performed at the time the alert is raised. It is strongly recommended that the following defined values are used rather than custom values in order to ensure maximum portability.

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
SetAlarm		N
Reset		N
NotSupported		N

---

### Device Alarm Type <DevAlmType>

Type of Alarm/Alm.

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
-------	-------------	------------

Alarm		N
-------	--	---

---

### Device Detail Application Component <DevAppComponent>

Device details specific an Application component.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">Name</a>	C-40	Required	Name. Application/Component Name
<a href="#">Version</a>	NC-12	Optional	Version. Application/Component Version
<a href="#">DevHealthLevel</a>	Open Enum	Optional	Device Health Level. The state of the application/component at time of alert.  Valid Values: Healthy, Warning, Fatal, Suspend
end Aggregate			

---

### Device Application Normal Operation <DevAppNormalOperation>

An indication that the application is available for consumer transactions.

Datatype: **Boolean**

---

### Device Application Operation <DevAppOperation>

The operation being performed at the time the alert is raised. It is strongly recommended that the following defined values be used rather than custom values in order to ensure maximum portability.

NOTE: If the application is "idle" then no <DevAppOperation> element would be included.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
BusinessTransaction	User is at terminal performing a business transaction.	N
AdminMaintenance	Administrator is at terminal performing maintenance functions.	N
AppMaintenance	Application is performing maintenance (for example self-diagnostics or processing commands from host).	N
SoftwareInstallation	Software is currently being installed by the terminal.	N
FinancialReplenishment	Financial replenishment is being performed at the terminal. This value may be used in addition to AdminMaintenance to indicate that the administrator is in the financial replenishment menu of the administrator application.	N

---

### Device CAM Operation <DevCamOperation>

The operation being performed at the time the alert is raised.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
TakePicture		N
Reset		N
NotSupported		N

---

### Device CAM Status Area <DevCamStatusArea>

Area monitored by the camera.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
-------	-------------	------------

Room		N
Person		N
ExitSlot		N

---

### Device CAM Status Media <DevCamStatusMedia>

The state of the recording media of the camera.

Datatype: **Closed Enum**

### Enumerated Values

Value	Description	Is default
OK		N
High		N
Full		N
NotSupported		N
Unknown		N

---

### Device CAM Status Pictures <DevCamStatusPictures>

Number of pictures stored on the recording media of the camera.

Datatype: **Long**

---

### Device CAM Status State <DevCamStatusState>

State of the camera.

Datatype: **Closed Enum**

### Enumerated Values

--	--	--

Value	Description	Is default
NotSupported		N
OK		N
Inoperative		N
Unknown		N

---

### Device CAM Type <DevCamType>

Type of Camera device. Only one type is currently defined.

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
Camera		N

---

### Device Cash Dispenser Module Bin <DevCdmBin>

Dispenser bin details specific to CDM devices.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">DevCdmBinNum</a>	Long	Required	Device CDM Bin Number
<a href="#">DevCdmBinType</a>	Open Enum	Required	Device CDM Bin Type  Valid values include: BillCassette, CoinCylinder, CoinDispenser, Coupon, Document, NotApplicable, Recycling, RejectCassette, RepContainer, RetractCassette
<a href="#">DevCdmBinState</a>	Closed Enum	Required	Device CDM Bin State  Valid values are limited to: Empty, Full, High, Inoperable, Low, Manipulated, Missing,

			NoReference, NotAvailable, OK
<a href="#">DevCdmBinMedia</a>	Closed Enum	Required	Device CDM Bin Media Valid values are limited to: Empty, Full, High, Low, NotSupported, OK, Unknown
<a href="#">DevCdmBinCurCode</a>	Aggregate	Optional	Device CDM Bin Currency Code
<a href="#">DevCdmBinDenomination</a>	Decimal	Optional	Device CDM Bin Denomination
<a href="#">DevCdmBinCount</a>	Long	Optional	Device CDM Bin Count
<a href="#">DevCdmBinMaxCount</a>	Long	Optional	Device CDM Bin Maximum Count
<a href="#">DevCdmBinMinCount</a>	Long	Optional	Device CDM Bin Minimum Count
<a href="#">DevCdmBinInitialCount</a>	Long	Optional	Device CDM Bin Initial Count
<a href="#">DevCdmBinDispensedCount</a>	Long	Optional	Device CDM Bin Dispensed Count
<a href="#">DevCdmBinPresentedCount</a>	Long	Optional	Device CDM Bin Presented Count.
<a href="#">DevCdmBinRetractedCount</a>	Long	Optional	Device CDM Bin Retracted Count
<a href="#">DevCdmBinRejectCount</a>	Long	Optional	Device CDM Bin Reject Count
<a href="#">DevCdmBinAppLock</a>	Boolean	Optional	Device CDM Bin Application Lock
end Aggregate			

---

### Device CDM Bin Application Lock <DevCdmBinAppLock>

Application lock on the cash unit. When True the items cannot be dispensed from the cash unit. Does not apply to retract or reject cash units. It is ignored if the hardware does not support this.

Datatype: **Boolean**

---

### Device CDM Bin Count <DevCdmBinCount>

The total number of notes of all types in the cash unit.

Datatype: **Long**



---

**Device CDM Bin Currency Code <DevCdmBinCurCode>**

Three-letter currency code as defined by ISO-4217

Extends: [CurCode](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from CurCode			
<a href="#">CurCodeType</a>	Open Enum	Optional	Currency Code Type <hr/> Valid values include: ISO4217-Alpha, ISO4217-Numeric
<a href="#">CurCodeValue</a>	Open Enum	Required	Currency Code Value <hr/>
end Elements from CurCode			
begin Aggregate			
end Aggregate			

---

**Device CDM Bin Denomination <DevCdmBinDenomination>**

Denomination of the dispenser bin.

Datatype: **Decimal**

---

**Device CDM Bin Dispensed Count <DevCdmBinDispensedCount>**

The number of items dispensed from this cash unit.

Datatype: **Long**

---

**Device CDM Bin Initial Count <DevCdmBinInitialCount>**

The initial number of items contained in the cash unit.

Datatype: **Long**

---

**Device CDM Bin Maximum Count <DevCdmBinMaxCount>**

The maximum number of notes the cash unit can hold.

Datatype: **Long**

---

**Device CDM Bin Media <DevCdmBinMedia>**

The state of the media in the currently referenced CDM cash bin. Valid Values: OK, High, Full, Low, Empty, NotSupported, Unknown

Datatype: **Closed Enum**

**Enumerated Values**

Value	Description	Is default
OK		N
High		N
Full		N
Low		N
Empty		N
NotSupported		N
Unknown		N

---

**Device CDM Bin Minimum Count <DevCdmBinMinCount>**

When DevCdmBinCount reaches this value, a XFS threshold event will be generated.

Datatype: **Long**

---

**Device CDM Bin Number <DevCdmBinNum>**

Number of the dispenser bin.

Datatype: **Long**

---

**Device CDM Bin Presented Count. <DevCdmBinPresentedCount>**

The number of items from this cash unit that have been presented to the customer.

Datatype: **Long**

---

**Device CDM Bin Reject Count <DevCdmBinRejectCount>**

The number of items from this cash unit which are in the reject bin.

Datatype: **Long**

---

**Device CDM Bin Retracted Count <DevCdmBinRetractedCount>**

The number of items that have been accessible to a customer and retraced.

Datatype: **Long**

---

### Device CDM Bin State <DevCdmBinState>

The operational status of the currently referenced CDM cash bin.

Datatype: **Closed Enum**

### Enumerated Values

Value	Description	Is default
OK		N
Full		N
High		N
Low		N
Empty		N
Inoperable		N
Missing		N
NotAvailable		N
NoReference		N
Manipulated		N

---

### Device CDM Bin Type <DevCdmBinType>

Type of dispenser media.

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
RejectCassette		N
BillCassette		N
CoinCylinder		N
CoinDispenser		N
RetractCassette		N
Coupon		N
Document		N
RepContainer		N

Recycling		N
NotApplicable		N

---

### Device CDM Cash Units <DevCdmCashUnits>

The status of the dispenser cash units. Valid Values: OK, Warning, Fatal, Unknown

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
OK		N
Warning		N
Fatal		N
Unknown		N

---

### Device CDM Intermediate Stacker <DevCdmIntermediateStacker>

The status of the intermediate stacker.

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
Empty		N
NotEmpty		N
CustomerAccess		N
Unknown		N
NotSupported		N

---

## Device CDM Operation <DevCdmOperation>

The operation being performed at the time the alert is raised. It is strongly recommended that the following defined values be used rather than custom values in order to ensure maximum portability.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Dispense		N
Present		N
Retract		N
Reject		N
Count		N
CloseShutter		N
OpenShutter		N
StartExchange		N
EndExchange		N
OpenSafeDoor		N
Calibrate		N
Reset		N
Test		N

---

## Device Cash Dispenser Position <DevCdmPosition>

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">DevCdmPositionLocation</a>	Open Enum	Required	Device CDM Position Location. Specifies the location of this position for cash dispense.  Valid values: OutLeft, OutRight, OutCenter, OutTop, OutBottom, OutFront, OutRear
<a href="#">DevCdmShutter</a>	Open Enum	Required	Device CDM Shutter. The state of the shutter for this position.  Valid values: Closed, Open, Jammed, Unknown, NotSupported

<a href="#">DevCdmPositionState</a>	Open Enum	Required	Device CDM Position Status. The state of this position.  Valid values: Empty, NotEmpty, Unknown, NotSupported
<a href="#">DevCdmTransport</a>	Open Enum	Required	Device CDM Transport. The state of the transport for this position.  Valid values: OK, Inoperable, Unknown, NotSupported
<a href="#">DevCdmTransportItems</a>	Open Enum	Required	Device CDM Transport Items. The state of the transport for this position.  Valid values: Empty, NotEmpty, CustomerAccess, Unknown, NotSupported
end Aggregate			

---

### Device CDM Position Location <DevCdmPositionLocation>

Specifies the location of this position for cash dispense

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
OutLeft		N
OutRight		N
OutCenter		N
OutTop		N
OutBottom		N
OutFront		N
OutRear		N

---

### Device CDM Position State <DevCdmPositionState>

The state of this position.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Empty		N
NotEmpty		N
Unknown		N
NotSupported		N

---

### Device CDM Safe Door <DevCdmSafeDoor>

The status of the safe door.

Datatype: **Closed Enum**

## Enumerated Values

Value	Description	Is default
Open		N
Closed		N
NotSupported		N
Unknown		N

---

### Device CDM Shutter <DevCdmShutter>

The state of the shutter for this position.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Closed		N
Open		N
Jammed		N
Unknown		N
NotSupported		N



---

**Device CDM Transport <DevCdmTransport>**

The state of the transport for this position.

Datatype: **Open Enum**

**Enumerated Values**

Value	Description	Is default
OK		N
Inoperable		N
Unknown		N
NotSupported		N

---

**Device CDM Transport Items <DevCdmTransportItems>**

The state of the transport for this position.

Datatype: **Open Enum**

**Enumerated Values**

Value	Description	Is default
Empty		N
NotEmpty		N
CustomerAccess		N
Unknown		N
NotSupported		N

---

**Device CDM Type <DevCdmType>**

Type of dispenser device.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
TellerBill		N
SelfServiceBill		N
TellerCoin		N
SelfServiceCoin		N

---

### Device Check Image Enabled <DevChkImageEnabled>

Indicates a special case of check reader, i.e., image-enabled (or check scanner). If present, and the value is *True*, then the device is a check scanner. If omitted, or the value is *False*, then the device is a check reader.

Datatype: **Boolean**

---

### Device Check of Ink <DevChkInk>

The state of the ink in the check reader/scanner device.

Datatype: **Closed Enum**

## Enumerated Values

Value	Description	Is default
Out		N
Low		N
Full		N
NotSupported		N

---

### Device Check Media <DevChkMedia>

The state of the media in the check reader/scanner device.

Datatype: **Closed Enum**

## Enumerated Values

Value	Description	Is default
Jammed		N
Present		N
Required		N
NotPresent		N
NotSupported		N

---

### Device Check Operation <DevChkOperation>

The operation being performed at the time the alert is raised. It is strongly recommended that the following defined values be used rather than custom values in order to ensure maximum portability.

Valid Values: Eject, Retain, Reset, Write, Read

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Read		N
Write		N
Reset		N
Retain		N
Eject		N

---

### Device Check Type <DevChkType>

Type of check reader/scanner device.

Datatype: **Open Enum**

# Enumerated Values

Value	Description	Is default
Check		N

## Device Cash Acceptance Module Bin <DevCimBin>

Acceptor bin details specific to CIM devices.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">DevCimBinNum</a>	Long	Required	Device CIM Bin Number
<a href="#">DevCimBinType</a>	Open Enum	Required	Device CIM Bin Type  Valid values include: CashIn, CDMSpecific, Recycling, RejectCassette, RepContainer, RetractCassette
<a href="#">DevCimBinItemType</a>	Closed Enum	Required Repeating	Device Cash Acceptance Module Bin Item Type  Valid values are limited to: All, Individual, IPM, Level2, Level3, Unfit, Zero
<a href="#">DevCimBinState</a>	Closed Enum	Required	Device CIM Bin State  Valid values are limited to: Empty, Full, High, Inoperable, Manipulated, Missing, NoReference, NotAvailable, OK
<a href="#">DevCimBinCurCode</a>	Aggregate	Optional	Device CIM Bin Currency Code
<a href="#">DevCimBinDenomination</a>	Decimal	Optional	Device CIM Bin Denomination
<a href="#">DevCimBinCount</a>	Long	Optional	Device CIM Bin Count
<a href="#">DevCimBinMaxCount</a>	Long	Optional	Device CIM Bin Maximum Count
<a href="#">DevCimBinMinCount</a>	Long	Optional	Device CIM Bin Minimum Cou
<a href="#">DevCimBinCashInCount</a>	Long	Optional	Device CIM Bin Cash-In Count
<a href="#">DevCimBinInitialCount</a>	Long	Optional	Device CIM Bin Initial Count
<a href="#">DevCimBinDispensedCount</a>	Long	Optional	Device CIM Bin Dispensed Count
<a href="#">DevCimBinPresentedCount</a>	Long	Optional	Device CIM Bin Presented Count

<a href="#">DevCimBinRetractedCount</a>	Long	Optional	Device CIM Bin Retracted Count
<a href="#">DevCimBinRejectedCount</a>	Long	Optional	Device CIM Bin Rejected Count
<a href="#">DevCimBinNote</a>	Aggregate	Optional Repeating	Device CIM Bin Note
<a href="#">DevCimBinAppLock</a>	Boolean	Optional	Device CIM Bin Application Lock
end Aggregate			

---

### Device CIM Bin Application Lock <DevCimBinAppLock>

Application lock on the cash unit.

When True the items cannot be accepted into the cash unit.

Does not apply to retract or reject cash units. It is ignored if the hardware does not support this.

Datatype: **Boolean**

---

### Device CIM Bin Cash-In Count <DevCimBinCashInCount>

The number of items deposited into this cash unit.

Datatype: **Long**

---

### Device CIM Bin Count <DevCimBinCount>

The total number of notes of all types in the cash unit.

Datatype: **Long**

---

**Device CIM Bin Currency Code <DevCimBinCurCode>**

Three-letter currency code as defined by ISO-4217.

Extends: [CurCode](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from CurCode			
<a href="#">CurCodeType</a>	Open Enum	Optional	Currency Code Type <hr/> Valid values include: ISO4217-Alpha, ISO4217-Numeric
<a href="#">CurCodeValue</a>	Open Enum	Required	Currency Code Value <hr/>
end Elements from CurCode			
begin Aggregate			
end Aggregate			

---

**Device CIM Bin Denomination <DevCimBinDenomination>**

Denomination of the acceptor bin.

If the cash unit is configured to accept more than one denomination of note then this field will contain zero. The value of the notes stored in the cash unit can be calculated from the contents of DevCimBinNoteList.

Datatype: **Decimal**

---

**Device CIM Bin Dispensed Count <DevCimBinDispensedCount>**

The number of items dispensed from this cash unit.

Datatype: **Long**

---

**Device CIM Bin Initial Count <DevCimBinInitialCount>**

The initial number of items contained in the cash unit.

Datatype: **Long**

---

**Device Cash Acceptance Module Bin Item Type  
<DevCimBinItemType>**

Device Cash Acceptance Module Bin Item Type

Datatype: **Closed Enum**

**Enumerated Values**

Value	Description	Is default
All		N
Unfit		N
Individual		N
Level2		N
Level3		N
IPM		N
Zero		N

---

**Device CIM Bin Maximum Count <DevCimBinMaxCount>**

The maximum number of notes the cash unit can hold. When DevCimBinCount reaches this value, a XFS threshold event will be generated.

Datatype: **Long**

---

### Device CIM Bin Minimum Count <DevCimBinMinCount>

The minimum number of notes the cash unit can dispense.

Datatype: **Long**

---

### Device CIM Bin Note <DevCimBinNote>

The list of cash items inside the cash unit.

May appear when the Bin is configured to accept more than one denomination of note.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">DevCimNoteTypeDetected</a>	Boolean	Optional	Device CIM Note Type Detected
begin-block		Optional	Must appear when DevCimNoteTypeDetected is "True"
<a href="#">DevCimNoteCurCode</a>	Aggregate	Required	Device CIM Note Currency Code
<a href="#">DevCimNoteDenomination</a>	Long	Required	Device CIM Note Denomination. Denomination Of The Note
end-block			
<a href="#">DevCimNoteCount</a>	Long	Required	Device CIM Note Count
<a href="#">DevCimNoteLevel</a>	Closed Enum	Optional	Device CIM Note Level Valid values are limited to: Level1, Level2, Level3, Level4
end Aggregate			

---

### Device CIM Bin Number <DevCimBinNum>

Number of the cash unit bin.

Datatype: **Long**



---

**Device CIM Bin Presented Count <DevCimBinPresentedCount>**

The number of items from this cash unit that have been presented to the customer.

Datatype: **Long**

---

**Device CIM Bin Rejected Count <DevCimBinRejectedCount>**

The number of items from this cash unit which are in the reject bin.

Datatype: **Long**

---

**Device CIM Bin Retracted Count <DevCimBinRetractedCount>**

The number of items that have been retracted into this cash unit.

Datatype: **Long**

---

**Device CIM Bin State <DevCimBinState>**

The operational status of the currently referenced CIM cash bin.

Datatype: **Closed Enum**

**Enumerated Values**

Value	Description	Is default
OK		N
Full		N

High		N
Empty		N
Inoperable		N
Missing		N
NotAvailable		N
NoReference		N
Manipulated		N

---

### Device CIM Bin Type <DevCimBinType>

Type of media accepted by this device.

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
Recycling		N
CashIn		N
RepContainer		N
RetractCassette		N
RejectCassette		N
CDMSpecific		N

---

### Device CIM Cash Units <DevCimCashUnits>

The status of the acceptor cash units

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
OK		N
Warning		N
Fatal		N
Unknown		N

---

### Device CIM Drop Box <DevCimDropBox>

The status of the drop box. The drop box is an area within the CIM where items which have caused a problem during an operation are stored.

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
Empty		N
NotEmpty		N
NotSupported		N

---

### Device CIM Intermediate Stacker <DevCimIntermediateStacker>

The status of the intermediate stacker.

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
Empty		N
NotEmpty		N
Full		N
Unknown		N
NotSupported		N

---

### Device CIM Note Count <DevCimNoteCount>

The number of the cash note.

Datatype: **Long**

---

**Device CIM Note Currency Code <DevCimNoteCurCode>**

Three-letter currency code as defined by ISO-4217.

Extends: [CurCode](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from CurCode			
<a href="#">CurCodeType</a>	Open Enum	Optional	Currency Code Type  Valid values include: ISO4217-Alpha, ISO4217-Numeric
<a href="#">CurCodeValue</a>	Open Enum	Required	Currency Code Value
end Elements from CurCode			
begin Aggregate			
end Aggregate			

---

**Device CIM Note Denomination. Denomination Of The Note.  
<DevCimNoteDenomination>**

Device CIM Note Denomination. Denomination Of The Note.

Datatype: **Long**

---

**Device CIM Note Level <DevCimNoteLevel>**

Specify the note level detected. Depends on the vendor implementation.

Datatype: **Closed Enum**

## Enumerated Values

Value	Description	Is default
Level1		N
Level2		N
Level3		N
Level4		N

---

### Device CIM Note Reader <DevCimNoteReader>

The status of the banknote reader.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
OK		N
Inoperable		N
Unknown		N
NotSupported		N

---

### Device CIM Note Type Detected <DevCimNoteTypeDetected>

Indicate if the note type is detected. When ?True?, the block below must appear.

Datatype: **Boolean**

---

### Device CIM Operation <DevCimOperation>

The operation being performed at the time the alert is raised.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
CashInStart		N
CashIn		N
CashInEnd		N
Rollback		N
Retract		N
OpenShutter		N
CloseShutter		N
StartExchange		N
EndExchange		N
OpenSafeDoor		N
Reset		N
NotSupported		N

---

## Device Cash Acceptance Position <DevCimPosition>

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">DevCimPositionLocation</a>	Open Enum	Required	Device CIM Position Location. Specifies the location of this position for cash acceptance.  Valid values: InLeft, InRight, InCenter, InTop, InBottom, InFront, InRear, OutLeft, OutRight, OutCenter, OutTop, OutBottom, OutFront, OutRear
<a href="#">DevCimShutter</a>	Open Enum	Required	Device CIM Shutter. The state of the shutter for this position.  Valid values: Closed, Open, Jammed, Unknown, NotSupported
<a href="#">DevCimPositionState</a>	Open Enum	Required	Device CIM Position Status. The state of this position.  Valid values: Empty, NotEmpty, Unknown, NotSupported

<a href="#">DevCimTransport</a>	Open Enum	Required	Device CIM Transport. The state of the transport for this position.  Valid values: OK, Inoperable, Unknown, NotSupported
<a href="#">DevCimTransportItems</a>	Open Enum	Required	Device CIM Transport Items. The state of the transport for this position.  Valid values: Empty, NotEmpty, CustomerAccess, Unknown, NotSupported
end Aggregate			

---

### Device CIM Position Location <DevCimPositionLocation>

Specifies the location of this position for cash acceptance.

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
InLeft		N
InRight		N
InCenter		N
InTop		N
InBottom		N
InFront		N
InRear		N
OutLeft		N
OutRight		N
OutCenter		N
OutTop		N
OutBottom		N
OutFront		N
OutRear		N

---

### Device CIM Position State <DevCimPositionState>

The state of this position.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Empty		N
NotEmpty		N
Unknown		N
NotSupported		N

---

### Device CIM Safe Door <DevCimSafeDoor>

The status of the safe door.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Open		N
Closed		N
Unknown		N
NotSupported		N

---

### Device CIM Shutter <DevCimShutter>

The state of the shutter for this position.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Closed		N
Open		N



Jammed		N
Unknown		N
NotSupported		N

---

### Device CIM Stacker Items <DevCimStackerItems>

Describes whether the items on the intermediate stacker have been in customer access.

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
CustomerAccess		N
NoCustomerAccess		N
AccessUnknown		N
NoItems		N

---

### Device CIM Transport <DevCimTransport>

The state of the transport for this position.

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
OK		N
Inoperable		N
Unknown		N
NotSupported		N

---

## Device CIM Transport Items <DevCimTransportItems>

The state of the transport for this position.

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
Empty		N
NotEmpty		N
CustomerAccess		N
Unknown		N
NotSupported		N

---

## Device CIM Type <DevCimType>

Type of cash accept device.

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
TellerBill		N
SelfServiceBill		N
TellerCoin		N
SelfServiceCoin		N

---

## Device Depository Container <DevDepContainer>

The state of the deposit container at time of the alert.

Datatype: **Closed Enum**

### Enumerated Values

Value	Description	Is default
-------	-------------	------------

OK		N
High		N
Full		N
Inoperable		N
Missing		N
Unknown		N
NotSupported		N

---

### Device Depository Envelope Dispenser <DevDepEnvelopeDispenser>

The state of the deposit envelope dispenser at time of the alert

Datatype: **Closed Enum**

### Enumerated Values

Value	Description	Is default
OK		N
Inoperable		N
Unknown		N
NotSupported		N

---

### Device Depository Envelope Supply <DevDepEnvelopeSupply>

The state of the deposit envelope supply at time of the alert.

Datatype: **Closed Enum**

### Enumerated Values

Value	Description	Is default
OK		N
Low		N
Empty		N
Inoperable		N
Unlocked		N
Missing		N
Unknown		N

NotSupported		N
--------------	--	---

---

### Device Number of Deposits <DevDepNumOfDeposits>

Total number of bags or envelopes in the deposit container

Datatype: **Long**

---

### Device Depository Operation <DevDepOperation>

The operation being performed at the time the alert is raised. It is strongly recommended that the following defined values are used rather than custom values in order to ensure maximum portability.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Entry		N
Dispense		N
Retract		N
Reset		N
ResetCount		N

---

### Device Depository Printer <DevDepPrinter>

The state of the deposit printer at time of the alert.

Datatype: **Closed Enum**

## Enumerated Values

Value	Description	Is default
-------	-------------	------------

OK		N
Inoperable		N
Unknown		N
NotSupported		N

---

### Device Depository Shutter <DevDepShutter>

The state of the shutter at time of alert.

Datatype: **Closed Enum**

### Enumerated Values

Value	Description	Is default
Jam		N
Unknown		N
NotSupported		N
Open		N
Close		N

---

### Device Depository Toner <DevDepToner>

The state of the deposit printers toner at time of the alert.

Datatype: **Closed Enum**

### Enumerated Values

Value	Description	Is default
Full		N
Low		N
Out		N
Unknown		N
NotSupported		N

---

### Device Depository Transport <DevDepTransport>

The state of the deposit transport at time of alert.

Datatype: **Closed Enum**

### Enumerated Values

Value	Description	Is default
OK		N
Inoperable		N
Unknown		N
NotSupported		N

---

### Device Depository Type <DevDepType>

Type of Depository.

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
EnvelopeMotorized		N
EnvelopeManual		N
EnvelopeNone		N
BagDrop		N

---

### Device Detail <DevDetail>

Note that the categorization of the following Device objects have been modeled after the XFS service class definitions. Although this will use the same classification as the XFS standard, this in no way ties an IFX client to use the XFS standard when using devices.

Extended By: [DevDetailAlm](#), [DevDetailApp](#), [DevDetailCam](#), [DevDetailCdm](#), [DevDetailChk](#), [DevDetailCim](#), [DevDetailDep](#), [DevDetailIdc](#), [DevDetailIpm](#), [DevDetailPIN](#), [DevDetailPtr](#), [DevDetailSiu](#),

[DevDetailTtu](#), [DevDetailVdm](#)

Datatype: **Abstract Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
end Aggregate			

---

### Device Detail Alarm <DevDetailAlm>

Device details specific to Alarm devices (devices covered by the XFS ALM service class).

Extends: [DevDetail](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from DevDetail			
end Elements from DevDetail			
begin Aggregate			
<a href="#">DevAlmType</a>	Open Enum	Required	Type of Alarm/Alm. Valid Values: Alarm
<a href="#">DevAlmOperation</a>	Open Enum	Optional	The operation being performed at the time the alert is raised. It is strongly recommended that the following defined values are used rather than custom values in order to ensure maximum portability. Valid Values: SetAlarm, Reset, NotSupported
<a href="#">DevAlmAlarm</a>	Closed Enum	Required	The state of the Alarm at time of alert. Valid Values: Reset, Set, NotSupported
end Aggregate			

---

### Device Detail Application <DevDetailApp>

Device details specific to the Application.

Extends: [DevDetail](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from DevDetail			
end Elements from DevDetail			
begin Aggregate			
<a href="#">DevAppOperation</a>	Open Enum	Optional Repeating	<p>Device Application Operation. The operation being performed at the time the alert is raised. It is strongly recommended that the following defined values be used rather than custom values in order to ensure maximum portability.</p> <p>Valid Values:</p> <p>BusinessTransaction, AdminMaintenance, AppMaintenance, SoftwareInstallation, FinancialReplenishment.</p> <p>NOTE: If the application is "idle" then no &lt;DevAppOperation&gt; element would be included.</p>
<a href="#">DevAppNormalOperation</a>	Boolean	Required	<p>Device Application Normal Operation. An indication that the application is available for consumer transactions.</p> <p>Valid Values:</p> <p>True, False.</p>
<a href="#">DevAppComponent</a>	Aggregate	Optional Repeating	<p>Device Application Component Aggregate. The state of individual components in the application.</p>
end Aggregate			

---

### Device Detail Camera <DevDetailCam>

Device details specific to camera devices (devices covered by the XFS CAM service class).

Extends: [DevDetail](#)



Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from DevDetail			
end Elements from DevDetail			
begin Aggregate			
<a href="#">DevCamType</a>	Open Enum	Required	Device CAM Type. Type of Camera device. Only one type is currently defined.  Valid Values:  Camera
<a href="#">DevCamOperation</a>	Open Enum	Optional	Device CAM Operation. The operation being performed at the time the alert is raised.  Valid Values:  TakePicture, Reset, NotSupported
<a href="#">DevCamStatusArea</a>	Open Enum	Required	Device CAM Status Area. Area monitored by the camera.  Valid Values:  Room, Person, ExitSlot
<a href="#">DevCamStatusMedia</a>	Closed Enum	Optional	Device CAM Status Media. The state of the recording media of the camera.  Valid Values:  OK, High, Full, NotSupported, Unknown
<a href="#">DevCamStatusState</a>	Closed Enum	Optional	Device CAM Status State. State of the camera.  Valid Values:  NotSupported, OK, Inoperative, Unknown
<a href="#">DevCamStatusPictures</a>	Long	Optional	Device CAM Status Pictures. Number of pictures stored on the recording media of the camera.
end Aggregate			

---

**Device Detail Cash Dispenser Module <DevDetailCdm>**

Device details specific to the cash dispenser device (devices covered by the XFS CDM service class).

Extends: [DevDetail](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from DevDetail			
end Elements from DevDetail			
begin Aggregate			
<a href="#">DevCdmType</a>	Open Enum	Required	Device CDM Type. Type of dispenser device.  Valid Values: TellerBill, SelfServiceBill, TellerCoin, SelfServiceCoin
<a href="#">DevCdmOperation</a>	Open Enum	Optional	Device CDM Operation. The operation being performed at the time the alert is raised. It is strongly recommended that the following defined values be used rather than custom values in order to ensure maximum portability.  Valid Values: Dispense, Present, Retract, Reject, Count, CloseShutter, OpenShutter, StartExchange, EndExchange, OpenSafeDoor, Calibrate, Reset, Test
<a href="#">DevCdmSafeDoor</a>	Closed Enum	Required	Device CDM Safe Door. The status of the safe door.  Valid Values: Open, Closed, NotSupported, Unknown
<a href="#">DevCdmCashUnits</a>	Open Enum	Required	Device CDM Cash Units. The status of the dispenser cash units.  Valid Values: OK, Warning, Fatal, Unknown
<a href="#">DevCdmIntermediateStacker</a>	Open Enum	Required	Device CDM Intermediate Stacker. The status of the intermediate stacker.  Valid Values: Empty, NotEmpty, CustomerAccess, NotEmpty, Unknown, NotSupported
<a href="#">DevCdmPosition</a>	Aggregate	Required	Device CDM Position Aggregate.
<a href="#">DevCdmBin</a>	Aggregate	Required Repeating	Device CDM Bin Aggregate. Aggregate for each supported dispenser bin.  Note: At least 1 bin is required

			by the dispenser device.
end Aggregate			

## Device Detail Check Reader/Scanner <DevDetailChk>

Device details specific to check reader and scanner devices (devices covered by the XFS CHK service class).

Extends: [DevDetail](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from DevDetail			
end Elements from DevDetail			
begin Aggregate			
<a href="#">DevChkType</a>	Open Enum	Required	Type of check reader/scanner device.  Valid Values: Check
<a href="#">DevChkOperation</a>	Open Enum	Optional	The operation being performed at the time the alert is raised. It is strongly recommended that the following defined values be used rather than custom values in order to ensure maximum portability.  Valid Values: Eject, Retain, Reset, Write, Read
<a href="#">DevChkImageEnabled</a>	Boolean	Optional	Indicates a special case of check reader, i.e., image-enabled (or check scanner). If present, and the value is True, then the device is a check scanner. If omitted, or the value is False, then the device is a check reader.
<a href="#">DevChkMedia</a>	Closed Enum	Required	The state of the media in the check reader/scanner device.  Valid Values: NotSupported, NotPresent, Required, Present, Jammed
<a href="#">DevChkInk</a>	Closed Enum	Optional	The state of the ink in the check reader/scanner device.  Valid Values: NotSupported, Full, Low, Out
end Aggregate			

## Device Detail Cash Acceptor <DevDetailCim>

Device details specific to cash acceptance devices (devices covered by the XFS CIM service class).

Extends: [DevDetail](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from DevDetail			
end Elements from DevDetail			
begin Aggregate			
<a href="#">DevCimType</a>	Open Enum	Required	Device CIM Type. Type of cash accept device.  Valid Values: TellerBill, SelfServiceBill, TellerCoin, SelfServiceCoin
<a href="#">DevCimOperation</a>	Open Enum	Optional	Device CIM Operation. The operation being performed at the time the alert is raised.  Valid Values: CashInStart, CashIn, CashInEnd, Rollback, Retract, OpenShutter, CloseShutter, StartExchange, EndExchange, OpenSafeDoor, Reset, NotSupported
<a href="#">DevCimSafeDoor</a>	Open Enum	Required	Device CIM Safe Door. The status of the safe door.  Valid Values: Open, Closed, Unknown, NotSupported
<a href="#">DevCimCashUnits</a>	Open Enum	Required	Device CIM Cash Units. The status of the acceptor cash units.  Valid Values: OK, Warning, Fatal, Unknown
<a href="#">DevCimIntermediateStacker</a>	Open Enum	Required	Device CIM Intermediate Stacker. The status of the intermediate stacker.  Valid Values: Empty, NotEmpty, Full, Unknown, NotSupported
<a href="#">DevCimStackerItems</a>	Open Enum	Required	Device CIM Stacker Items. Describes whether the items on the intermediate stacker have been in customer access.

			Valid Values: CustomerAccess, NoCustomerAccess, AccessUnknown, Noltems
<a href="#">DevCimNoteReader</a>	Open Enum	Required	Device CIM Note Reader. The status of the banknote reader.  Valid Values: OK, Inoperable, Unknown, NotSupported
<a href="#">DevCimDropBox</a>	Open Enum	Required	Device CIM Drop Box. The status of the drop box. The drop box is an area within the CIM where items which have caused a problem during an operation are stored.  Valid Values: Empty, NotEmpty, NotSupported
<a href="#">DevCimPosition</a>	Aggregate	Required	Device CIM Position Aggregate.
<a href="#">DevCimBin</a>	Aggregate	Required Repeating	Device CIM Bin Aggregate. Aggregate for each supported acceptor bin.
end Aggregate			

---

### Device Detail Depositories <DevDetailDep>

Device details specific to Depositories (devices covered by the XFS DEP service class).

Extends: [DevDetail](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from DevDetail			
end Elements from DevDetail			
begin Aggregate			
<a href="#">DevDepType</a>	Open Enum	Required	Device Depository Type. Type of Depository.  Valid Values:  EnvelopeMotorized, EnvelopeManual, EnvelopeNone, BagDrop
<a href="#">DevDepOperation</a>	Open Enum	Optional	Device Depository Operation. The operation being performed at the time the alert is raised. It is strongly recommended that the following

			<p>defined values are used rather than custom values in order to ensure maximum portability.</p> <p>Valid Values:</p> <p>Entry, Dispense, Retract, Reset, ResetCount</p>
<a href="#">DevDepTransport</a>	Closed Enum	Required	<p>Device Depository Transport. The state of the deposit transport at time of alert.</p> <p>Valid Values:</p> <p>OK, Inoperable, Unknown, NotSupported</p>
<a href="#">DevDepContainer</a>	Closed Enum	Required	<p>Device Depository Container. The state of the deposit container at time of the alert.</p> <p>Valid Values:</p> <p>OK, High, Full, Inoperable, Missing, Unknown, NotSupported</p>
<a href="#">DevDepEnvelopeSupply</a>	Closed Enum	Required	<p>Device Depository Envelope Supply. The state of the deposit envelope supply at time of the alert.</p> <p>Valid Values:</p> <p>OK, Low, Empty, Inoperable, Unlocked, Missing, Unknown, NotSupported</p>
<a href="#">DevDepEnvelopeDispenser</a>	Closed Enum	Required	<p>Device Depository Envelope Dispenser. The state of the deposit envelope dispenser at time of the alert.</p> <p>Valid Values:</p> <p>OK, Inoperable, Unknown, NotSupported</p>
<a href="#">DevDepPrinter</a>	Closed Enum	Required	<p>Device Depository Printer. The state of the deposit printer at time of the alert.</p> <p>Valid Values:</p> <p>OK, Inoperable, Unknown, NotSupported</p>
<a href="#">DevDepToner</a>	Closed Enum	Required	<p>Device Depository Toner. The state of the deposit printers toner at time of the alert.</p> <p>Valid Values:</p>

			Full, Low, Out, Unknown, NotSupported
<a href="#">DevDepShutter</a>	Closed Enum	Required	Device Depository Shutter. The state of the shutter at time of alert.  Valid Values: Jam, Unknown, NotSupported, Open, Close
<a href="#">DevDepNumOfDeposits</a>	Long	Optional	Total number of bags or envelopes in the deposit container
end Aggregate			

### Device Detail Identification Card <DevDetailIdc>

Device details specific to identification card devices (devices covered by the XFS IDC service class).

Extends: [DevDetail](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from DevDetail			
end Elements from DevDetail			
begin Aggregate			
<a href="#">DevIdcType</a>	Open Enum	Required	Type of Card Reader/IDC.  Valid Values: Motor, Swipe, Contactless, Dip
<a href="#">DevIdcOperation</a>	Open Enum	Optional	The operation being performed at the time the alert is raised. It is strongly recommended that the following defined values are used rather than custom values in order to ensure maximum portability.  Valid Values: Read, Write, EjectCard, RetainCard, Chiplo, Reset, ChipPower
<a href="#">DevIdcMedia</a>	Closed Enum	Required	The state of the media in the IDC device.  Valid Values: Present, NotPresent, Jammed, NotSupported, Unknown, Entering
<a href="#">DevIdcRetainBin</a>	Closed Enum	Required	The state of the retain bin.

			Valid Values: OK, High, Full, NotSupported
<a href="#">DevIdcCards</a>	Long	Optional	The number of cards retained since the count was last reset on the client.
<a href="#">DevIdcRetainedCard</a>	Aggregate	Optional	Details of the cards that have been retained as a part of this alert.
<a href="#">DevIdcSecurity</a>	Closed Enum	Optional	The state of the security unit for this device.  Valid Values: NotSupported, NotReady, Open
<a href="#">DevIdcChipPower</a>	Closed Enum	Optional	The state of the chip on the currently inserted card in the device:  Valid Values: Online, PoweredOff, Busy, NoDevice, HwError, NoCard, NotSupported, Unknown
end Aggregate			

### Device Detail Item Processing Module Aggregate <DevDetailIpm>

Device details specific to item processing module devices (devices covered by the XFS IPM device class)

Extends: [DevDetail](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from DevDetail			
end Elements from DevDetail			
begin Aggregate			
<a href="#">DevIpmOperation</a>	Open Enum	Optional	Device Ipm Operation  Valid values include: AcceptItem, ActionItem, ExpelMedia, GetImageAfterPrint, GetNextItem, MediaIn, MediaInEnd, MediaInRollback, PowerSaveControl, PresentMedia, PrintText, ReadImage, Reset, RetractMedia, SetDestination, SetGuidanceLight, SetMediaBinInfo, SetMode, SupplyReplenish
<a href="#">DevIpmAcceptor</a>	Aggregate	Optional	Device Item Processing Module



			Item Acceptor
<a href="#">DevIpmMediaState</a>	Closed Enum	Optional	Device Ipm Media State Valid values are limited to: Jammed, NotPresent, NotSupported, Position, Present, Unknown
<a href="#">DevIpmInk</a>	Closed Enum	Optional	Device Ipm Ink Valid values are limited to: Full, Low, NotSupported, Out, Unknown
<a href="#">DevIpmToner</a>	Closed Enum	Optional	Device Ipm Toner Valid values are limited to: Full, Low, NotSupported, Out, Unknown
<a href="#">DevIpmFrontImageScanner</a>	Closed Enum	Optional	Device Ipm Front Image Scanner Valid values are limited to: Fading, Inoperable, NotSupported, OK, Unknown
<a href="#">DevIpmBackImageScanner</a>	Closed Enum	Optional	Device Ipm Back Image Scanner Valid values are limited to: Fading, Inoperable, NotSupported, OK, Unknown
<a href="#">DevIpmMICRReader</a>	Closed Enum	Optional	Device Ipm MICR Reader Valid values are limited to: Fading, Inoperable, NotSupported, OK, Unknown
<a href="#">DevIpmStacker</a>	Closed Enum	Optional	Device Ipm Stacker Valid values are limited to: Empty, Full, Inoperable, NotEmpty, NotSupported, Unknown
<a href="#">DevIpmReBuncher</a>	Closed Enum	Optional	Device Ipm Re-Buncher Valid values are limited to: Empty, Full, Inoperable, NotEmpty, NotSupported, Unknown
<a href="#">DevIpmMediaFeeder</a>	Closed Enum	Optional	Device Ipm Media Feeder Valid values are limited to: Empty, Inoperable, NotEmpty, NotSupported, Unknown
<a href="#">DevIpmPosition</a>	Aggregate	Optional Repeating	Device Item Processing Module Logical Position
end Aggregate			

---

## Device Detail PIN Keypad <DevDetailPIN>

Device details specific to PIN Keypad and other encryption/decryption devices (devices covered by the XFS PIN service class).

Extends: [DevDetail](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from DevDetail			
end Elements from DevDetail			
begin Aggregate			
<a href="#">DevPINType</a>	Open Enum	Required	Type of PIN Keypad device.  Valid Values: Keyboard, EncryptDecrypt, HwSecurityModule
<a href="#">DevPINOperation</a>	Open Enum	Optional	The operation being performed at the time the alert is raised. It is strongly recommended that the following defined values be used rather than custom values in order to ensure maximum portability.  Valid Values: Encrypt, Decrypt, RandomNum, GetData, GetPIN, ImportKey, DeriveKey, PresentIdc, GetPINBlock, PINInitialization, Reset
<a href="#">DevPINEncStat</a>	Closed Enum	Optional	The state of the Encryption Module.  Valid Values: Ready, NotReady, NotInialized, Busy, Undefined, Initialized
end Aggregate			

---

## Device Detail Printer <DevDetailPtr>

Device details specific to printer devices (devices covered by the XFS PTR service class).

Extends: [DevDetail](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
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begin Elements from DevDetail			
end Elements from DevDetail			
begin Aggregate			
<a href="#">DevPtrType</a>	Open Enum	Required	Device Printer Type. Type of the printer device.  Valid Values: Receipt, Journal, Document, Passbook, Scanner
<a href="#">DevPtrOperation</a>	Open Enum	Optional	Device Printer Operation. The operation being performed at the time the alert is raised. It is strongly recommended that the following defined values be used rather than custom values in order to ensure maximum portability.  Valid Values: ControlMedia, Print, Reset, RetractMedia, DispensePaper, Read
<a href="#">DevPtrMedia</a>	Closed Enum	Required	Device Printer Media. The state of the print media at the time of the alert.  Valid Values: Present, NotPresent, Jammed, NotSupported, Unknown, Entering, Retracted
<a href="#">DevPtrRetractBin</a>	Aggregate	Optional Repeating	Device Printer Retract Bin. The state of the printer retract bin.  Valid Values: OK, High, Full, Unknown
<a href="#">DevPtrSupply</a>	Aggregate	Optional Repeating	Device Printer Supply Aggregate. The state of the print supply at time of alert. The <DevPtrSupply> aggregate repeats for different possible locations of the supply.
<a href="#">DevPtrInk</a>	Closed Enum	Optional	Device Printer Ink. The state of the ink at the time of the alert.  Valid Values: Full, Low, Out, NotSupported, Unknown
<a href="#">DevPtrToner</a>	Closed Enum	Optional	Device Printer Toner. The state of the printer toner or ink supply.  Valid Values: Full, Low, Out, Unknown, NotSupported
<a href="#">DevPtrLamp</a>	Closed Enum	Optional	Device Printer Lamp. The state of the lamp at time of alert.  Valid Values: OK, Fading, Inoperative, NotSupported, Unknown
end Aggregate			

---

## Device Detail Sensors and Indicators <DevDetailSiu>

Device details specific to sensors and indicator devices (devices covered by the XFS and J/XFS SIU service class).

Extends: [DevDetail](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from DevDetail			
end Elements from DevDetail			
begin Aggregate			
<a href="#">DevSiuType</a>	Aggregate	Required	Device SIU Type Aggregate. Types of sensors and indicators available.
<a href="#">DevSiuOperation</a>	Open Enum	Optional	Device SIU Operation. The operation being performed at the time the alert is raised. . It is strongly recommended that the following defined values be used rather than custom values in order to ensure maximum portability.  Valid Values: SetPorts, SetDoor, SetIndicator, SetGuidelight, SetAuxiliary, Reset, NotSupported
<a href="#">DevSiuSensorState</a>	Aggregate	Optional	Device SIU Sensor Status Aggregate. The current state of any general sensors that are available.
<a href="#">DevSiuDoorState</a>	Aggregate	Optional	Device SIU Door Status Aggregate. The current state of any door sensors that are available.
<a href="#">DevSiuIndicatorState</a>	Aggregate	Optional	Device SIU Indicator Status Aggregate. The current state of any indicators that are available.
<a href="#">DevSiuAuxiliaryState</a>	Aggregate	Optional	Device SIU Auxiliary Status Aggregate. The current state of any auxiliary sensors that are available.
<a href="#">DevSiuGuidelightState</a>	Aggregate	Optional	Device SIU Guidelight Status Aggregate. The current state of any guidelights that are available.
end Aggregate			

---

## Device Detail Text Terminal Unit <DevDetailTtu>

Device details specific to Text Terminal Unit devices (devices covered by

the XFS TTU service class).

Extends: [DevDetail](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from DevDetail			
end Elements from DevDetail			
begin Aggregate			
<a href="#">DevTtuType</a>	Open Enum	Required	Type of Text Terminal Unit/Ttu. Valid Values: Fixed, Removable
<a href="#">DevTtuOperation</a>	Open Enum	Optional	The operation being performed at the time the alert is raised. It is strongly recommended that the following defined values are used rather than custom values in order to ensure maximum portability. Valid Values: Write, Read, Reset, NotSupported
<a href="#">DevTtuKbd</a>	Closed Enum	Required	The state of the keyboard at time of alert. Valid Values: On, Off, NotAvailable
<a href="#">DevTtuKbdLock</a>	Closed Enum	Required	The state of the keyboard lock at time of alert. Valid Values: On, Off, NotAvailable
<a href="#">DevTtuLed</a>	Closed Enum	Optional Repeating	The state of the leds at time of alert. If an LED is present this element should be returned. The order of the LED's listed is significant. Valid Values: Off, BlinkingSlowly, MediumFlash, QuickFlash, Continuous, NotAvailable
end Aggregate			

---

### Device Detail Vendor Dependent Mode <DevDetailVdm>

Device details specific to Vendor Dependent Mode (covered by the XFS VDM service class).

Extends: [DevDetail](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from DevDetail			
end Elements from DevDetail			
begin Aggregate			
<a href="#">DevVdmOperation</a>	Open Enum	Optional	Device VDM Operation. The operation being performed at the time the alert is raised. It is strongly recommended that the following defined values be used rather than custom values in order to ensure maximum portability.  Valid Values:  Enter, Exit
<a href="#">DevVdmServiceState</a>	Closed Enum	Optional	Device VDM Service State. The state of the VDM Service at time of alert.  Valid Values:  EnterPending, ExitPending, Active, Inactive
end Aggregate			

---

**Device Environment Aggregate <DevEnvr>**

Device Environment Aggregate

Extends: [BaseEnvr](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseEnvr			
<a href="#">CreatedDt</a>	DateTime	Required	Created Date/Time. The date/time the object was created.
<a href="#">CreateRefIdent</a>	NC-36	Optional	An identifier used to uniquely identify the creation of this object to the system that created the object. This will usually be a link to reference information used in creating the object.
<a href="#">ClientCreateDt</a>	DateTime	Optional	The created date/time as reported by the client. This can vary from the object creation date/time due to time

			zone differences, communication delays, etc
<a href="#">ClientBusinessDt</a>	DateTime	Optional	The date/time that the client recorded this object for operational purposes. This date/time will often be used to manage the availability of information or funds.
<a href="#">LastUpdateDt</a>	DateTime	Optional	Last update Date/Time. The date/time the object was created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LastUpdateRqUID</a>	UUID	Optional	Last update RqUID. The RqUID from the message that resulted in the object being created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LoginName</a>	C-40	Optional	The login name (or Id) of the individual that authorized this object to be created. This is typically used when the object is created on behalf of its owner by someone who is not normally represented as a Party (i.e., an employee or agent).
<a href="#">PartyKeys</a>	Aggregate	Optional	Reference to the Party that this object is owned by or authorized by.
<a href="#">CardKeys</a>	Aggregate	Optional	This is dependent on Card proposal. Currently this is implemented as the CardLogicalData aggregate.
<a href="#">PassbkKeys</a>	Aggregate	Optional	Currently PassbkAcceptData.
<a href="#">NetworkTrnData</a>	Aggregate	Optional	Network Transaction Information. Identification and location of the terminal from which the message originates.
<a href="#">ServerTerminalSeqNum</a>	NC-36	Optional	Server Terminal Sequence Number. A terminal sequence number generated by the server to identify this object. This number is used in ATM and POS environments to uniquely identify transactions (with terminal name and date) for transaction management.
<a href="#">PointOfServiceData</a>	Aggregate	Optional	The Point of Service Data. This aggregate contains information about the environment in which this message originated.
<a href="#">ClientTerminalSeqNum</a>	NC-36	Optional	Client Terminal Sequence Number. A terminal sequence number generated by the client to identify this object. This number is used in ATM, POS, Branch, Call Center and Teller environments to uniquely identify transactions at the client (with terminal name and date). This number is often

			required when requesting supporting documentation related to a customer transaction.
end Elements from BaseEnvr			
begin Aggregate			
end Aggregate			

---

### Device Health Level <DevHealthLevel>

The state of the application/component at time of alert.

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
Healthy		N
Warning		N
Fatal		N
Suspend		N

---

### Device Identifier <DevId>

Device Identifier

Datatype: **Identifier**

---

### Device Identification Cards <DevIdcCards>

The number of cards retained since the count was last reset on the client.

Datatype: **Long**



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### Device Identification Chip Power <DevIdcChipPower>

The state of the chip on the currently inserted card in the device.

Datatype: **Closed Enum**

### Enumerated Values

Value	Description	Is default
Online		N
PoweredOff		N
Busy		N
NoDevice		N
HwError		N
NoCard		N
NotSupported		N
Unknown		N

---

### Device Identification Media <DevIdcMedia>

The state of the media in the IDC device.

Datatype: **Closed Enum**

### Enumerated Values

Value	Description	Is default
Present		N
NotPresent		N
Jammed		N
NotSupported		N
Unknown		N
Entering		N

---

## Device Identification Operation <DevIdcOperation>

The operation being performed at the time the alert is raised. It is strongly recommended that the following defined values are used rather than custom values in order to ensure maximum portability.

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
Read		N
Write		N
EjectCard		N
RetainCard		N
Chiplo		N
Reset		N
ChipPower		N

---

## Device Identification Retain Bin <DevIdcRetainBin>

The state of the retain bin.

Datatype: **Closed Enum**

### Enumerated Values

Value	Description	Is default
OK		N
High		N
Full		N
NotSupported		N

---

## Device Identification Card Retained Card <DevIdcRetainedCard>

Datatype: **Aggregate**

--	--	--	--

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">CardMagData</a>	Aggregate	Required	Card Magnetic Stripe Data. The data from the card that was retained.
end Aggregate			

---

### Device Identification Security <DevIdcSecurity>

The state of the security unit for this device.

Datatype: **Closed Enum**

### Enumerated Values

Value	Description	Is default
NotSupported		N
NotReady		N
Open		N

---

### Device Identification Type <DevIdcType>

Type of Card Reader/IDC.

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
Motor		N
Swipe		N
Contactless		N
Dip		N

---

## Device Imp Media In Count <DevImpMediaInCount>

Count of items that have entered the media bin as a result of operations on the IPM interface. This counter is incremented whenever media enters the media bin for any reason as a result of an operation initiated through the IPM interface. This value is persistent. On a retract-only bin, if the device cannot count media during a retract operation this value will be zero.

Datatype: **Long**

---

## Device Imp Transport <DevImpTransport>

The state of the transport mechanism.

Datatype: **Closed Enum**

## Enumerated Values

Value	Description	Is default
OK		N
Inoperable		N
Unknown		N
NotSupported		N

---

## Device Information Aggregate <DevInfo>

Device Information Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">DevName</a>	C-255	Optional	Device Name. Human readable name of the device.
end Aggregate			

---

## Device Request Message <DevInqRq>

An IFX client uses the <DevInqRq> message to retrieve Device records from an IFX Terminal that can have one or more Device records.

See the matching response message [DevInqRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">DocCtrlIn</a>	Aggregate	Optional	Document Control Input
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
begin-xor		Optional Repeating	
<a href="#">DevSel</a>	Aggregate	Required	Device Selection Aggregate
<a href="#">RecSelect</a>	IfxPath	Required	Record Select
end-xor			
end Aggregate			

---

## Device Response Message <DevInqRs>

Response message that retrieves Device records from an IFX Terminal that can have one or more Device records.

See the matching request message [DevInqRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
	Aggregate		

<a href="#">MsgRsHdr</a>		Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">DocCtrlOut</a>	Aggregate	Optional	Document Control Output
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">DevRec</a>	Aggregate	Required Repeating	Device Record Aggregate
end-block			
end Aggregate			

### Device Item Processing Module Item Acceptor <DevIpmAcceptor>

Device item processing module item acceptor details specific to Ipm devices (devices covered by the XFS IPM device class). It provides the information about overall acceptor status and media bins.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">DevIpmAcceptorStatus</a>	Closed Enum	Required	Dev Ipm Acceptor Status  Valid values are limited to: OK, State, Stop, Unknown
<a href="#">DevIpmBin</a>	Aggregate	Required Repeating	Device Item Processing Module Acceptor Bin
end Aggregate			

### Dev Ipm Acceptor Status <DevIpmAcceptorStatus>

Supplies the state of the overall acceptor media bins.

Datatype: **Closed Enum**

### Enumerated Values

Value	Description	Is default
OK		N

State		N
Stop		N
Unknown		N

---

### Device Ipm Back Image Scanner <DevIpmBackImageScanner>

Specifies the status of the image scanner that captures images of the back of the media items.

Datatype: **Closed Enum**

### Enumerated Values

Value	Description	Is default
OK		N
Fading		N
Inoperable		N
NotSupported		N
Unknown		N

---

### Device Item Processing Module Acceptor Bin <DevIpmBin>

Device item processing module acceptor bin details specific to Ipm devices (devices covered by the XFS IPM device class). It provides the information about the status and contents of the media bins that can be used by IPM operation.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">DevIpmBinNum</a>	Long	Required	Device Ipm Bin Number
<a href="#">DevIpmBinType</a>	Open Enum	Required	Device Ipm Bin Type Valid values include: MediaBin, RetractBin
<a href="#">DevIpmMediaType</a>	Closed Enum	Optional	Device Ipm Media Type Valid values are limited to: Compound,

			IPM
<a href="#">DevImpMediaInCount</a>	Long	Required	Device Imp Media In Count
<a href="#">DevIpmCount</a>	Long	Required	Device Ipm Count
<a href="#">DevIpmRetractOperation</a>	Long	Optional	Device Ipm Retract Operation
<a href="#">DevIpmBinStatus</a>	Closed Enum	Required	Device Ipm Bin Status Valid values are limited to: Full, High, Inoperable, Missing, OK, Unknown
end Aggregate			

---

### Device Ipm Bin Number <DevIpmBinNum>

Index Number of the Bin. Each Bin has a unique number starting with one (1) for the first Bin, and incrementing by one for each subsequent Bin.

Datatype: **Long**

---

### Device Ipm Bin Status <DevIpmBinStatus>

Describes the status of the Media Bin.

Datatype: **Closed Enum**

## Enumerated Values

Value	Description	Is default
OK		N
Full		N
High		N
Inoperable		N
Missing		N
Unknown		N

---



## Device Ipm Bin Type <DevIpmBinType>

Device Bin Type. Type of media accepted by this device.

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
MediaBin		N
RetractBin		N

---

## Device Ipm Count <DevIpmCount>

Total number of media in the media bin (including items that may have been added via a compound device interface). If the bin is a shared bin with a compound device interface then this value may not be the same as the value of ulMediaInCount. On a retract-only bin, if the device cannot count media during a retract operation this value will be zero.

Datatype: **Long**

---

## Device Ipm Front Image Scanner <DevIpmFrontImageScanner>

Specifies the status of the image scanner that captures images of the front of the media items.

Datatype: **Closed Enum**

### Enumerated Values

Value	Description	Is default
OK		N
Fading		N
Inoperable		N
NotSupported		N
Unknown		N

---

**Device Ipm Ink <DevIpmInk>**

The state of the stamping ink in the device.

Datatype: **Closed Enum**

**Enumerated Values**

Value	Description	Is default
NotSupported		N
Full		N
Low		N
Out		N
Unknown		N

---

**Device Ipm Media Feeder <DevIpmMediaFeeder>**

The state of the media feeder.

Datatype: **Closed Enum**

**Enumerated Values**

Value	Description	Is default
Empty		N
NotEmpty		N
Inoperable		N
NotSupported		N
Unknown		N

---

**Device Ipm Media State <DevIpmMediaState>**

The state of the media.

Datatype: **Closed Enum**

## Enumerated Values

Value	Description	Is default
Present		N
NotPresent		N
Jammed		N
NotSupported		N
Unknown		N
Position		N

---

### Device Ipm Media Status <DevIpmMediaStatus>

The information regarding items which may be present on the transport.

Datatype: **Closed Enum**

## Enumerated Values

Value	Description	Is default
Empty		N
NotEmpty		N
Unknown		N
NotSupported		N

---

### Device Ipm Media Type <DevIpmMediaType>

Specifies the type of media the media bin takes.

Datatype: **Closed Enum**

## Enumerated Values

Value	Description	Is default
IPM		N
Compound		N

---

### Device Ipm MICR Reader <DevIpmMICRReader>

Specifies the status of the MICR code line reader.

Datatype: **Closed Enum**

### Enumerated Values

Value	Description	Is default
OK		N
Fading		N
Inoperable		N
NotSupported		N
Unknown		N

---

### Device Ipm Operation <DevIpmOperation>

The operation being performed at the time the alert is raised. It is strongly recommended that the following defined values be used rather than custom values in order to ensure maximum portability.

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
MediaIn		N
MediaInEnd		N
MediaInRollback		N
ReadImage		N
SetDestination		N
PresentMedia		N
RetractMedia		N
PrintText		N
SetMediaBinInfo		N
Reset		N
SetGuidanceLight		N

GetNextItem		N
ActionItem		N
ExpelMedia		N
GetImageAfterPrint		N
AcceptItem		N
SupplyReplenish		N
PowerSaveControl		N
SetMode		N

---

### Device Item Processing Module Logical Position <DevIpmPosition>

Device item processing module logical position details specific to Ipm devices (devices covered by the XFS IPM device class). It provides information about positions (input, output, refused) in the IPM device.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">DevIpmPositionType</a>	Closed Enum	Required	Device Ipm Position Type Valid values are limited to: Input, Output, Refused
<a href="#">DevIpmShutter</a>	Closed Enum	Required	Device Ipm Shutter Valid values are limited to: Closed, Jammed, NotSupported, Open, Unknown
<a href="#">DevIpmPositionStatus</a>	Closed Enum	Required	Device Ipm Position Status Valid values are limited to: Empty, NotEmpty, NotSupported, Unknown
<a href="#">DevImpTransport</a>	Closed Enum	Required	Device Imp Transport Valid values are limited to: Inoperable, NotSupported, OK, Unknown
<a href="#">DevIpmMediaStatus</a>	Closed Enum	Required	Device Ipm Media Status Valid values are limited to: Empty, NotEmpty, NotSupported, Unknown
end Aggregate			

---

### Device Ipm Position Status <DevIpmPositionStatus>

The status of the input or output position.

Datatype: **Closed Enum**

### Enumerated Values

Value	Description	Is default
Empty		N
NotEmpty		N
Unknown		N
NotSupported		N

---

### Device Ipm Position Type <DevIpmPositionType>

The logical position types.

Datatype: **Closed Enum**

### Enumerated Values

Value	Description	Is default
Input		N
Output		N
Refused		N

---

### Device Ipm Re-Buncher <DevIpmReBuncher>

Supplies the state of the re-buncher (return stacker). The re-buncher is where the media items are re-bunched ready for return to the customer.

Datatype: **Closed Enum**

### Enumerated Values

Value	Description	Is default
Empty		N

NotEmpty		N
Full		N
Inoperable		N
NotSupported		N
Unknown		N

---

### Device Ipm Retract Operation <DevIpmRetractOperation>

The number of retract operations via commands WFS\_CMD\_IPM\_RETRACT\_MEDIA and WFS\_CMD\_IPM\_RESET and error recovery where media is moved to the bin. This value is persistent.

Datatype: **Long**

---

### Device Ipm Shutter <DevIpmShutter>

The state of the shutter.

Datatype: **Closed Enum**

## Enumerated Values

Value	Description	Is default
Closed		N
Open		N
Jammed		N
Unknown		N
NotSupported		N

---

### Device Ipm Stacker <DevIpmStacker>

Supplies the state of the stacker (also known as an escrow). The stacker is where the media items are held while the application decides what to do with them.

Datatype: **Closed Enum**

## Enumerated Values

Value	Description	Is default
Empty		N
NotEmpty		N
Full		N
Inoperable		N
NotSupported		N
Unknown		N

---

### Device Ipm Toner <DevIpmToner>

The state of the toner or ink supply or the state of the ribbon of the endorser.

Datatype: **Closed Enum**

## Enumerated Values

Value	Description	Is default
Full		N
Low		N
Out		N
NotSupported		N
Unknown		N

---

### Device Keys Aggregate <DevKeys>

Device Keys Aggregate

Extends: [BaseKeys](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes



begin Elements from BaseKeys			
end Elements from BaseKeys			
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
begin-xor		Required	
<a href="#">DevId</a>	Identifier	Required	Device Identifier
end-xor			
end Aggregate			

---

### Device Name <DevName>

Human readable name of the device.

This field is used as a selection criterion.

Datatype: **C-255**

---

### Device PIN Encryptin Status <DevPINEncStat>

The state of the Encryption Module.

Datatype: **Closed Enum**

### Enumerated Values

Value	Description	Is default
Ready		N
NotReady		N
NotInitialized		N
Busy		N
Undefined		N
Initialized		N

---

## Device PIN Operation <DevPINOperation>

The operation being performed at the time the alert is raised. It is **strongly** recommended that the following defined values be used rather than custom values in order to ensure maximum portability.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Encrypt		N
Decrypt		N
RandomNum		N
GetData		N
GetPIN		N
ImportKey		N
DeriveKey		N
PresentIdc		N
GetPINBlock		N
PINInitialization		N
Reset		N

---

## Device PIN Type <DevPINType>

Type of PIN Keypad device.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Keyboard		N
EncryptDecrypt		N
HwSecurityModule		N

---

## Device Platform Data <DevPlatformData>

The Device Platform Data Aggregate returns information specific to certain device platforms. This is necessary for logging and troubleshooting purposes.

The DevPlatformXfs Sub-Aggregates may be returned even if the client is not on that platform. For instance, a non-XFS client may return the DevPlatformXfs Aggregate.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">DevPlatformSource</a>	Closed Enum	Optional	Device Platform Source. Indicates whether the Device message is coming directly from the device platform layer, or the client has interpreted this data from another format.  Valid Values: Native, Interpreted
<a href="#">DevPlatformXfs</a>	Aggregate	Optional	Device Platform XFS Aggregate. Device details specific to the XFS Device message standards.
end Aggregate			

---

## Device Platform Source <DevPlatformSource>

Indicates whether the Device message is coming directly from the device platform layer, or the client has interpreted this data from another format.

Datatype: **Closed Enum**

## Enumerated Values

Value	Description	Is default
Native		N
Interpreted		N

---

## Device Platform XFS <DevPlatformXfs>

This aggregate is used to return Platform Specific information, as defined by the XFS Device Platform standard. Note that non-XFS platforms may return this information as well.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">PlatformXfsRequestIdent</a>	Long	Optional	Platform XFS Request Id. The sequence number (in decimal form) assigned by the XFS Manager for the request that raised the alert. This value is expected as an integer value in the range 0- 4294967295.
<a href="#">PlatformXfsTimestamp</a>	DateTime	Optional	Platform XFS Timestamp. The time that the alert was raised, based on the XFS Platform date/time. The client should include as much detail as is available (down to the fraction of a second).
<a href="#">PlatformXfsEventIdent</a>	Decimal	Optional	Platform XFS Event Id. The Id of the event that raised the alert (for unsolicited events). This value is expected as an integer value in the range 0- 4294967295.
<a href="#">PlatformXfsLogicalName</a>	C-255	Optional	Platform XFS Logical Name. The high-level, pre-defined logical name of a service used by the XFS Manager as a key to obtain the specific configuration information needed. (e.g. "SYSJOURNAL1", "PASSBOOKPTR3", "CASHDISP02") Here, it is used to identify the service that raised the alert.
<a href="#">PlatformXfsPhysicalName</a>	C-255	Optional	Platform XFS Physical Name. The physical service name of the service that raised the alert.
<a href="#">PlatformXfsWkstName</a>	C-255	Optional	Platform XFS Workstation Name. The name of the workstation in which the logical service name is defined (if any)
<a href="#">PlatformXfsState</a>	Decimal	Optional	Platform XFS State. The new state of the physical device managed by the service.  Example states from the XFS Specifications include:  WFS_STAT_DEVONLINE = 0, WFS_STAT_DEVFFLINE = 1, WFS_STAT_POWEROFF = 2, WFS_STAT_DEVNODEVICE = 3, WFS_STAT_DEVHWERROR = 4, WFS_STAT_DEVUSERERROR = 5,  WFS_STAT_DEVBUSY = 6

			This value is expected as an integer value, not outside the range 0-4294967295, that is defined as a state by the XFS standard.
<a href="#">PlatformXfsAppldent</a>	C-255	Optional	Platform XFS Application Id. The application ID associated with the session that raised the alert (if any)
<a href="#">PlatformXfsAction</a>	Decimal	Optional	Platform XFS Action. The actions required to manage the error as defined by the XFS specification.  Example actions from the XFS specifications include: WFS_ERR_ACT_NOACTION = 0, WFS_ERR_ACT_RESET = 1, WFS_ERR_ACT_SWERROR = 2, WFS_ERR_ACT_CONFIG = 4, WFS_ERR_ACT_HWCLEAR = 8, WFS_ERR_ACT_HWMMAINT = 16, WFS_ERR_ACT_SUSPEND = 32  This value is expected as an integer value, not outside the range 0-4294967295, that is defined as an action by the XFS standard.
<a href="#">PlatformXfsDesc</a>	C-unbound	Optional	Platform XFS Description. A vendor-specific description of the error.
<a href="#">PlatformXfsCmdCode</a>	Decimal	Optional	Platform XFS Command Code. The WFSExecute "command" code or the WFSGetInfo "category" code; not used for other command completions. This value is expected as an integer value in the range 0- 4294967295.
<a href="#">PlatformXfsCmdHResult</a>	Long	Optional	Platform XFS Command HResult. The Device Command Result code as specified by the XFS device standards.
end Aggregate			

---

### Device Printer Ink <DevPtrInk>

The state of the ink at the time of the alert.

Datatype: **Closed Enum**

### Enumerated Values

Value	Description	Is default

Full		N
Low		N
Out		N
NotSupported		N
Unknown		N

---

### Device Printer Lamp <DevPtrLamp>

The state of the lamp at time of alert.

Datatype: **Closed Enum**

### Enumerated Values

Value	Description	Is default
OK		N
Fading		N
Inoperative		N
NotSupported		N
Unknown		N

---

### Device Printer Media <DevPtrMedia>

The state of the print media at the time of the alert.

Datatype: **Closed Enum**

### Enumerated Values

Value	Description	Is default
Present		N
NotPresent		N
Jammed		N
NotSupported		N
Unknown		N
Entering		N
Retracted		N

---

## Device Printer Operation <DevPtrOperation>

The operation being performed at the time the alert is raised. It is strongly recommended that the following defined values be used rather than custom values in order to ensure maximum portability.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
ControlMedia		N
Print		N
Reset		N
RetractMedia		N
DispensePaper		N
Read		N

---

## Device Printer Retract Bin <DevPtrRetractBin>

Device Printer Retract Bin

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">Index</a>	Long	Required	Device PTR Bin Number. Number of the printer retract bin.
<a href="#">DevPtrRetractBinState</a>	Closed Enum	Required	Device Printer Retract Bin State  Valid values are limited to: Full, High, OK, Unknown
<a href="#">Count</a>	Long	Optional	Device PTR count. A count of the number items in the printer retract bin if known.
end Aggregate			

---

## Device Printer Retract Bin State <DevPtrRetractBinState>

The state of the printer retract bin.

Datatype: **Closed Enum**

## Enumerated Values

Value	Description	Is default
OK		N
High		N
Full		N
Unknown		N

---

## Device Printer Supply <DevPtrSupply>

Printer supply details specific to printer devices.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">DevPtrSupplyLocation</a>	Open Enum	Optional	Device Printer Supply Location. The location of the printer supply.  Valid Values: Upper, Lower, External, Auxiliary, Auxiliary2, Park
<a href="#">DevPtrSupplyLevel</a>	Closed Enum	Required	Device Printer Supply Level. The actual supply level for the printer.  Valid Values: Full, Low, Out, NotSupported, Unknown, Jammed
end Aggregate			

---

## Device Printer Supply Level <DevPtrSupplyLevel>



The actual supply level for the printer.

Datatype: **Closed Enum**

## Enumerated Values

Value	Description	Is default
Full		N
Low		N
Out		N
NotSupported		N
Unknown		N
Jammed		N

---

## Device Printer Supply Location <DevPtrSupplyLocation>

The location of the printer supply.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Upper		N
Lower		N
External		N
Auxiliary		N
Auxiliary2		N
Park		N

---

## Device Printer Toner <DevPtrToner>

The state of the printer toner or ink supply

Datatype: **Closed Enum**

## Enumerated Values

---

Value	Description	Is default
Full		N
Low		N
Out		N
Unknown		N
NotSupported		N

---

### Device Printer Type <DevPtrType>

Type of the printer device.

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
Receipt		N
Journal		N
Document		N
Passbook		N
Scanner		N

---

### Device Record Aggregate <DevRec>

Device Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">DevId</a>	Identifier	Required	Device Identifier
<a href="#">DevInfo</a>	Aggregate	Required	Device Information Aggregate
<a href="#">DevEnvr</a>	Aggregate	Optional	Device Environment Aggregate
<a href="#">DevStatus</a>	Aggregate	Required	Device Status Aggregate
end Aggregate			

---

## Device Reference Aggregate <DevRef>

Device Reference Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">DevKeys</a>	Aggregate	Required	Device Keys Aggregate
<a href="#">DevRec</a>	Aggregate	Required	Device Record Aggregate
<a href="#">DevInfo</a>	Aggregate	Required	Device Information Aggregate
end-xor			
end Aggregate			

---

## Device Selection Aggregate <DevSel>

Device Selection Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required Repeating	
<a href="#">DevKeys</a>	Aggregate	Required	Device Keys Aggregate
begin-block		Required	
<a href="#">DevName</a>	C-255	Optional	Device Name
<a href="#">DevType</a>	Closed Enum	Optional	Device Type  Valid values are limited to: Alm, App, Cam, Cdm, Ceu, Chk, Cim, Dep, Idc, PIN, Ptr, Siu, Ttu, Vdm
<a href="#">DevStatusCode</a>	Open Enum	Optional	Device Status Code

			Valid values include: Deleted, Fatal, Healthy, Suspend, Valid, Warning
end-block			
end-xor			
end Aggregate			

---

### Device SIU Amber LED <DevSiuAmberLed>

The state of the amber LED.

Datatype: **Closed Enum**

### Enumerated Values

Value	Description	Is default
Off		N
On		N
NotAvailable		N

---

### Device SIU Ambient Light <DevSiuAmbientLight>

The state of the ambient light sensor.

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
VeryDark		N
Dark		N
MediumLight		N
Light		N
VeryLight		N
NotAvailable		N

---

**Device SIU Audible Alarm <DevSiuAudibleAlarm>**

The state of the audible alarm.

Datatype: **Open Enum**

**Enumerated Values**

Value	Description	Is default
Off		N
On		N
NotAvailable		N

---

**Device SIU Audio <DevSiuAudio>**

The state of the audio indicator.

Datatype: **Open Enum**

**Enumerated Values**

Value	Description	Is default
Off		N
KeyClick		N
Exclamation		N
Warning		N
Error		N
Critical		N
Continuous		N
NotAvailable		N

---

**Device SIU Auxiliary <DevSiuAuxiliary>**

Specifies whether auxiliary sensors are available.

Datatype: **Closed Enum**

## Enumerated Values

Value	Description	Is default
Yes		N
No		N
NotSupported		N

---

### Device Sensors and Indicators Auxiliary State <DevSiuAuxiliaryState>

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">DevSiuVolume</a>	Long	Required	Device SIU Volume. An integer (0-1000) indicating the audio volume level.  0 = Off, 1=Minimum volume, 1000=Maximum volume.
<a href="#">DevSiuUps</a>	Open Enum	Required	Device SIU Uninterruptable Power Supply. The state of the uninterruptable power supply.  Valid Values: Available, Low, Engaged, Powering, Recovered, NotAvailable
<a href="#">DevSiuRemoteState</a>	Aggregate	Required	Device SIU Remote Status. The state of the remote status monitor indicators.
<a href="#">DevSiuAudibleAlarm</a>	Open Enum	Required	Device SIU Audible Alarm. The state of the audible alarm.  Valid Values: Off, On, NotAvailable
end Aggregate			

---

### Device SIU Cabinet <DevSiuCabinet>

The state of the cabinet door(s).

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Closed		N
Open		N
Locked		N
Bolted		N
NotAvailable		N

---

### Device SIU CDM Guidelight <DevSiuCdmGuidelight>

The state of the note dispenser guidelight.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Off		N
SlowFlash		N
MediumFlash		N
QuickFlash		N
Continuous		N
NotAvailable		N

---

### Device SIU CHK Guidelight <DevSiuChkGuidelight>

The state of the check reader guidelight.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Off		N

SlowFlash		N
MediumFlash		N
QuickFlash		N
Continuous		N
NotAvailable		N

---

### Device SIU CIM Guidelight <DevSiuCimGuidelight>

The state of the note accept guidelight.

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
Off		N
SlowFlash		N
MediumFlash		N
QuickFlash		N
Continuous		N
NotAvailable		N

---

### Device SIU Coin In Guidelight <DevSiuCoinInGuidelight>

The state of the coin acceptor guidelight.

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
Off		N
SlowFlash		N
MediumFlash		N
QuickFlash		N
Continuous		N
NotAvailable		N



---

**Device SIU Coin Out Guidelight <DevSiuCoinOutGuidelight>**

The state of the coin dispenser guidelight.

Datatype: **Open Enum**

**Enumerated Values**

Value	Description	Is default
Off		N
SlowFlash		N
MediumFlash		N
QuickFlash		N
Continuous		N
NotAvailable		N

---

**Device SIU DEP Guidelight <DevSiuDepGuidelight>**

The state of the envelope depository guidelight.

Datatype: **Open Enum**

**Enumerated Values**

Value	Description	Is default
Off		N
SlowFlash		N
MediumFlash		N
QuickFlash		N
Continuous		N
NotAvailable		N

---

**Device SIU Document Guidelight <DevSiuDocumentGuidelight>**

The state of the document printer guidelight.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Off		N
SlowFlash		N
MediumFlash		N
QuickFlash		N
Continuous		N
NotAvailable		N

---

### Device SIU Doors <DevSiuDoors>

Specifies whether door sensors are available.

Datatype: **Closed Enum**

## Enumerated Values

Value	Description	Is default
Yes		N
No		N
NotSupported		N

---

### Device Sensors and Indicators Door State <DevSiuDoorState>

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">DevSiuCabinet</a>	Open Enum	Required	Device SIU Cabinet. The state of the cabinet door(s).  Valid Values: Closed, Open, Locked,

			Bolted, NotAvailable
<a href="#">DevSiuSafe</a>	Open Enum	Required	Device SIU Safe. The state of the safe door(s).  Valid Values: Closed, Open, Locked, Bolted, NotAvailable
<a href="#">DevSiuVandalShield</a>	Open Enum	Required	Device SIU Vandal Shield. The state of the vandal shield.  Valid Values: Closed, Open, Locked, Service, Keyboard, Ajar, Jammed, NotAvailable
end Aggregate			

---

### Device SIU Enhanced Audio <DevSiuEnhancedAudio>

The state of the enhanced audio headset sensor component.

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
HeadsetPresent	A headset jack exists and a headset is inserted	N
HeadsetNotPresent	A headset jack exists and no headset is inserted	N
NotAvailable	No headset jack exists (no enhanced audio)	N

---

### Device SIU Fascia Light <DevSiuFasciaLight>

The state of the fascia light.

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
On		N
Off		N
NotAvailable		N

---

**Device SIU Green LED <DevSiuGreenLed>**

The state of the green LED.

Datatype: **Closed Enum**

**Enumerated Values**

Value	Description	Is default
Off		N
On		N
NotAvailable		N

---

**Device SIU Guidelights <DevSiuGuidelights>**

Specifies whether guidelights are available.

Datatype: **Closed Enum**

**Enumerated Values**

Value	Description	Is default
Yes		N
No		N
NotSupported		N

---

**Device SIU Guidelight State <DevSiuGuidelightState>**

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes

begin Aggregate

<a href="#">DevSiuIdcGuidelight</a>	Open Enum	Required	Device SIU IDC Guidelight. The state of the card reader guidelight.  Valid Values: Off, SlowFlash, MediumFlash, QuickFlash, Continuous, NotAvailable
<a href="#">DevSiuCdmGuidelight</a>	Open Enum	Required	Device SIU CDM Guidelight. The state of the note dispenser guidelight.  Valid Values: Off, SlowFlash, MediumFlash, QuickFlash, Continuous, NotAvailable
<a href="#">DevSiuCoinOutGuidelight</a>	Open Enum	Required	Device SIU Coin Out Guidelight. The state of the coin dispenser guidelight.  Valid Values: Off, SlowFlash, MediumFlash, QuickFlash, Continuous, NotAvailable
<a href="#">DevSiuReceiptGuidelight</a>	Open Enum	Required	Device SIU Receipt Guidelight. The state of the receipt printer guidelight.  Valid Values: Off, SlowFlash, MediumFlash, QuickFlash, Continuous, NotAvailable
<a href="#">DevSiuPassbookGuidelight</a>	Open Enum	Required	Device SIU Passbook Guidelight. The state of the passbook printer guidelight.  Valid Values: Off, SlowFlash, MediumFlash, QuickFlash, Continuous, NotAvailable
<a href="#">DevSiuDepGuidelight</a>	Open Enum	Required	Device SIU DEP Guidelight. The state of the envelope depository guidelight.  Valid Values: Off, SlowFlash, MediumFlash, QuickFlash, Continuous, NotAvailable
<a href="#">DevSiuChkGuidelight</a>	Open Enum	Required	Device SIU CHK Guidelight. The state of the check reader guidelight.  Valid Values: Off, SlowFlash, MediumFlash, QuickFlash, Continuous, NotAvailable
<a href="#">DevSiuCimGuidelight</a>	Open Enum	Required	Device SIU CIM Guidelight. The state of the note accept guidelight.  Valid Values: Off, SlowFlash, MediumFlash, QuickFlash, Continuous, NotAvailable
<a href="#">DevSiuDocumentGuidelight</a>	Open Enum	Required	Device SIU Document Guidelight. The state of the document printer guidelight.  Valid Values: Off, SlowFlash, MediumFlash, QuickFlash, Continuous,

			NotAvailable
<a href="#">DevSiuCoinInGuidelight</a>	Open Enum	Required	Device SIU Coin In Guidelight. The state of the coin acceptor guidelight.  Valid Values: Off, SlowFlash, MediumFlash, QuickFlash, Continuous, NotAvailable
<a href="#">DevSiuScannerGuidelight</a>	Open Enum	Required	Device SIU Scanner Guidelight. The state of the scanner guidelight.  Valid Values: Off, SlowFlash, MediumFlash, QuickFlash, Continuous, NotAvailable
end Aggregate			

---

### Device SIU Heat <DevSiuHeat>

The state of the external heat (fire) sensor.

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
Off		N
On		N
NotAvailable		N

---

### Device SIU Heating <DevSiuHeating>

The state of the internal heating.

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
Off		N
On		N

NotAvailable		N
--------------	--	---

---

### Device SIU IDC Guidelight <DevSiuldcGuidelight>

The state of the card reader guidelight.

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
Off		N
SlowFlash		N
MediumFlash		N
QuickFlash		N
Continuous		N
NotAvailable		N

---

### Device SIU Indicators <DevSiulIndicators>

Specifies whether indicators are available.

Datatype: **Closed Enum**

### Enumerated Values

Value	Description	Is default
Yes		N
No		N
NotSupported		N

---

### Device Sensors and Indicators State <DevSiulIndicatorState>

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">DevSiuOpenClose</a>	Open Enum	Required	Device SIU Open Close. The state of the open / close indicator.  Valid Values: Closed, Open, NotAvailable
<a href="#">DevSiuFasciaLight</a>	Open Enum	Required	Device SIU Fascia Light. The state of the fascia light.  Valid Values: On, Off, NotAvailable
<a href="#">DevSiuAudio</a>	Open Enum	Required	Device SIU Audio. The state of the audio indicator.  Valid Values: Off, KeyClick, Exclamation, Warning, Error, Critical, Continuous, NotAvailable
<a href="#">DevSiuHeating</a>	Open Enum	Required	Device SIU Heating. The state of the internal heating.  Valid Values: Off, On, NotAvailable
end Aggregate			

---

**Device SIU Internal Tamper Alarm Indicator <DevSiuIntTamper>**

The state of the tamper sensor of the internal alarm.

Valid Values: Off, On, NotAvailable.

Datatype: **Open Enum**

**Enumerated Values**

Value	Description	Is default
Off	There is no indication of tampering attempt.	N
On	There has been a tampering attempt.	N
NotAvailable	The status is not available.	N

---

**Device SIU Open Close <DevSiuOpenClose>**



The state of the open / close indicator.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Closed		N
Open		N
NotAvailable		N

---

### Device SIU Open Close <DevSiuOperation>

The state of the open / close indicator.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Closed		N
Open		N
NotAvailable		N

---

### Device SIU Operator Switch <DevSiuOperatorSwitch>

The state of the operator switch sensor.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Run		N
Maintenance		N
Supervisor		N
NotAvailable		N

---

**Device SIU Passbook Guidelight <DevSiuPassbookGuidelight>**

The state of the passbook printer guidelight.

Datatype: **Open Enum**

**Enumerated Values**

Value	Description	Is default
Off		N
SlowFlash		N
MediumFlash		N
QuickFlash		N
Continuous		N
NotAvailable		N

---

**Device SIU Proximity <DevSiuProximity>**

The state of the proximity detector.

Datatype: **Open Enum**

**Enumerated Values**

Value	Description	Is default
NotPresent		N
Present		N
NotAvailable		N

---

**Device SIU Receipt Guidelight <DevSiuReceiptGuidelight>**

The state of the receipt printer guidelight.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Off		N
SlowFlash		N
MediumFlash		N
QuickFlash		N
Continuous		N
NotAvailable		N

---

### Device SIU Red LED <DevSiuRedLed>

The state of the red LED.

Datatype: **Closed Enum**

## Enumerated Values

Value	Description	Is default
Off		N
On		N
NotAvailable		N

---

### Device Sensors and Indicators Remote State <DevSiuRemoteState>

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">DevSiuGreenLed</a>	Closed Enum	Required	Device SIU Green LED. The state of the green LED.  Valid Values: Off, On, NotAvailable
<a href="#">DevSiuRedLed</a>	Closed Enum	Required	Device SIU Red LED. The state of the red LED.

			Valid Values: Off, On, NotAvailable
<a href="#">DevSiuAmberLed</a>	Closed Enum	Required	Device SIU Amber LED. The state of the amber LED.  Valid Values: Off, On, NotAvailable
end Aggregate			

---

### Device SIU Safe <DevSiuSafe>

The state of the safe door(s).

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
Closed		N
Open		N
Locked		N
Bolted		N
NotAvailable		N

---

### Device SIU Scanner Guidelight <DevSiuScannerGuidelight>

The state of the scanner guidelight.

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
Off		N
SlowFlash		N
MediumFlash		N
QuickFlash		N
Continuous		N
NotAvailable		N

---

### Device SIU Seismic <DevSiuSeismic>

The state of the seismic sensor.

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
Off		N
On		N
NotAvailable		N

---

### Device SIU Sensors <DevSiuSensors>

Specifies whether general sensors are available.

Datatype: **Closed Enum**

### Enumerated Values

Value	Description	Is default
Yes		N
No		N
NotSupported		N

---

### Device Sensors and Indicators Sensor State <DevSiuSensorState>

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes

begin Aggregate			
<a href="#">DevSiuOperatorSwitch</a>	Open Enum	Optional	Device SIU Operator Switch. The state of the operator switch sensor  Valid Values: Run, Maintenance, Supervisor, NotAvailable
<a href="#">DevSiuTamper</a>	Open Enum	Required	Device SIU Tamper  Valid values include: NotAvailable, Off, On
<a href="#">DevSiuIntTamper</a>	Open Enum	Optional	Device SIU Internal Tamper Alarm Indicator  Valid values include: NotAvailable, Off, On
<a href="#">DevSiuSeismic</a>	Open Enum	Required	Device SIU Seismic. The state of the seismic sensor  Valid Values: Off, On, NotAvailable
<a href="#">DevSiuHeat</a>	Open Enum	Required	Device SIU Heat. The state of the external heat (fire) sensor  Valid Values: Off, On, NotAvailable
<a href="#">DevSiuProximity</a>	Open Enum	Required	Device SIU Proximity. The state of the proximity detector  Valid Values: NotPresent, Present, NotAvailable
<a href="#">DevSiuAmbientLight</a>	Open Enum	Required	Device SIU Ambient Light. The state of the ambient light sensor  Valid Values: VeryDark, Dark, MediumLight, Light, VeryLight, NotAvailable
<a href="#">DevSiuEnhancedAudio</a>	Open Enum	Optional	Device SIU Enhanced Audio. The state of the enhanced (digital) audio headset sensor component.  Valid Values: HeadsetPresent, HeadsetNotPresent, NotAvailable,
end Aggregate			

---

### Device SIU Tamper <DevSiuTamper>

Device SIU Tamper. The state of the tamper sensor of the terminal.

Valid Values: Off, On, NotAvailable

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Off		N
On		N
NotAvailable		N

---

### Device Sensors and Indicators Type <DevSiuType>

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">DevSiuSensors</a>	Closed Enum	Required	Device SIU Sensors. Specifies whether general sensors are available.  Valid Values: Yes, No, NotSupported
<a href="#">DevSiuDoors</a>	Closed Enum	Required	Device SIU Doors. Specifies whether door sensors are available.  Valid Values: Yes, No, NotSupported
<a href="#">DevSiuIndicators</a>	Closed Enum	Required	Device SIU Indicators. Specifies whether indicators are available.  Valid Values: Yes, No, NotSupported
<a href="#">DevSiuGuidelights</a>	Closed Enum	Required	Device SIU Guidelights. Specifies whether guidelights are available.  Valid Values: Yes, No, NotSupported
<a href="#">DevSiuAuxiliary</a>	Closed Enum	Required	Device SIU Auxiliary. Specifies whether auxiliary sensors are available.  Valid Values: Yes, No, NotSupported
end Aggregate			

---

### Device SIU Uninterruptable Power Supply <DevSiuUps>

The state of the uninterruptable power supply.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Available		N
Low		N
Engaged		N
Powering		N
Recovered		N
NotAvailable		N

---

### Device SIU Vandal Shield <DevSiuVandalShield>

The state of the vandal shield.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Closed		N
Open		N
Locked		N
Service		N
Keyboard		N
Ajar		N
Jammed		N
NotAvailable		N

---

### Device SIU Volume <DevSiuVolume>

An integer (0-1000) indicating the audio volume level.  
0 = Off, 1=Minimum volume, 1000=Maximum volume.

Datatype: **Long**



---

## Device Status Aggregate <DevStatus>

Device Status Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">DevStatusCode</a>	Open Enum	Required	Device Status Code <hr/> Valid values include: Deleted, Fatal, Healthy, Suspend, Valid, Warning
<a href="#">StatusDesc</a>	C-255	Optional	Status Description
<a href="#">EffDt</a>	DateTime	Optional	Effective Date Time
<a href="#">StatusModBy</a>	Open Enum	Optional	Status Modified By <hr/> Valid values include: BPP, BPPSR, BSP, BPSR, CPP, CPPSR, CSP, CSPSR, Customer, FI, PSP
<a href="#">DevDetail</a>	Abstract Aggregate	Optional	<b>Valid Aggregates are:</b> DevDetailAlm DevDetailApp DevDetailCam DevDetailCdm DevDetailChk DevDetailCim Device Detail DevDetailDep DevDetaildc DevDetaillpm DevDetailPIN DevDetailPtr DevDetailSiu DevDetailTtu DevDetailVdm
<a href="#">DevPlatformData</a>	Aggregate	Optional	Device Platform Data
end Aggregate			

---

## Device Status Code <DevStatusCode>

State-of-Health (SOH) of the devices to return. Devices returned should contain one of DevStatusCode values included in this request. For

example if two DevStatusCode values are included in this inquiry with values of Warning and Fatal, the devices are filtered to only return devices with a status of Warning and Fatal.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Healthy		N
Warning		N
Fatal		N
Valid		N
Deleted		N
Suspend		N

---

## Device Status Record Aggregate <DevStatusRec>

Device Status Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">DevId</a>	Identifier	Required	Device Identifier
<a href="#">DevStatus</a>	Aggregate	Required	Device Status Aggregate
end Aggregate			

---

## Device Keyboard Status <DevTtuKbd>

The state of the keyboard at time of alert.

Datatype: **Closed Enum**

## Enumerated Values

---

Value	Description	Is default
On		N
Off		N
NotAvailable		N

---

### Device Keyboard Lock <DevTtuKbdLock>

The state of the keyboard lock at time of alert.

Datatype: **Closed Enum**

### Enumerated Values

Value	Description	Is default
On		N
Off		N
NotAvailable		N

---

### Device Terminal Unit Led <DevTtuLed>

The state of the leds at time of alert.If an LED is present this element should be returned. The order of the LED?s listed is significant.

Datatype: **Closed Enum**

### Enumerated Values

Value	Description	Is default
Off		N
BlinkingSlowly		N
MediumFlash		N
QuickFlash		N
Continuous		N
NotAvailable		N

---

### Device Terminal Unit Operation <DevTtuOperation>

The operation being performed at the time the alert is raised. It is strongly recommended that the following defined values are used rather than custom values in order to ensure maximum portability.

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
Write		N
Read		N
Reset		N
NotSupported		N

---

### Device Terminal Unit Type <DevTtuType>

Type of Text Terminal Unit/Ttu.

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
Fixed		N
Removable		N

---

### Device Type <DevType>

Device Type to return (i.e. as defined by Aggregates). For example if two DevType values are included in this inquiry with values of Idc and Ptr, the devices are filtered to only return devices that contain and aggregates.

Datatype: **Closed Enum**

## Enumerated Values

Value	Description	Is default
ldc		N
Ptr		N
Cdm		N
PIN		N
Chk		N
Dep		N
Ttu		N
Siu		N
Vdm		N
Cam		N
Alm		N
Ceu		N
Cim		N
App		N

---

### Device VDM Operation <DevVdmOperation>

The operation being performed at the time the alert is raised. It is strongly recommended that the following defined values be used rather than custom values in order to ensure maximum portability.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Enter		N
Exit		N

---

### Device VDM Service State <DevVdmServiceState>

The state of the VDM Service at time of alert.

Datatype: **Closed Enum**

## Enumerated Values

Value	Description	Is default
EnterPending		N
ExitPending		N
Active		N
Inactive		N

---

### Default days to pay <DfltDaysToPay>

The default number of days required when paying by check. Does not include transfers. See <DaysToPay>.

Datatype: **Long**

---

### Default Payment Information <DfltPmtData>

Default Payment Information . Used to add default payment information when adding a new payee. This would not be included when paying a bill unless the user was also adding a new payee at the same time.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">FromAcctRef</a>	Aggregate	Optional	From Account Reference
<a href="#">Category</a>	C-40	Optional	Default Category for Payments. May be modified by the client.
<a href="#">Memo</a>	C-255	Optional	Default Memo for Payments. May be modified by the client.
end Aggregate			

---

### Disclosure Accept Date <DiscAcceptDt>

Disclosure Accept Date

Datatype: **DateTime**

---

**Disclosure Acknowledge Type <DiscAckType>**

Disclosure Acknowledge Type

Datatype: **Open Enum**

**Enumerated Values**

Value	Description	Is default
Accepted		Y
OptedIn		N
OptedOut		N
Rejected		N

---

**Disclosure Date <DiscDt>**

The last date that the disclosure was changed.

Datatype: **Date**

---

**Disclosure Environment Aggregate <DiscEnvr>**

Disclosure Environment Aggregate

Extends: [BaseEnvr](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin	Elements	from	BaseEnvr

<a href="#">CreatedDt</a>	DateTime	Required	Created Date/Time. The date/time the object was created.
<a href="#">CreateRefldent</a>	NC-36	Optional	An identifier used to uniquely identify the creation of this object to the system that created the object. This will usually be a link to reference information used in creating the object.
<a href="#">ClientCreateDt</a>	DateTime	Optional	The created date/time as reported by the client. This can vary from the object creation date/time due to time zone differences, communication delays, etc
<a href="#">ClientBusinessDt</a>	DateTime	Optional	The date/time that the client recorded this object for operational purposes. This date/time will often be used to manage the availability of information or funds.
<a href="#">LastUpdateDt</a>	DateTime	Optional	Last update Date/Time. The date/time the object was created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LastUpdateRqUID</a>	UUID	Optional	Last update RqUID. The RqUID from the message that resulted in the object being created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LoginName</a>	C-40	Optional	The login name (or Id) of the individual that authorized this object to be created. This is typically used when the object is created on behalf of its owner by someone who is not normally represented as a Party (i.e., an employee or agent).
<a href="#">PartyKeys</a>	Aggregate	Optional	Reference to the Party that this object is owned by or authorized by.
<a href="#">CardKeys</a>	Aggregate	Optional	This is dependent on Card proposal. Currently this is implemented as the CardLogicalData aggregate.
<a href="#">PassbkKeys</a>	Aggregate	Optional	Currently PassbkAcceptData.
<a href="#">NetworkTrnData</a>	Aggregate	Optional	Network Transaction Information. Identification and location of the terminal from which the message originates.
<a href="#">ServerTerminalSeqNum</a>	NC-36	Optional	Server Terminal Sequence Number. A terminal sequence number generated by the server to identify this object. This number is used in ATM and POS environments to uniquely identify transactions (with terminal name and date) for transaction management.



<a href="#">PointOfServiceData</a>	Aggregate	Optional	The Point of Service Data. This aggregate contains information about the environment in which this message originated.
<a href="#">ClientTerminalSeqNum</a>	NC-36	Optional	Client Terminal Sequence Number. A terminal sequence number generated by the client to identify this object. This number is used in ATM, POS, Branch, Call Center and Teller environments to uniquely identify transactions at the client (with terminal name and date). This number is often required when requesting supporting documentation related to a customer transaction.
end Elements from BaseEnvr			
begin Aggregate			
end Aggregate			

---

### Disclosure Identifier <DisclId>

Disclosure Identifier

Datatype: **Identifier**

---

### Disclosure Identifier <DisclIdent>

A Disclosure is identified as a particular version of a named disclosure. The version is often, but not necessarily, a formatted date string.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">DiscName</a>	C-64	Optional	Disclosure Name
<a href="#">Version</a>	NC-12	Optional	The version of the object or item.
end Aggregate			

---

## Disclosure Information Aggregate <DisclInfo>

Disclosure Information Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">DiscName</a>	C-64	Required	Disclosure Name
<a href="#">Version</a>	NC-12	Optional	The version of the object or item.
begin-xor		Required	
<a href="#">LongText</a>	C-unbound	Required	Disclosure Text.
<a href="#">DiscURL</a>	URL	Required	Disclosure URL. The address for obtaining human-readable disclosure information.
end-xor			
end Aggregate			

---

## Disclosure Request Message <DisclnqRq>

Disclosure Inquiry Request Message. Used to retrieve disclosures.

See the matching response message [DisclnqRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">DocCtrlIn</a>	Aggregate	Optional	Document Control Input
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
begin-xor		Optional Repeating	
<a href="#">DiscSel</a>	Aggregate	Required	Disclosure Selection Aggregate
	IfxPath		

<a href="#">RecSelect</a>		Required	Record Select
end-xor			
end Aggregate			

---

### Disclosure Response Message <DisclnqRs>

The SP Server responds with disclosure details.

See the matching request message [DisclnqRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">DocCtrlOut</a>	Aggregate	Optional	Document Control Output
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">DiscRec</a>	Aggregate	Required Repeating	Disclosure Record Aggregate
end-block			
end Aggregate			

---

### Disclosure Keys Aggregate <DiscKeys>

Disclosure Keys Aggregate

Extends: [BaseKeys](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseKeys			

end Elements from BaseKeys			
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
begin-xor		Required	
<a href="#">DisclD</a>	Identifier	Required	Disclosure Identifier
<a href="#">DisclDent</a>	Aggregate	Required	Disclosure Identifier
end-xor			
end Aggregate			

---

### Disclosure Name <DiscName>

Disclosure Name

Datatype: **C-64**

---

### Discount <Discount>

Discount Information

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">Rate</a>	Decimal	Required	Discount Percentage.
<a href="#">CurAmt</a>	Aggregate	Required	Discount Currency Amount.
end-xor			
<a href="#">EffDt</a>	DateTime	Optional	Discount Date.
<a href="#">Desc</a>	C-80	Optional	Discount Description.
end Aggregate			

---

## Disclosure Record Aggregate <DiscRec>

Disclosure Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">DiscId</a>	Identifier	Required	Disclosure Identifier
<a href="#">DiscInfo</a>	Aggregate	Required	Disclosure Information Aggregate
<a href="#">DiscEnvr</a>	Aggregate	Optional	Disclosure Environment Aggregate
<a href="#">DiscStatus</a>	Aggregate	Required	Disclosure Status Aggregate
end Aggregate			

---

## Disclosure Reference Aggregate <DiscRef>

Disclosure Reference Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">DiscKeys</a>	Aggregate	Required	Disclosure Keys Aggregate
<a href="#">DiscRec</a>	Aggregate	Required	Disclosure Record Aggregate
<a href="#">DiscInfo</a>	Aggregate	Required	Disclosure Information Aggregate
end-xor			
end Aggregate			

---

## Disclosure Required <DiscReqd>

Disclosure Required. If True, the biller requires that their disclosure be presented to the customer prior to account activation. If False, the presentment of the disclosure is not required prior to the account activation request. This may be False if no disclosure is required or when the biller wishes to return the disclosure in the account activation response.

Datatype: **Boolean**

### Disclosure Selection Aggregate <DiscSel>

Disclosure Selection Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required Repeating	
<a href="#">DiscKeys</a>	Aggregate	Required	Disclosure Keys Aggregate
end-xor			
end Aggregate			

### Disclosure Status Aggregate <DiscStatus>

Disclosure Status Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">DiscStatusCode</a>	Open Enum	Required	Disclosure Status Code  Valid values include: Deleted, Valid
<a href="#">StatusDesc</a>	C-255	Optional	Status Description
<a href="#">EffDt</a>	DateTime	Optional	Effective Date Time
	NC-36		

<a href="#">ApprovalIdent</a>		Optional	Approval Identifier
<a href="#">StatusModBy</a>	Open Enum	Optional	Status Modified By  Valid values include: BPP, BPPSR, BSP, BPSR, CPP, CPPSR, CSP, CSPSR, Customer, FI, PSP
end Aggregate			

---

### Disclosure Status Code <DiscStatusCode>

Disclosure Status Code

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
Valid		N
Deleted		N

---

### Disclosure Status Record Aggregate <DiscStatusRec>

Disclosure Status Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">DisclId</a>	Identifier	Required	Disclosure Identifier
<a href="#">DiscStatus</a>	Aggregate	Required	Disclosure Status Aggregate
end Aggregate			

---

## Disclosure URL <DiscURL>

The address for obtaining human-readable disclosure information.

Datatype: **URL**

---

## Dispute Action <DisputeAction>

The current action being taken for the dispute in order to progress the resolution.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Arbitration	Dispute in Arbitration	N
AssessFee	Assess fee for dispute	N
Chargeback	Initiate chargeback of transaction to merchant	N
CreditAdj	Credit the dispute amount into the party?s account	N
DebitAdj	Debit the dispute amount into the party?s account	N
Opened	Dispute opened	Y
RequestDoc	Request transaction documentation from merchant	N
Resolved	Dispute resolved and closed	N
WriteOff	WriteOff the disputed amount	N

---

## Dispute Add Message <DisputeAddRq>

Dispute Add Message

See the matching response message [DisputeAddRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier



<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">DisputeInfo</a>	Aggregate	Required	Dispute Information Aggregate
end Aggregate			

---

### Dispute Add Response <DisputeAddRs>

Dispute Add Response

See the matching request message [DisputeAddRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">DisputeRec</a>	Aggregate	Required	Dispute Record
<a href="#">DisputeStatusRec</a>	Aggregate	Required	Dispute Status Record
end-xor			
end-block			
end Aggregate			

---

### Dispute Amount <DisputeAmt>

The transaction amount the party is disputing. Can be a partial or full amount of original transaction amount.

Extends: [CurAmt](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes

begin Elements from CurAmt			
<a href="#">Amt</a>	Decimal	Optional	Amount.
<a href="#">CurCode</a>	Aggregate	Optional	Currency Code
end Elements from CurAmt			
begin Aggregate			
end Aggregate			

---

### Dispute Delete Request <DisputeDelRq>

Dispute Delete Request

See the matching response message [DisputeDelRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">DisputeKeys</a>	Aggregate	Required	Dispute Keys Aggregate
end Aggregate			

---

### Dispute Delete Response <DisputeDelRs>

Dispute Delete Response

See the matching request message [DisputeDelRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status

<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">DisputeRec</a>	Aggregate	Required	Dispute Record
<a href="#">DisputeStatusRec</a>	Aggregate	Required	Dispute Status Record
end-xor			
end-block			
end Aggregate			

## Dispute Environment Aggregate <DisputeEnvr>

Dispute Environment Aggregate

Extends: [BaseEnvr](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseEnvr			
<a href="#">CreatedDt</a>	DateTime	Required	Created Date/Time. The date/time the object was created.
<a href="#">CreateRefIdent</a>	NC-36	Optional	An identifier used to uniquely identify the creation of this object to the system that created the object. This will usually be a link to reference information used in creating the object.
<a href="#">ClientCreateDt</a>	DateTime	Optional	The created date/time as reported by the client. This can vary from the object creation date/time due to time zone differences, communication delays, etc
<a href="#">ClientBusinessDt</a>	DateTime	Optional	The date/time that the client recorded this object for operational purposes. This date/time will often be used to manage the availability of information or funds.
<a href="#">LastUpdateDt</a>	DateTime	Optional	Last update Date/Time. The date/time the object was created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
	UUID		

<a href="#">LastUpdateRqUID</a>		Optional	Last update RqUID. The RqUID from the message that resulted in th object being created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LoginName</a>	C-40	Optional	The login name (or Id) of the individual that authorized this object to be created. This is typically used when the object is created on behalf of its owner by someone who is not normally represented as a Party (i.e., an employee or agent).
<a href="#">PartyKeys</a>	Aggregate	Optional	Reference to the Party that this object is owned by or authorized by.
<a href="#">CardKeys</a>	Aggregate	Optional	This is dependent on Card proposal. Currently this is implemented as the CardLogicalData aggregate.
<a href="#">PassbkKeys</a>	Aggregate	Optional	Currently PassbkAcceptData.
<a href="#">NetworkTrnData</a>	Aggregate	Optional	Network Transaction Information. Identification and location of the terminal from which the message originates.
<a href="#">ServerTerminalSeqNum</a>	NC-36	Optional	Server Terminal Sequence Number. A terminal sequence number generated by the server to identify this object. This number is used in ATM and POS environments to uniquely identify transactions (with terminal name and date) for transaction management.
<a href="#">PointOfServiceData</a>	Aggregate	Optional	The Point of Service Data. This aggregate contains information about the environment in which this message originated.
<a href="#">ClientTerminalSeqNum</a>	NC-36	Optional	Client Terminal Sequence Number. A terminal sequence number generated by the client to identify this object. This number is used in ATM, POS, Branch, Call Center and Teller environments to uniquely identify transactions at the client (with terminal name and date). This number is often required when requesting supporting documentation related to a customer transaction.
end Elements from BaseEnvr			
begin Aggregate			
end Aggregate			

### Dispute Identifier <Disputeld>

Dispute Identifier

Datatype: **Identifier**

---

### Dispute Identifier <Disputeldent>

Datatype: **NC-36**

---

### Dispute Information Aggregate <DisputelInfo>

Dispute Information Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">Disputeldent</a>	NC-36	Optional	Dispute Identifier
<a href="#">DisputeAmt</a>	Aggregate	Required	Dispute Amount
<a href="#">DisputeReason</a>	Open Enum	Optional	Dispute Reason  Valid values include: AmtIncorrect, AnnualFeeDispute, BalDispute, CashAdvAmtHigh, CashAdvCopy, CashAdvDesclnCorrect, CashAdvDuplicate, CashAdvFeeDispute, CashAdvNotReceived, CashAdvNotRecognized, CreditAmtHigh, CreditAmtLow, CreditAsDebit, CreditLate, CreditNotPosted, CreditNotReceived, DebitAfterCancel, DeliveryDispute, Duplicate, ExceededFloorLimit, ExcessCredit, ExpiredCard, FeeDispute, GoodsNotAsOrdered, GoodsNotReceived, InterestDispute, LateFeeDispute, LostStolenCard, NoCardExceptionFile,

			NotRecognized, OverlimitFeeDispute, PaidOtherMeans, PmtAfterGraceDt, PmtAmtHigh, PmtAmtLow, PmtNotPosted, PmtNotRecognized, PmtPostedLate, PmtSplitIncorrect, PurchCancelled, PurchCopy, PurchDescWrong, PurchNotRecognized, QualityDispute, RecurPurchCancelled, RecurPurchNotRecognized, RecurPurchToCancel, RetPmtChkPost, RetPmtChkRedeposit, RetPmtDispute, RetPmtFeeDispute, StmtAddrWrong, StmtCopyFee, StmtFeeDispute, StmtLate, StmtNotReceived, TranNotAuthorized, TranNotPosted
<a href="#">DisputeSource</a>	Open Enum	Optional	Dispute Source  Valid values include: Internal, Letter, Other, Telephone
<a href="#">AcctTrnRef</a>	Aggregate	Optional	Account Transaction Reference Aggregate
<a href="#">DisputePriority</a>	Open Enum	Optional	Dispute Priority  Valid values include: Bureau, Executive, High, Irate, Legal, Low, Normal, VIP  Default Value: Normal
begin-block		Optional Repeating	
<a href="#">DisputeAction</a>	Open Enum	Required	Dispute Action  Valid values include: Arbitration, AssessFee, Chargeback, CreditAdj, DebitAdj, Opened, RequestDoc, Resolved, WriteOff  Default Value: Opened
<a href="#">ActionEnteredDt</a>	Date	Required	Action Entered Date
<a href="#">ActionDueDt</a>	Date	Optional	Action Due Date
<a href="#">ActionCompletionDt</a>	Date	Optional	Action Completion Date
end-block			
<a href="#">ResolveDt</a>	Date	Optional	Resolve Date
begin-block		Optional Repeating	
<a href="#">ResolveAction</a>	Open Enum	Optional	Resolve Action  Valid values include: BelowChargebackMin, Duplicate, FIIdent, Merchant, Other, Party,

			PastDueDate
<a href="#">ResolveAmt</a>	Aggregate	Optional	Resolve Amount
end-block			
begin-block		Optional Repeating	
<a href="#">AdjustDt</a>	Date	Optional	Adjust Date
<a href="#">DebitRef</a>	Aggregate	Optional	Debit Reference Aggregate
<a href="#">CreditRef</a>	Aggregate	Optional	Credit Reference Aggregate
end-block			
begin-block		Optional Repeating	
<a href="#">DocRequestDt</a>	Date	Optional	Document Request Date
<a href="#">DocRequestReason</a>	Aggregate	Optional	Document Request Reason
<a href="#">DocRequestType</a>	Open Enum	Optional	Document Request Type  Valid values include: Fax, GovernmentID, Hardcopy, Itemized, Log, Original, Photocopy, Substitute
<a href="#">DeliveryInstruction</a>	Aggregate	Optional	Delivery Instruction
<a href="#">DocReceivedDt</a>	Date	Optional	Document Received Date
<a href="#">DocumentDetail</a>	Aggregate	Optional	Document Detail
<a href="#">DocNotReceivedReason</a>	Aggregate	Optional	Document Not Received Reason
end-block			
begin-block		Optional Repeating	
<a href="#">ChargebackDt</a>	Date	Optional	Chargeback Date
<a href="#">ChargebackReason</a>	Aggregate	Optional	Chargeback Reason
<a href="#">ChargebackAmt</a>	Aggregate	Optional	Chargeback Amount
<a href="#">ChargebackEditExcl</a>	Aggregate	Optional	Chargeback Edit Exclusion
<a href="#">ChargebackText</a>	C-50	Optional	Chargeback Text
end-block			
<a href="#">DisputeItems</a>	Aggregate	Optional Repeating	Dispute Items
begin-block		Optional	
<a href="#">ArbitrationAmt</a>	Aggregate	Optional	Arbitration Amount
<a href="#">ArbitrationStartDt</a>	Date	Optional	Arbitration Start Date
<a href="#">ArbitrationEndDt</a>	Date	Optional	Arbitration End Date
<a href="#">ArbitrationStat</a>	Open Enum	Optional	Arbitration Status Code  Valid values include: Declined , Expired , Pending , RulingAgainst ,

			RulingFor
end-block			
begin-block		Optional	
<a href="#">WriteOffDt</a>	Date	Optional	Write Off Date
<a href="#">WriteOffAmt</a>	Aggregate	Optional	Write Off Amount
<a href="#">WriteOffReason</a>	C-80	Optional	Account WriteOff Reason
<a href="#">WriteOffRespParty</a>	C-80	Optional	Account WriteOff Responsible Party
end-block			
<a href="#">Fee</a>	Aggregate	Optional Repeating	Fee
end Aggregate			

---

### Dispute Inquiry Request <DisputelnqRq>

Dispute Inquiry Request

See the matching response message [DisputelnqRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">DocCtrlIn</a>	Aggregate	Optional	Document Control Input
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
begin-xor		Optional Repeating	
<a href="#">DisputeSel</a>	Aggregate	Required	Dispute Selection Aggregate
<a href="#">RecSelect</a>	IfxPath	Required	Record Select
end-xor			
end Aggregate			

---

### Dispute Inquiry Response <DisputelnqRs>



## Dispute Inquiry Response

See the matching request message [DisputeInqRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">DocCtrlOut</a>	Aggregate	Optional	Document Control Output
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">DisputeRec</a>	Aggregate	Required Repeating	Dispute Record
end-block			
end Aggregate			

---

## Dispute Items <DisputeItems>

Information about the Item in dispute

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RepresentationDt</a>	Date	Optional	Representation Date
<a href="#">RepresentationAmt</a>	Aggregate	Optional	Representation Amount
<a href="#">AcctTrnRef</a>	Aggregate	Optional	Account Transaction Reference Aggregate
end Aggregate			

---

## Dispute Keys Aggregate <DisputeKeys>

Dispute Keys Aggregate

Extends:[BaseKeys](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseKeys			
end Elements from BaseKeys			
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
begin-xor		Required	
<a href="#">Disputeld</a>	Identifier	Required	Dispute Identifier
begin-block		Required	
begin-xor		Required	
<a href="#">AcctKeys</a>	Aggregate	Required	Account Keys Aggregate
<a href="#">CardKeys</a>	Aggregate	Required	Card Keys Aggregate
end-xor			
<a href="#">Disputeldent</a>	NC-36	Optional	Dispute Identifier
end-block			
end-xor			
end Aggregate			

---

## Dispute Modify Request <DisputeModRq>

Dispute Modify Request

See the matching response message [DisputeModRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
	Aggregate		

<a href="#">DisputeKeys</a>		Required	Dispute Keys Aggregate
begin-block		Required Repeating	
<a href="#">DisputeInfo</a>	Aggregate	Required	Dispute Information Aggregate
begin-xor		Optional Repeating	
<a href="#">DelElements</a>	lfxPath	Required	An lfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to delete. It is an error if one attempts to delete Required fields.
<a href="#">UpdElements</a>	lfxPath	Required	An lfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to update. The new value of the updated element is in the accompanying xxxInfo aggregate.
<a href="#">NewElements</a>	lfxPath	Required	An lfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to add. The new value of the new elements is in the accompanying xxxInfo aggregate.
end-xor			
end-block			
end Aggregate			

## Dispute Modify Response <DisputeModRs>

Dispute Modify Response

See the matching request message [DisputeModRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">DisputeRec</a>	Aggregate	Required	Dispute Record

<a href="#">DisputeStatusRec</a>	Aggregate	Required	Dispute Status Record
end-xor			
end-block			
end Aggregate			

---

### Dispute Priority <DisputePriority>

Dispute Priority

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
Bureau	Bureau Issue	N
Executive	Complaint made to executive	N
High	High priority	N
Irate	Party Irate	N
Legal	Legal Issue	N
Low	Low priority	N
Normal	Normal priority	Y
VIP	VIP party	N

---

### Dispute Reason <DisputeReason>

Dispute Reason

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
AmtIncorrect	Amount of transaction incorrect	N
AnnualFeeDispute	Annual Fee Disagreement	N
BalDispute	Balance Disagreement	N
CashAdvAmtHigh	Cash Advance Amount Incorrect (Too High)	N
CashAdvCopy	Party Wants Copy of Cash Advance	N
CashAdvDescIncorrect	Cash Advance Description Incorrect	N

CashAdvFeeDispute	Cash Advance Fee Disagreement	N
CashAdvDuplicate	Double Billed Cash Advance	N
CashAdvNotReceived	Cash Not Delivered	N
CashAdvNotRecognized	Not Party?s Cash Advance	N
CreditAmtHigh	Credit Amount Too High	N
CreditAmtLow	Credit Amount Too Low	N
CreditAsDebit	A credit was processed as a debit	N
CreditLate	Credit Posted Late	N
CreditNotReceived	Credit not received	N
CreditNotPosted	Credit Not Posted	N
DebitAfterCancel	Debit completed after cancel of transaction	N
Duplicate	Transaction duplicated	N
DeliveryDispute	Delivery Disagreement	N
ExceededFloorLimit	Exceeded floor limit permitted for stand-in	N
ExcessCredit	Excess Credit	N
ExpiredCard	Expired Card	N
FeeDispute	Challenge fee transaction posted to account	N
GoodsNotAsOrdered	Goods or services not as ordered	N
GoodsNotReceived	Goods or services not received	N
InterestDispute	Interest Disagreement	N
LateFeeDispute	Late Payment Fee Disagreement	N
LostStolenCard	Transaction made on lost stolen card	N
NoCardExceptionFile	Card not on card exception file	N
NotRecognized	Party does not recognize transaction	N
OverlimitFeeDispute	Overlimit Fee Disagreement	N
PaidOtherMeans	Transaction was paid with other means	N
PmtAfterGraceDt	Failure to Submit Payment Within Grace Period	N
PmtAmtHigh	Payment Amount Too High	N
PmtAmtLow	Payment Amount Too Low	N
PmtNotPosted	Payment Not Posted	N
PmtNotRecognized	Not Party?s Payment	N
PmtPostedLate	Payment Posted Late	N
PmtSplitIncorrect	Incorrect Split Payment	N
PurchCancelled	Cancelled/Returned Merchandise or Service	N
PurchCopy	Party Wants a Copy of the Sale Ticket	N
PurchDescWrong	Sale Description Incorrect	N
PurchNotRecognized	Not Party?s Purchase	N
QualityDispute	Quality Disagreement	N
RecurPurchNotRecognized	Recurring Sale Not Recognized	N
RecurPurchCancelled	Recurring Sale Cancelled	N
RecurPurchToCancel	Recurring Sale Wants to Cancel	N
RetPmtChkPost	Return Payment Check Posting	N
RetPmtChkRedeposit	Return Payment Check Redeposit	N
RetPmtDispute	Return Payment Disagreement	N
RetPmtFeeDispute	Return Payment Check Fee Disagreement	N
StmtAddrWrong	Statement Address Incorrect	N
StmtCopyFee	Statement Copy Charge	N

StmntFeeDispute	Statement Fee Disagreement	N
StmntLate	Statement Late	N
StmntNotReceived	Statement Not Received	N
TranNotAuthorized	Transaction not authorized by institution	N
TranNotPosted	Transaction Not Posted	N

---

### Dispute Record <DisputeRec>

Dispute Record

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">DisputeId</a>	Identifier	Required	Dispute Identifier
<a href="#">DisputeInfo</a>	Aggregate	Required	Dispute Information Aggregate
<a href="#">DisputeEnvr</a>	Aggregate	Optional	Dispute Environment Aggregate
<a href="#">DisputeStatus</a>	Aggregate	Required	Dispute Status Aggregate
end Aggregate			

---

### Dispute Reference Aggregate <DisputeRef>

Dispute Reference Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">DisputeKeys</a>	Aggregate	Required	Dispute Keys Aggregate
<a href="#">DisputeRec</a>	Aggregate	Required	Dispute Record
<a href="#">DisputeInfo</a>	Aggregate	Required	Dispute Information Aggregate
end-xor			

end Aggregate

## Dispute Selection Aggregate <DisputeSel>

Dispute Selection Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required Repeating	
<a href="#">DisputeKeys</a>	Aggregate	Required	Dispute Keys Aggregate
begin-block		Required	
<a href="#">AcctKeys</a>	Aggregate	Optional	Account Keys Aggregate
<a href="#">CardKeys</a>	Aggregate	Optional	Card Keys Aggregate
<a href="#">AcctTrnKeys</a>	Aggregate	Optional	Account Transaction Keys Aggregate
<a href="#">SelectDtRange</a>	Aggregate	Optional Repeating	Identifies which date and date range to be used in the selection criteria
<a href="#">DisputeAction</a>	Open Enum	Optional	Dispute Action  Valid values include: Arbitration, AssessFee, Chargeback, CreditAdj, DebitAdj, Opened, RequestDoc, Resolved, WriteOff  Default Value: Opened
<a href="#">DisputeStatusCode</a>	Open Enum	Optional	Dispute Status Code  Valid values include: Cancelled, Closed, Deleted, Opened, Pending
end-block			
end-xor			
end Aggregate			

## Dispute Source <DisputeSource>

Dispute Source

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Internal	Internal	N
Letter	Letter	N
Other	Other source	N
Telephone	Telephone	N

---

### Dispute Status Aggregate <DisputeStatus>

Dispute Status Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">DisputeStatusCode</a>	Open Enum	Required	Dispute Status Code Valid values include: Cancelled, Closed, Deleted, Opened, Pending
<a href="#">StatusDesc</a>	C-255	Optional	Status Description
<a href="#">EffDt</a>	DateTime	Optional	Effective Date Time
<a href="#">StatusModBy</a>	Open Enum	Optional	Status Modified By Valid values include: BPP, BPPSR, BSP, BPSR, CPP, CPPSR, CSP, CSPSR, Customer, FI, PSP
end Aggregate			

---

### Dispute Status Code <DisputeStatusCode>

Dispute Status Code

Datatype: **Open Enum**



## Enumerated Values

Value	Description	Is default
Cancelled	Cancelled	N
Closed	Closed	N
Deleted	Deleted	N
Opened	Opened	N
Pending	Pending	N

---

### Dispute Status Inquiry Request <DisputeStatusInqRq>

Dispute Status Inquiry Request

See the matching response message [DisputeStatusInqRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
begin-xor		Optional Repeating	
<a href="#">DisputeSel</a>	Aggregate	Required	Dispute Selection Aggregate
<a href="#">RecSelect</a>	IfxPath	Required	Record Select
end-xor			
end Aggregate			

---

### Dispute Status Inquiry Response <DisputeStatusInqRs>

Dispute Status Inquiry Response

See the matching request message [DisputeStatusInqRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">DisputeStatusRec</a>	Aggregate	Optional Repeating	Dispute Status Record
end-block			
end Aggregate			

---

### Dispute Status Modify Request <DisputeStatusModRq>

Dispute Status Modify Request

See the matching response message [DisputeStatusModRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">DisputeKeys</a>	Aggregate	Required	Dispute Keys Aggregate
<a href="#">DisputeStatus</a>	Aggregate	Required	Dispute Status Aggregate
end Aggregate			

---

### Dispute Status Modify Response <DisputeStatusModRs>

Dispute Status Modify Response

See the matching request message [DisputeStatusModRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">DisputeStatusRec</a>	Aggregate	Required	Dispute Status Record
end-block			
end Aggregate			

---

**Dispute Status Record <DisputeStatusRec>**

Dispute Status Record

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">Disputeld</a>	Identifier	Required	Dispute Identifier
<a href="#">DisputeStatus</a>	Aggregate	Required	Dispute Status Aggregate
end Aggregate			

---

**Distance Unit <DistanceUnit>**

Indicates how the the ?distance? fields are expressed.

Datatype: **Open Enum**

**Enumerated Values**

Value	Description	Is default
Miles		N
Kilometers		N

---

### Document Control Input <DocCtrlIn>

Document Control Input

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">DeliveryInstruction</a>	Aggregate	Optional	Delivery Instruction
<a href="#">PageCountLimit</a>	Aggregate	Optional	PageCount Limit Aggregate
end Aggregate			

---

### Document Control Output <DocCtrlOut>

Document Control Output

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SentPageCount</a>	Long	Optional	Sent Page Count
end Aggregate			

---

### Document Not Received Reason <DocNotReceivedReason>

The reason the request for the original documentation for the transaction was not fulfilled by the merchant.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">Brand</a>	Open Enum	Required	Card Brand <hr/> Valid values include: AmEx, CarteBancaire, Discover, JCB, MasterCard, PrivateLabel, VISA
end Aggregate			

---

**Document Not Received Reason Code**  
<DocNotReceivedReasonCode>

The reason the request for the original documentation for the transaction was not fulfilled by the merchant. The valid values are specified by the brand.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
-------	-------------	------------

---

**Document Received Date <DocReceivedDt>**

The date on which the original documentation for the transaction was received from the merchant

Datatype: **Date**

---

**Document Request Date <DocRequestDt>**

The date on which the original documentation for the transaction is requested from the merchant

Datatype: **Date**

---

### Document Request Reason <DocRequestReason>

The reason provided to the merchant for the request of the original documentation for the transaction.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">Brand</a>	Open Enum	Required	Card Brand <hr/> Valid values include: AmEx, CarteBancaire, Discover, JCB, MasterCard, PrivateLabel, VISA
end Aggregate			

---

### Document Request Reason Code <DocRequestReasonCode>

The reason code provided to the merchant for the request of the original documentation for the transaction. The valid values are specified by the brand.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
-------	-------------	------------

---

### Document Request Type <DocRequestType>

The type of document requested from the merchant to verify the transaction details

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Fax	Fax	N
GovernmentID	Proof of government ID	N
Hardcopy	Hardcopy	N
Itemized	Itemized Document	N
Log	Transaction Log	N
Original	Original Receipt	N
Photocopy	Photocopy	N
Substitute	Substitute Receipt	N

---

### Document Detail <DocumentDetail>

Details and/or location of document provided.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">DocumentDetailText</a>	C-unbound	Optional	Document Detail Text
<a href="#">DocumentDetailImg</a>	Aggregate	Optional	Document Detail Image
<a href="#">DocumentDetailURL</a>	URL	Optional	Document Detail URL
end Aggregate			

---

### Document Detail Image <DocumentDetailImg>

Image of the document provided.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			

end Aggregate

---

**Document Detail Text <DocumentDetailText>**

Text related to the document provided.

Datatype: **C-unbound**

---

**Document Detail URL <DocumentDetailURL>**

URL of document provided.

Datatype: **URL**

---

**Document Verify Type <DocumentVerifyType>**

Type of verification performed

Datatype: **Open Enum**

**Enumerated Values**

Value	Description	Is default
Verified		N
Unverified		Y

---

**Domestic Transfer Fee Currenty Amount <DomXferFeeCurAmt>**

Standard fee for a domestic transfer.



Extends: [CurAmt](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from CurAmt			
<a href="#">Amt</a>	Decimal	Optional	Amount.
<a href="#">CurCode</a>	Aggregate	Optional	Currency Code
end Elements from CurAmt			
begin Aggregate			
end Aggregate			

---

### **Do Not Solicit Indicator <DoNotSolicitInd>**

Indicates if contact information can be used for solicitation.

Datatype: **Boolean**

---

### **Drivers License Lost <DriversLicenseLost>**

Identifies if the driver's license was lost with the reported card.

Datatype: **Boolean**

---

### **Date Range <DtRange>**

This aggregate identifies the start date and/or the end date.

Extended By: [DueDtRange](#), [PaidDtRange](#), [PrcDtRange](#), [SelectDtRange](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
-----	------	-------	---------------------------

begin Aggregate			
begin-or		Required	
<a href="#">StartDt</a>	DateTime	Required	Selection Start Date.
<a href="#">EndDt</a>	DateTime	Required	Selection End Date.
end-or			
end Aggregate			

---

### Due Date <DueDt>

Payment Due Date. The customer enters this date to represent the date the payment is due to arrive at the payee. May be modified by the customer.

Datatype: **Date**

---

### Due Date Range <DueDtRange>

This aggregate identifies the start date and/or the end due date as a selection criterion of items.

Extends: [DtRange](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from DtRange			
begin-or		Required	
<a href="#">StartDt</a>	DateTime	Required	Selection Start Date.
<a href="#">EndDt</a>	DateTime	Required	Selection End Date.
end-or			
end Elements from DtRange			
begin Aggregate			
end Aggregate			

---

**Duration <Duration>**

Specifies the duration of the time frame in the unit of measure indicated.

Examples: 2 h (hours), 120 min (minutes)

If neither nor are provided, assume time frame has no end.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">Count</a>	Long	Optional	Count
<a href="#">Unit</a>	Open Enum	Optional	Code which expresses the unit of measure that corresponds to the <Count>.  Valid values: Seconds, Minutes, Hours, Days, Weeks, Months, Years.
end Aggregate			

---

**Education Level <EducationLevel>**

Education Level. Degree or a number of years of schooling.

Datatype: **C-80**

---

**Effective Date Time <EffDt>**

Effective Date/Time. The date/time that an associated action resulting in a change of state or status of an object took effect.

Datatype: **DateTime**

---

## Effective Time Frame <EffTimeFrame>

The start and end date and time for which the associated activity is effective.

Extends: [TimeFrame](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from TimeFrame			
<a href="#">StartDt</a>	DateTime	Optional	Start Date
begin-xor		Optional	
<a href="#">EndDt</a>	DateTime	Required	End Date
<a href="#">Duration</a>	Aggregate	Required	Duration
end-xor			
<a href="#">AllDayEvent</a>	Boolean	Optional	All Day Event
<a href="#">RecurRule</a>	Aggregate	Optional Repeating	Defines a rule for events that recur in a specific defined pattern.
<a href="#">RecurException</a>	Aggregate	Optional Repeating	Indicates an exception to the recurrence rule.
end Elements from TimeFrame			
begin Aggregate			
end Aggregate			

---

## Effective Urgency <EffUrgency>

This element indicates the urgency that a terminal operation mode should take effect.

Datatype: **Closed Enum**

## Enumerated Values

Value	Description	Is default
Immediate	The operation mode of the terminal should be changed immediately.	N

CurrentTransactionEnd	The operation mode of the terminal should be changed at the end of the current transaction.	N
SessionEnd	The operation mode of the terminal should be changed at the end of the current Customer session. The current Customer will be allowed to continue the current transaction, and begin new transactions in this same session.	N

---

### Electronic Ticket Indicator <ElectronicTicketInd>

Indicates if an electronic ticket was issued.

Datatype: **Boolean**

---

### Email <Email>

Extends: [Locator](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from Locator			
end Elements from Locator			
begin Aggregate			
<a href="#">EmailType</a>	Open Enum	Optional	Email Type  Valid values include: Business, Other, Person  Default Value: Other
<a href="#">EmailAddr</a>	NC-128	Required	Email Address
end Aggregate			

---

### Email Address <EmailAddr>

This is a public Internet email address.

Datatype: **NC-128**

---

### **Email Type <EmailType>**

Email address type.

Datatype: **Open Enum**

### **Enumerated Values**

Value	Description	Is default
Business		N
Person		N
Other		Y

---

### **Emboss Corporate Name Indicator <EmbossCorpNameInd>**

Indicates if the Corporate name should be embossed on the child cards.

Datatype: **Boolean**

---

### **Emergency Card Request <EmergencyCardRequest>**

Indicates if an emergency replacement card was requested.

Datatype: **Boolean**

---

## Employee Identification <EmployeeIdent>

Employer Identification. This aggregate includes the Employer Name and the Employee Id. It is used for identification purposes.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">EmployerName</a>	C-80	Optional	Employer Name.
<a href="#">Desc</a>	C-80	Optional	A description of the type of identification. eg. Picture ID employee card.
<a href="#">EmployeeIdentNum</a>	NC-32	Required	Employee identification number
<a href="#">IssueLoc</a>	C-80	Optional	The location where the identification was issued.
<a href="#">IssueDt</a>	DateTime	Optional	Identification issue date
<a href="#">ExpDt</a>	DateTime	Optional	Identification expiry date
end Aggregate			

---

## Employee Identification Number <EmployeeIdentNum>

Datatype: **NC-32**

---

## Employer Name <EmployerName>

Datatype: **C-80**

---

## Employment <Employment>

Employment data aggregate.

## Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">EmploymentType</a>	Open Enum	Optional	Employment Type <hr/> Valid values include: Casual, Contract, Full, PartTime
<a href="#">OrgData</a>	Aggregate	Optional	Organization Data
<a href="#">Occupation</a>	C-50	Optional	Occupation
<a href="#">AnnualIncome</a>	Aggregate	Optional	Annual Income Amount
<a href="#">JobTitle</a>	C-32	Optional	Job Title.
<a href="#">TimeFrame</a>	Aggregate	Optional	The period of time a person has been employed with this employer.
end Aggregate			

---

### **Employment Type <EmploymentType>**

Work arrangement, number of hours worked

Datatype: **Open Enum**

## **Enumerated Values**

Value	Description	Is default
Full		N
PartTime		N
Contract		N
Casual		N

---

### **EMV Request Data <EMVRqData>**

This aggregate contains the EMV request data that is sent by the device, which supports EMV functionality, to the acquirer host in an EMV transaction authorization request message. The current EMV specification contains many more elements (for EMV supported transaction requests) than those specified here. The EMV data elements that are specified here



are the common 'sub-set' of the current EMV implementation by the device vendors who have chosen to support the EMV functionality.

The usage of all EMV data elements that are specified here is intentionally specified as 'Optional', although some data elements are required in order to verify the EMV support for a transaction request (and the usage column for these elements have the 'but see Description' comments specified).

The reasons for this is:

- The relationship between different device vendors and acquiring hosts might dictate different EMV data element requirements, and
- If a 'Required' EMV data element is not present in a transaction request, then the acquiring host might want to 'fall-back' on the alternate method of authorizing the transaction request. Therefore it is better that the decision to either proceed with the transaction request processing, using the alternate method of verification/authorization, or to decline the transaction request is left with the acquiring host.

With the introduction of the <EMVRqRawData> tag, all other tags in this aggregate can be removed, except for <IssScriptResultData>, for which there is no equivalent in the native EMV format. However, to simplify host processing, it is recommended that <Trk2EquivalentData> or <AppPan> are provided as well.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">EMVRqRawData</a>	HexBin-unbound	Optional	Contains all EMV request data (including data also provided in other IFX elements below) in TLV format as specified by EMVCo.
<a href="#">Trk2EquivData</a>	HexBin-20	Optional	Track 2 Equivalent Data. Indicates the Track 2 Data as read from the Integrated Circuit Card (ICC). The format of this data is according to ISO/IEC 7813 standards, excluding start sentinel, end sentinel, and LRC. It includes the following data elements: Primary account Number (PAN), a variable length numeric character string of up to 19 characters; Field Separator (hex "D" value); Expiration Date in YYMM format, a 4-character numeric string; Service Code, a 3-character string; Discretionary Data (define by individual payment systems), a variable length character string of up to 12 characters; and the last character is "padded" with hex. 'F', if needed to ensure whole bytes.  The data associated with this element is not needed if the Track 2 data

			already contains this information elsewhere in the transaction message.
<a href="#">AppPan</a>	HexBin-20	Optional	Application Primary Account Number (PAN). Indicates the valid cardholder account number, padded to the right with hex 'F' values. The data value contained by this element is in hexadecimal characters.  The data associated with this element is not needed if the <Trk2EquivData> already contains this information and is equivalent.
<a href="#">IssuerScriptResultData</a>	Aggregate	Optional Repeating	Issuer Script Result. Contains the results of executing Issuer Scripts received in a previous EMVRsData aggregate.  Required if the previous <EMVRsData> aggregate contained <IssScriptData>.
end Aggregate			

---

### EMV Request Raw Data <EMVRqRawData>

Contains all EMV request data in TLV format as specified by EMVCo.

Datatype: **HexBin-unbound**

---

### EMV Response Data <EMVRsData>

This aggregate contains the EMV response data that is returned by the acquirer host to the device, which supports EMV functionality, in an EMV transaction authorization response message. The EMV data elements that are specified here are the common 'super set' of the current EMV implementation by the device vendors who have chosen to support the EMV functionality.

With the introduction of the <EMVRsRawData> tag, all other tags in this aggregate can be removed, except for <AuthRsCode>, which is mandatory.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">EMVRsRawData</a>	HexBin-unbound	Optional	EMV Response Raw Data
<a href="#">AuthRsCode</a>	C-2	Required	<p>Authorization Response Code. A code that defines the disposition of an EMV response message.</p> <p>As a minimum, the codes reflecting the following responses should be defined in the response messages from the Issuer to the terminal: Online Approval, Online Decline, Referral (initiated by Issuer), and Capture Card.</p> <p>In addition, the terminal shall be able to generate (and transmit to the ICC) the codes reflecting the following new responses when transactions are not authorized online: Unable to go Online, Offline Approved; Unable to go Online, Offline Declined; Offline Approved; Offline Declined; Approval (after card-initiated referral); and Decline (after card-initiated referral).</p> <p>The codes are to be set by the individual payment systems.</p> <p>The terminal shall never modify the Authorization Response Code returned in the response message. The card's final decision is reflected in the Cryptogram Information Data and not in the Authorization Response Code.</p>
end Aggregate			

---

### EMV Response Raw Data <EMVRsRawData>

Contains all EMV response data in TLV format as specified by EMVCo.

Datatype: **HexBin-unbound**

---

### End Date <EndDt>

End Date. Indicates latest date for a range of dates.

Datatype: **DateTime**

---

**End Page Number <EndPageNum>**

Last page in a <PageRange>.

Datatype: **Long**

---

**End Section Name <EndSectName>**

End Section Name

Datatype: **C-40**

---

**End Time <EndTime>**

Selection End Time.

Datatype: **Time**

---

**Enrollment Description <EnrollDesc>**

Enrollment Description. Instructions to customer for other enrollment process. For example, the customer services telephone number.

Datatype: **C-255**

---

**Enroll Profile <EnrollProf>**

The Banking Service &lt;BankSvc&gt;

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">WebEnrollURL</a>	URL	Optional	Web URL to start Enrollment Process in lieu of using the <CustAddRq> message.
<a href="#">EnrollDesc</a>	C-255	Optional	Enrollment Description. Instructions to customer for other enrollment process. For example, the customer services telephone number.
<a href="#">CryptType</a>	Open Enum	Optional Repeating	Encryption Type. Indicates which encryption types are supported for the secret list in the Enroll message.  Defined values: None, PKCS#1 , PKCS#7, PKCS#10, ECB, CBC, CFB, OFB, TECB, TCBC, TCBC-I, TCFB, TCFB-P, TOFB, TOFB-I, AECB, ACBC, ACFB, AOFB, ACM  Required if IFX in-band enrollment is supported.
<a href="#">SecretPrompt</a>	Aggregate	Optional Repeating	Secret Prompt.  If omitted, the SP does not require the customer to enter any secrets for client enrollment.
<a href="#">CustNameReqd</a>	Boolean	Optional	Customer Name Required Indicator. If set to True, SP requires that <CustName> or <PersonName> be included in <CustAddRq>.
<a href="#">PostAddrReqd</a>	Boolean	Optional	Customer Postal Address Required Indicator. If set to True, SP requires that <PostAddr> be included in <CustAddRq>.
end Aggregate			

---

**Environment <Environment>**

The environment that this customer interaction occurred under.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Unknown	Unknown transaction environment, assumed to be offline POS	N
Mail	Mail order transaction or inquiry	N
Telephone	Telephone order transaction or inquiry	N
ECommerce	Electronic commerce (i.e., internet) transaction or inquiry	N
MCommerce	Mobile commerce (i.e., cellular) transaction or inquiry	N
Recurring	Recurring transaction based on customer request	N
StoredData	Customer requested transaction based on stored data	N
POS	Point of sale	N
CAT	Customer activated terminal	N
ATM	Automated Teller Machine (ATM, ABM, etc.)	N
Deferred	Execution of a previously initiated transaction	N
Installment	Recurring transaction based on a purchase agreement	N

---

### Equivalent Currency Amount <EquivCurAmt>

The Equivalent Currency Amount is used to express a given currency amount in one or more alternate currencies which are equivalent to a given basis monetary amount. The currency of the basis amount is typically considered "local" to the monetary transaction. This aggregate can be used when it is necessary or desirable to provide a pre-calculated equivalent amount in an alternate currency. The equivalent amount may either substitute for the foreign exchange rate of the base currency and the alternate currency or it may be considered additional information about the exchange.

In cases where both the calculated Equivalent Currency Amount and an exchange rate are provided for a given amount but do not match arithmetically, the behavior is server-dependent. The service provider may do one of the following:

- use the equivalent amount; EquivCurAmt takes precedence over a computed amount at the given exchange rate
- use the exchange rate to compute; the exchange rate takes precedence over the stated EquivCurAmt. The EquivCurAmt is informational only.
- return an error; service provider is unable or unwilling to make a determination

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">EquivCurAmtType</a>	Open Enum	Optional	Equivalent Currency Amount Type  Valid values include: AcctCur, BillCur, CreditCur, DebitCur, PmtCur, SettleCur, XferCur
begin-or		Required	(One of the other or both must be provided)
<a href="#">CurAmt</a>	Aggregate	Required	The equivalent amount in the currency specified, may be supplied if known to provide the already calculated amount in the alternate currency.
<a href="#">ExchangeRate</a>	Aggregate	Required	In cases where both the calculated Equivalent Currency Amount and an exchange rate are provided for a given amount but do not match arithmetically, the behavior is server-dependent.
end-or			
end Aggregate			

**Equivalent Currency Amount Type <EquivCurAmtType>**

Indicates the type or purpose of the equivalent currency amount being provided.

If not provided, assume there is no specific purpose, it is just being provided for informational purposes.

Datatype: **Open Enum**

**Enumerated Values**

Value	Description	Is default
AcctCur	The currency of the referenced account	N
BillCur	The currency used in the referenced bill	N
CreditCur	The currency of the credit account	N
DebitCur	The currency of the debit account	N
PmtCur	The currency indicated in a payment	N
XferCur	The currency indicated in a transfer	N

SettleCur	The currency of the settlement network,	N
-----------	---	---

---

### Established Date <EstablishedDt>

Some IFX implementations may not use the Party-to-Party relationship object to manage relationships between the FI and its customers, or between a FI and its employees. For instance, they may use it only for managing relationships between one or more customers.

For IFX implementations using Party-to-Party relationships for Bank-to-Party relationships, this is the date when the Party was identified to the FI.

For IFX implementations not supporting Party-to-Party relationships for Bank-to-Party relationships, this is the date when the FI established a customer relationship with the Party. In this case, it is essentially used to capture information used in: "Customer since 1980".

Datatype: **Date**

---

### Exception Region <ExceptionRegion>

Identifies the geographic region of the card association in which a negative exception condition is to be additionally distributed. For Visa this corresponds to the Combined Warning Bulletin (CWB) and for MasterCard this corresponds to the Account Management RCL file.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
AsiaPacific	Asia and Pacific Regions	N
AfricaMiddleEast	Africa and Middle East Regions	N
AfricaMiddleEastSouthAsia	Africa, Middle East Regions, and South Asia Regions	N
Canada	Canada	N
C1	Canada Region 1	N
C2	Canada Region 2	N
C3	Canada Region 3	N
EuropeMiddleEast	Europe and Middle East Regions	N



LatinAmerica	Latin America and Caribbean Regions	N
NationalCRBInd	National CRB Indicator	N
NoLocation	Include in No Locations	N
OutsideUnitedStates	Include in all regions outside the United States	N
UnitedStates	Include in all regions within the United States	N
US1	United States Region 1	N
US2	United States Region 2	N
US3	United States Region 3	N
US4	United States Region 4	N
US5	United States Region 5	N
US6	United States Region 6	N
US7	United States Region 7	N
US8	United States Region 8	N
US9	United States Region 9	N
ALL	All Regions	N

---

### Exception Response <ExceptionResponse>

Provides the response for the exception condition to use for an authorization decision made by the card association on behalf of the financial institution

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
Collections	Decline the authorization due to a collections status condition	N
Counterfeit	Decline the authorization due to a counterfeit condition	N
Credit	Approve for credit transactions only	N
Decline	Decline the authorization	N
Fraud	Decline the authorization due to inspect/fraudulent condition	N
Lost	Decline the authorization due to a lost condition	N
Other	Decline the authorization for other reasons for being on the bank negative file	N
PickUp	Request retailer to take the card from the cardholder	N
PickUpSpecial	Request retailer to take the card from the cardholder for a special condition	N
Refertolssuer	Refer the cardholder to contact issuer	N
Stolen	Decline the authorization due to a stolen condition	N
Unauthorized	Decline the authorization due to an unauthorized use condition	N
VIPApproval	Approve the authorization for any limit because the	N

	cardholder is a VIP	
VIPApprovalA1	Approve the authorization up to a one-day or four-day limit of \$1500 because the cardholder is a VIP	N
VIPApprovalA2	Approve the authorization up to a one-day limit of \$2000 or four-day limit of \$3500 because the cardholder is a VIP	N
VIPApprovalA3	Approve the authorization up to a one-day limit of \$3000 or four-day limit of \$6000 because the cardholder is a VIP	N
VIPApprovalA4	Approve the authorization up to a one-day limit of \$4500 or four-day limit of \$8000 because the cardholder is a VIP	N
VIPApprovalA5	Approve the authorization up to a one-day limit of \$6000 or four-day limit of \$10000 because the cardholder is a VIP	N
VIPApprovalA6	Approve the authorization up to a one-day limit of \$8000 or four-day limit of \$14000 because the cardholder is a VIP	N
VIPApprovalA7	Approve the authorization up to a one-day limit of \$10000 or four-day limit of \$20000 because the cardholder is a VIP	N
VIPApprovalA8	Approve the authorization up to a one-day limit of \$1500 or four-day limit of \$2000 because the cardholder is a VIP	N
VIPApprovalA9	Approve the authorization up to a one-day limit of \$2225 or four-day limit of \$3500 because the cardholder is a VIP	N
VIPApprovalXA	Forward to issuer; default response to approve	N
VIPApprovalAD	Forward to issuer; default response to decline	N

## Exception Report Aggregate <ExceptionRpt>

Exception Report Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">ExceptionResponse</a>	Open Enum	Required	Exception Response  Valid values include: Collections, Counterfeit, Credit, Decline, Fraud, Lost, Other, PickUp, PickUpSpecial, RefertoIssuer, Stolen, Unauthorized, VIPApproval, VIPApprovalA1, VIPApprovalA2, VIPApprovalA3, VIPApprovalA4, VIPApprovalA5, VIPApprovalA6, VIPApprovalA7, VIPApprovalA8, VIPApprovalA9, VIPApprovalAD, VIPApprovalXA
<a href="#">PurgeDt</a>	Date	Required	The date the exception report should be purged from the exception condition response file
<a href="#">LimitAmt</a>	Aggregate	Optional	Identifies the maximum dollar amount to approve an authorization for a VIP.

begin-block		Optional Repeating	
<a href="#">ExceptionRegion</a>	Open Enum	Required	Exception Region  Valid values include: AfricaMiddleEast, AfricaMiddleEastSouthAsia, ALL, AsiaPacific, C1, C2, C3, Canada, EuropeMiddleEast, LatinAmerica, NationalCRBInd, NoLocation, OutsideUnitedStates, UnitedStates, US1, US2, US3, US4, US5, US6, US7, US8, US9
<a href="#">RegionPurgeDt</a>	Date	Optional	If this field is not included, then the region will use the same purge date as the exception file purge date.
end-block			
end Aggregate			

## Exchange Rate <ExchangeRate>

This aggregate is used to express an exchange rate to be applied between two currencies, along with related parameters that define how the rate is to be interpreted.

Extended By: [ForExHomeRate](#), [NewForExRate](#), [RequestedForExRate](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">ExchRate</a>	Decimal	Required	Currency Exchange Rate
<a href="#">BaseCurCode</a>	Aggregate	Optional	Base Currency Code
<a href="#">ContraCurCode</a>	Aggregate	Optional	Contra Currency Code
<a href="#">ExchConvertRule</a>	Closed Enum	Optional	Exchange Convert Rule  Valid values are limited to: Direct, Indirect
<a href="#">ExchRatePrecision</a>	Long	Optional	Exchange Rate Precision
<a href="#">ExchRateInvertPrec</a>	Long	Optional	Exchange Rate Inverted Precision
<a href="#">ExchMktConvertRule</a>	Closed Enum	Optional	Market Currency Conversion Indicator  Valid values are limited to: Direct, Indirect
<a href="#">ExchMktRatePrecision</a>	Long	Optional	Exchange Market Rate Precision
end Aggregate			

---

### Exchange Ticket <ExchangeTicket>

The original ticket number replaced by a new ticket number.

Datatype: **C-15**

---

### Exchange Convert Rule <ExchConvertRule>

This compound data type is used to express an exchange rate to be applied between two currencies, along with related parameters that define how the rate is to be interpreted. Currency Conversion Indicator. This value determines the position of the currency pairs in the exchange ratio. When the <ExchConvertRule> value does not match the <ExchMktConvertRule> this is an indication that the rate has been inverted from the market convention for that currency pair.

Direct:

Exchange Rate is expressed in terms one unit of base currency times Exchange Rate = 'x' units of counter currency.

When <ExchConvertRule> = Direct:

$$\langle \text{BaseAmt} \rangle * \langle \text{ExchRate} \rangle = \langle \text{CounterAmt} \rangle$$

Or, stated another way the ratio between the two currency is:  
Contra Currency / Base Currency

Indirect:

Exchange Rate is expressed in terms of one unit of base currency divided by Exchange Rate = 'y' units of counter currency.

When the convert rule is Indirect then

$$\langle \text{BaseAmt} \rangle / \langle \text{ExchRate} \rangle = \langle \text{CounterAmt} \rangle$$

Or, stated another way, the ratio between the two currency is:  
Base Currency / Contra Currency

Examples of how exchange rates for currency pairs are quoted:

“Direct” quote of EUR USD currency pair: EURUSD  
(i.e. 1 EUR = 1.25 USD)

“Indirect” quote for a CAD USD currency pair: USDCAD  
(i.e. 1 USD = 1.11 CAD)

“Direct” quote for a CAD USD currency pair: USDCAD  
(i.e. 1 CAD = .90 USD)

Datatype: **Closed Enum**

## Enumerated Values

Value	Description	Is default
Direct		N
Indirect		N

---

### Market Currency Conversion Indicator <ExchMktConvertRule>

This value indicates how the currency pair is quoted on the open currency market.

When a currency has been inverted from its market convention (i.e. to create “American” style quotes where all quotes are “Direct”) this value will not match the value in <ExchConvertRule>.

Examples of how exchange rate ratios for currency pairs are quoted on the open market:

Market convention for EUR USD currency pair is “Direct”: EURUSD (i.e. 1 EUR = 1.25 USD)

“Direct” quote:  
<ExchRate>1.2836</ExchRate>  
<ExchConvertRule>Direct</ExchConvertRule>

<ExchMktConvertRule>Direct</ExchMktConvertRule>

Market convention for a CAD USD currency pair is “Indirect”: USDCAD  
(i.e. 1 USD = 1.11CAD)

“Indirect” quote:  
<ExchRate>1.11</ExchRate>  
<ExchConvertRule>Indirect</ExchConvertRule>  
<ExchMktConvertRule>Indirect</ExchMktConvertRule>

“Direct” quote:  
<ExchRate>.90</ExchRate>  
<ExchConvertRule>Direct</ExchConvertRule>  
<ExchMktConvertRule>Indirect</ExchMktConvertRule>

Datatype: **Closed Enum**

## Enumerated Values

Value	Description	Is default
Direct		N
Indirect		N

---

### Exchange Market Rate Precision <ExchMktRatePrecision>

Indicates the number of decimal places (digits to the right of the decimal point) that are used to express the Exchange Rate in the open currency market.

When a rate is inverted from market convention the precision of the rate (i.e. number of decimal places) used to quote the rate is different from the market rate precision. Explicitly understanding the currency rate’s precision is necessary in order to correctly apply an additional spread to the rate, or how the currency should be quoted if it becomes necessary to invert the rate received from the FI.

Datatype: **Long**

---

### Currency Exchange Rate <ExchRate>

Indicates the number of units of a currency that is equivalent to one unit of another currency.

Datatype: **Decimal**

---

**Exchange Rate Inverted Precision <ExchRateInvertPrec>**

Indicates the number of decimal places (digits to the right of the decimal point) that the Exchange Rate should be expressed as if it is inverted.

Datatype: **Long**

---

**Exchange Rate Precision <ExchRatePrecision>**

Indicates the number of decimal places (digits to the right of the decimal point) that the Exchange Rate is expressed as.

Datatype: **Long**

---

**Expiration Date <ExpDt>**

Expiration Date. The date that a specific item will expire (e.g., Expiration date for a credit card, the date a bill detail URL will expire, the date and time a password expires, etc.). If a card has only month and year expiration, the last day of the month must be specified here. Specific use depends on context.

Datatype: **DateTime**

---

**Expected Availability <ExpectedAvailDt>**

Expected Availability . The terminal date/time that service is expected to be available from this Service Provider. A service is a collection of one or more messages. There is no obligation inferred.

Datatype: **DateTime**

---

**Expected Open DateTime <ExpectedOpenDt>**

Expected Open . The terminal date/time that the terminal operation mode is expected to return to "Open" if the operation mode is being changed to something other than "Open". There is no obligation inferred. A Terminal application could use this information to inform customers when the Terminal may again be available.

Datatype: **DateTime**

---

**Expedite Indicator <ExpediteInd>**

Indicates client is requesting transaction should be executed in an expedited manner.

Datatype: **Boolean**

---

**Extended Account Balance <ExtAcctBal>**

Extended Account Balance Aggregate. Used to report other balances for this statement end, such as Period Fee, Cashline, Outstanding Cash Advance Total, Cash Available, and Over Limit Amount

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">ExtBalType</a>	Open Enum	Required	Balance Type. Defined Values: PrepayPenalty, Orig, UnpaidAccruedInt, Redemption, YTDWithhold, LastYrWithhold, Overdraft, Overlimit, PastDue, CashLine, OutstandingCashAdv, CashAvail, PendAuthAmt, LastStmtBal, YTDInterest, LastYrInt, YTDfees, PeriodFees, LastYrFees, CashDepositAvail.
<a href="#">CurAmt</a>	Aggregate	Required	Balance Amount.
<a href="#">EffDt</a>	DateTime	Required	Balance DateTime.
	DateTime		



<a href="#">ExpDt</a>		Optional	Expiration Date of the Balance. For example, a payoff amount expiration date.
<a href="#">Desc</a>	C-80	Optional	Description.
end Aggregate			

## Extended Balance Type <ExtBalType>

Extended Balance Type.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Orig	Original Balance. The original balance of a loan or deposit account.	N
UnpaidAccruedInt	Unpaid Accrued Interest. Interest that has accrued during the cycle that has not yet been paid.	N
Redemption	The redemption amount of an account, typically a certificate of deposit.	N
YTDWithhold	Year to Date Withholding. Government required withholding of interest, typically a deposit account, due to lack of W-9, in US.	N
LastYrWithhold	Last Year?s Withholding The interest withholding amount from the previous tax year.	N
Overdraft	Overdraft Amount. The amount that an account is in overdraft, typically a negative balance on a checking account.	N
Overlimit	Over Limit Amount. The amount an account exceeds its credit limit, typically on a credit card or line-of-credit type account.	N
PastDue	Past Due Amount. The amount an account owes for if the payment is made past a due date.	N
CashLine	Cash Line. The cash amount available on a line-of-credit.	N
OutstandingCashAdv	Outstanding Cash Advances. The balance of all unpaid cash advances.	N
CashAvail	Cash Available. The amount of cash available on an account.	N
PendAuthAmt	Pending Authorization Amount. The total of all authorizations on a credit account that have not yet settled.	N
LastStmntBal	Last Statement Balance. The ending balance as of the last statement or cycle.	N
YTDInterest	Year to Date Interest. The amount of interest either paid or earned on an account in the current year.	N
LastYrInt	Last Year?s Interest. The amount of interest either paid	N

	or earned on an account in the previous tax year.	
YTD Fees	Year to Date Fees. The amount of fees paid on account in the current year,	N
Period Fees	Period Fees. The amount of all fees paid on an account in the current period or cycle.	N
Last Yr Fees	Last Year Fees. The amount of fees paid on an account in the previous tax year.	N
Cash Deposit Avail	Cash Deposit Available. The possible amount of cash that can be currently credited to the account.	N

---

**Family Name <FamilyName>**

Person's family name.

Datatype: **C-40**

---

**Fare Basis <FareBasis>**

A code that carriers assign to a particular ticket type, such as business class or discounted/nonrefundable.

Datatype: **C-15**

---

**Fee <Fee>**

The <Fee> aggregate identifies the type and amount of fee being charged.

The fee(s) required to execute the exchange may be provided to the customer for informational purposes.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin	Aggregate		

<a href="#">FeeType</a>	Open Enum	Required	Fee Type
<a href="#">CurAmt</a>	Aggregate	Optional	Currency Amount. When used for a fixed amount fee, this is the fixed amount that will be charged. For fees that are calculated as a fixed amount plus a percentage of the transaction, this is the fixed amount and the percentage is in Rate.
<a href="#">Rate</a>	Decimal	Optional	Fee rate. Used as a percentage (e.g. a value of 5.2 equals 5.2%).
<a href="#">MinCurAmt</a>	Aggregate	Optional	Minimum Currency Amount. The minimum amount to charge for this fee.
<a href="#">MaxCurAmt</a>	Aggregate	Optional	Maximum Currency Amount. The maximum amount to charge for this fee.
<a href="#">FeePlan</a>	C-80	Optional	Fee Plan
<a href="#">WaiveFeeInd</a>	Boolean	Optional	Waive Fee Indicator
<a href="#">FeeWaiver</a>	Aggregate	Optional	Fee Waiver
<a href="#">FeeAcctKeys</a>	Aggregate	Optional	Fee Account Keys
<a href="#">TimeFrame</a>	Aggregate	Optional	Time Frame
end Aggregate			

### Fee Account Keys <FeeAcctKeys>

Unique identifier for the account to which fee may be charged.

Extends: [AcctKeys](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from AcctKeys			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
begin-xor		Required	
<a href="#">AcctId</a>	Identifier	Required	Account Identifier
begin-block		Optional	
begin-xor		Optional	
<a href="#">BBAN</a>	NC-30	Required	Basic Bank Account Identifier
<a href="#">IBAN</a>	NC-34	Required	International Bank Account Number
<a href="#">UPIC</a>	NC-17	Required	Universal Payment Identification Code
<a href="#">CLABE</a>	C-18	Required	CLABE

<a href="#">CardMagData</a>	Aggregate	Required	Card Magnetic Stripe Data
<a href="#">CardKeys</a>	Aggregate	Required	Card Keys Aggregate
<a href="#">CardChipData</a>	Aggregate	Required	Card Chip Data
<a href="#">AcctIdent</a>	Aggregate	Required	Account Identifier Aggregate
end-xor			
<a href="#">AcctType</a>	Aggregate	Optional	Account Type
<a href="#">CurCode</a>	Aggregate	Optional	Currency Code
<a href="#">FIIdentType</a>	Open Enum	Optional	Financial Institution Identifier Type Valid values include: ABA, CHAPS, CHIPS, FedWire, SortCode, SWIFT
<a href="#">FIIdent</a>	NC-34	Optional	Financial Institution Identifier
<a href="#">BranchIdent</a>	NC-22	Optional	Branch Identifier
end-block			
end-xor			
end Elements from AcctKeys			
begin Aggregate			
end Aggregate			

---

### Fee Charge Allocation <FeeChargeAlloc>

Bank Fee allocation information. Used to specify Who pays for the fee and how it is being distributed.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">ChargeRegulation</a>	Open Enum	Required	Specify how the fee is distributed.
<a href="#">Fee</a>	Aggregate	Required	Fee Charge info and amount.
<a href="#">AcctKeys</a>	Aggregate	Optional	Account from which the bank fee is drawn.
end Aggregate			

---

### Fee Override <FeeOvr>

Indicates if the fee is to be overridden.

Datatype: **Boolean**

---

### Fee Override Amount <FeeOvrAmt>

Fee Override Amount

Extends: [CurAmt](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from CurAmt			
<a href="#">Amt</a>	Decimal	Optional	Amount.
<a href="#">CurCode</a>	Aggregate	Optional	Currency Code
end Elements from CurAmt			
begin Aggregate			
end Aggregate			

---

### Fee Plan <FeePlan>

Identifies a group of fees related to a pricing plan.

Datatype: **C-80**

---

### Fee Request Header <FeeRqHdr>

Fees request information for the message. It is not necessary to send a <FeeRqHdr> to receive a <FeeRsHdr>.

Multiple <FeeRqHdr> aggregates must only be used if a fee is split

between different accounts. For different fee types, a single <FeeRqHdr> with multiple <CompositeCurAmt> aggregates specifying the different fees must be used.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">DebitRef</a>	Aggregate	Required	Debit Reference Aggregate
<a href="#">CreditRef</a>	Aggregate	Required	Credit Reference Aggregate
<a href="#">AcctKeys</a>	Aggregate	Required	Account Keys Aggregate
end-xor			
<a href="#">ChargeRegulation</a>	Open Enum	Optional	Charge Regulation Valid values include: Payee, Payer, Share
end Aggregate			

---

### Fee Response Header <FeeRsHdr>

Fees response information for the message. This aggregate may be added by the server without a corresponding <FeesRqHdr> to indicate server generated fees.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">DebitRef</a>	Aggregate	Required	Debit Reference Aggregate
<a href="#">CreditRef</a>	Aggregate	Required	Credit Reference Aggregate
end-xor			
end Aggregate			

---

### Fee Type <FeeType>

The Open Enum values listed are intended as a representative sample.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
ForEx	Fee for foreign exchange	N
StopChk	Fee for issuing a stop check	N
Late	Fee for being late in payment	N
Transaction	Transaction Fee	N
Interchange	Interchange Fee	N
Surcharge	Surcharge Fee	N
Membership	Fee for membership	N
Overlimit	Fee for being over the credit limit.	N
LostStolen	Fee for a card lost or stolen request.	N
CardReplacement	Fee for a card replacement request.	N
ReturnedPayment	Fee for a returned payment.	N
Statement	Fee for producing a statement.	N
CashAdv	Fee for cash advance Transaction.	N
Purchase	Fee for purchase transaction.	N
Load	Fee for prepaid load.	N
Inactivity	Fee for inactivity.	N
Activation	Fee for card activation	N
Balancelnquiry	Fee for a balance inquiry	N

---

### Fee Waiver <FeeWaiver>

Indicates the rules for waiving a fee for a period of time or permanently.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">WaiverReason</a>	C-40	Optional	Waiver Reason
<a href="#">TimeFrame</a>	Aggregate	Optional	The timeframe to waive the fee for the account. If not specified the fee is waived permanently.
end Aggregate			

---

**FI Credit Trace Number <FICreditTrcNum>**

FI Credit Trace Number.

Datatype: **NC-7**

---

**Financial Institution Data Aggregate <FIData>**

The Financial Institution Data Aggregate contains additional information used to identify a bank, typically when used for payment transfers, payee requests, and wire transfers. It is required in CHE, DEU, and ITA to completely identify an account. Sufficient information must be provided within this aggregate to uniquely identify the bank at which the account is held. Failure to do so will result in an error being returned from the server.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">FIIdentType</a>	Open Enum	Optional	Financial Institution Identifier Type  Valid values include: ABA, CHAPS, CHIPS, FedWire, SortCode, SWIFT
<a href="#">FIIdent</a>	NC-34	Optional	Bank Identifier. Qualifies account number if known by the customer/client. Usage is expected to be routing and transit number in the US or the equivalent in an international implementation. This is required in USA.
<a href="#">RefData</a>	Aggregate	Optional Repeating	Additional Reference information to uniquely identify the bank.  Defined values for contained <RefType>: CountrySpecific, BankSpecific
<a href="#">Name</a>	C-40	Optional	Bank name, required in CHE, DEU, and ITA.
<a href="#">BranchIdent</a>	NC-22	Optional	Branch Identifier. Qualifies account number if known by the customer/client. Used to indicate which branch the account is with. Usage is expected to be primarily in countries where regulations require an account to be assigned to a branch office, but a US-based FI may also require this field for operational reasons.



<a href="#">BranchName</a>	C-40	Optional	Bank branch name, required in ITA.
<a href="#">PostAddr</a>	Aggregate	Optional	Bank Postal Address. Either <PostAddr> or broken-out <City>, <StateProv>, <PostalCode>, and/or <Country> may be used, but not both.
end Aggregate			

---

### FI Debit Trace Number <FIDebitTrcNum>

FI Debit Trace Number.

Datatype: **NC-7**

---

### Field Select <FieldSelect>

Selects specific fields or aggregates of records which should be returned to limit the amount of data returned in the response. If this element is present, only the selected fields and aggregates are returned, otherwise full records are returned.

Datatype: **lfxPath**

---

### Financial Institution Identifier <FIIdent>

Qualifies account number if required by FI in profile. Indicates which bank within a holding company the account is with. Usage is expected to be routing and transit number in the US or the equivalent in an international implementation.

Datatype: **NC-34**

---

## Financial Institution Identifier Type <FIIdentType>

Type of Financial Institution identifier

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
SWIFT	Society Worldwide International Funds Transfer	N
ABA	American Banker Association	N
FedWire	Federal Reserve Network	N
CHIPS	Clearing House Interbank Payment System	N
CHAPS	Clearing House Automated Payment System	N
SortCode	SortCode provided by Bank.	N

---

## File Record Number <FileRecordNum>

Record number of the correspondence on the image file.

Datatype: **C-40**

---

## Recurring Model Final Amount <FinalCurAmt>

Recurring Model Final Currency Amount. The currency amount for the final instance of a recurring payment, if it is different from the default instance amount.

Extends: [CurAmt](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from CurAmt			
<a href="#">Amt</a>	Decimal	Optional	Amount.
<a href="#">CurCode</a>	Aggregate	Optional	Currency Code
end Elements from CurAmt			
begin Aggregate			

end Aggregate

---

### Final Due Date <FinalDueDt>

Final Due Date.

This date is the date the final transfer or payment instance is due.

Datatype: **Date**

---

### Final Processing Date <FinalPrcDt>

Final Processing Date.

This date is the first date processing will be attempted for the final transfer or payment instance.

Datatype: **Date**

---

### Financial Amount <FinancialAmt>

Financial Amount

Extends: [CurAmt](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from CurAmt			
<a href="#">Amt</a>	Decimal	Optional	Amount.
<a href="#">CurCode</a>	Aggregate	Optional	Currency Code
end Elements from CurAmt			
begin Aggregate			
end Aggregate			

---

## Financial Data <FinancialData>

The Financial Data aggregate is used to identify monetary figures that can be used to determine a party's financial status

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">FinancialType</a>	Open Enum	Required	Financial Type Valid values include: Asset, Expense, Income, Liability, Revenue, Sales
<a href="#">FinancialSubType</a>	Open Enum	Optional	Financial SubType Valid values include: ContributionsToOverhead, Current, Depreciation, Disposable, Dividend, Gross, Investment, Net, Recurring, Tax, Turnover
<a href="#">Freq</a>	Open Enum	Optional	Frequency Valid values include: Annually, BiMonthly, Biweekly, Daily, EndOfMonth, FourWeeks, Monthly, Quarterly, SemiAnnually, TwiceMonthly, Weekly
<a href="#">FinancialAmt</a>	Aggregate	Required	Financial Amount
<a href="#">UpDt</a>	Timestamp	Required	Update Date Time
<a href="#">Desc</a>	C-80	Optional	Description
end Aggregate			

---

## Financial Reports URL <FinancialReportsURL>

URL from where company reports may be downloaded.

Datatype: **URL**

---

### Financial SubType <FinancialSubType>

Sub category of financial information.

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
Gross		N
Net		N
Disposable		N
Current		N
Investment		N
Tax		N
Recurring		N
Depreciation		N
Dividend		N
Turnover		N
ContributionsToOverhead		N

---

### Financial Type <FinancialType>

Categorization of financial information.

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
Income		N
Expense		N
Asset		N
Liability		N
Sales		N
Revenue		N

---

**First Fraud Transaction Date <FirstFraudTrnDt>**

The date of the first fraudulent transaction.

Datatype: **DateTime**

---

**First Use Date <FirstUseDt>**

The date the card was first used.

Datatype: **DateTime**

---

**Fiscal Year End <FiscalYearEnd>**

The end of the fiscal year.

Datatype: **Date**

---

**Fixing Date End Date <FixingDateEndDt>**

Used to retrieve a rate sheet where the fixing date is before the indicated date/time.

When used with <FixingDateStartDt> the rate sheet's <FixingDt> must be between the <FixingDateStartDt> and the <FixingDateEndDt>. If more than one rate sheet was generated within the specified range, the most-recent rate sheet is returned.

Datatype: **DateTime**

---

**Fixing Date Start Date <FixingDateStartDt>**

Used to retrieve a rate sheet where the fixing date is after the indicated date/time.

Datatype: **DateTime**

---

**Fixing Date <FixingDt>**

The date and time at which the daily rate sheet rate was established. This tag will only be present if the <ForExRateType> is a Daily Rate sheet rate.

Datatype: **DateTime**

---

**Flight Number <FlightNumber>**

The flight number, as defined by the carrier for each segment of travel.

Datatype: **C-5**

---

**Folio Number <FolioNumber>**

The card acceptor's internal invoice or billing ID reference number.

Datatype: **C-25**

---

**Font Type <FontIdent>**

The type of font used for the check personalization.

Datatype: **NC-36**

---

**ForExDealAddOperRq <ForExDealAddOperRq>**

ForExDealAddOper Request

See the matching response message [ForExDealAddOperRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">OperRqHdr</a>	Aggregate	Required	Operation Request Header
<a href="#">ForExDealAddRq</a>	Aggregate	Required Repeating	Foreign Exchange Deal Status Add Request
end Aggregate			

---

**ForExDealAddOperRs <ForExDealAddOperRs>**

ForExDealAddOper Response

See the matching request message [ForExDealAddOperRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">OperRsHdr</a>	Aggregate	Optional	Operation Response Header
begin-block		Optional	
<a href="#">ForExDealAddOperRs</a>	Aggregate	Required Repeating	ForExDealAddOper Response
end-block			
end Aggregate			



---

## Foreign Exchange Deal Status Add Request <ForExDealAddRq>

See the matching response message [ForExDealAddRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">ForExDealInfo</a>	Aggregate	Required	Foreign Exchange Deal Information
end Aggregate			

---

## Foreign Exchange Deal Status Add Response <ForExDealAddRs>

See the matching request message [ForExDealAddRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">ForExDealRec</a>	Aggregate	Required	Foreign Exchange Deal Record
<a href="#">ForExDealStatusRec</a>	Aggregate	Required	ForExDealStatusRec
end-xor			
end-block			
end Aggregate			

---

## Foreign Exchange Deal Status Advise Request <ForExDealAdviseRq>

See the matching response message [ForExDealAdviseRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
begin-xor		Required	
<a href="#">ForExDealRec</a>	Aggregate	Required	Foreign Exchange Deal Record
<a href="#">ForExDealStatusRec</a>	Aggregate	Required	ForExDealStatusRec
end-xor			
end Aggregate			

---

## Foreign Exchange Deal Status Advise Response <ForExDealAdviseRs>

See the matching request message [ForExDealAdviseRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">ForExDealRec</a>	Aggregate	Required	Foreign Exchange Deal Record

<a href="#">ForExDealStatusRec</a>	Aggregate	Required	ForExDealStatusRec
end-xor			
end-block			
end Aggregate			

---

### Foreign Exchange Deal Cancel Request <ForExDealCanRq>

See the matching response message [ForExDealCanRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">ForExDealKeys</a>	Aggregate	Required	Foreign Exchange Deal Keys Aggregate
end Aggregate			

---

### Foreign Exchange Deal Cancel Response <ForExDealCanRs>

See the matching request message [ForExDealCanRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
	Aggregate		

<a href="#">ForExDealRec</a>		Required	Foreign Exchange Deal Record
<a href="#">ForExDealStatusRec</a>	Aggregate	Required	ForExDealStatusRec
end-xor			
end-block			
end Aggregate			

## Foreign Exchange Deal Environment <ForExDealEnvr>

Foreign Exchange Deal Environment

Extends: [BaseEnvr](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseEnvr			
<a href="#">CreatedDt</a>	DateTime	Required	Created Date/Time. The date/time the object was created.
<a href="#">CreateRefIdent</a>	NC-36	Optional	An identifier used to uniquely identify the creation of this object to the system that created the object. This will usually be a link to reference information used in creating the object.
<a href="#">ClientCreateDt</a>	DateTime	Optional	The created date/time as reported by the client. This can vary from the object creation date/time due to time zone differences, communication delays, etc
<a href="#">ClientBusinessDt</a>	DateTime	Optional	The date/time that the client recorded this object for operational purposes. This date/time will often be used to manage the availability of information or funds.
<a href="#">LastUpdateDt</a>	DateTime	Optional	Last update Date/Time. The date/time the object was created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LastUpdateRqUID</a>	UUID	Optional	Last update RqUID. The RqUID from the message that resulted in the object being created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LoginName</a>	C-40	Optional	The login name (or Id) of the individual that authorized this object to be

			created. This is typically used when the object is created on behalf of its owner by someone who is not normally represented as a Party (i.e., an employee or agent).
<a href="#">PartyKeys</a>	Aggregate	Optional	Reference to the Party that this object is owned by or authorized by.
<a href="#">CardKeys</a>	Aggregate	Optional	This is dependent on Card proposal. Currently this is implemented as the CardLogicalData aggregate.
<a href="#">PassbkKeys</a>	Aggregate	Optional	Currently PassbkAcceptData.
<a href="#">NetworkTrnData</a>	Aggregate	Optional	Network Transaction Information. Identification and location of the terminal from which the message originates.
<a href="#">ServerTerminalSeqNum</a>	NC-36	Optional	Server Terminal Sequence Number. A terminal sequence number generated by the server to identify this object. This number is used in ATM and POS environments to uniquely identify transactions (with terminal name and date) for transaction management.
<a href="#">PointOfServiceData</a>	Aggregate	Optional	The Point of Service Data. This aggregate contains information about the environment in which this message originated.
<a href="#">ClientTerminalSeqNum</a>	NC-36	Optional	Client Terminal Sequence Number. A terminal sequence number generated by the client to identify this object. This number is used in ATM, POS, Branch, Call Center and Teller environments to uniquely identify transactions at the client (with terminal name and date). This number is often required when requesting supporting documentation related to a customer transaction.
end Elements from BaseEnvr			
begin Aggregate			
<a href="#">ForExDealIdent</a>	NC-250	Required	Foreign Exchange Deal Identifier
end Aggregate			

---

### Foreign Exchange Deal Identifier <ForExDealId>

Foreign Exchange Deal Identifier

Datatype: **Identifier**

---

### Foreign Exchange Deal Identifier <ForExDealIdent>

This is the customer's identifier for the Deal. The customer can use the ForExDealIdent to reference the contracted deal.

Datatype: **NC-250**

---

### Foreign Exchange Deal Information <ForExDealInfo>

Foreign Exchange Deal Information

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">ForExQuoteRef</a>	Aggregate	Required	This aggregate provides either a reference to an existing FX Quote or FX information that the server can use to create a new FX Quote record.
end Aggregate			

---

### Foreign Exchange Deal Inquiry Request <ForExDealInqRq>

See the matching response message [ForExDealInqRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header

<a href="#">DocCtrlIn</a>	Aggregate	Optional	Document Control Input
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
begin-xor		Optional Repeating	
<a href="#">ForExDealSel</a>	Aggregate	Required	Foreign Exchange Deal Status Selection Aggregate
<a href="#">RecSelect</a>	IfxPath	Required	Record Select
end-xor			
end Aggregate			

---

### Foreign Exchange Deal Inquiry Response <ForExDealInqRs>

See the matching request message [ForExDealInqRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">DocCtrlOut</a>	Aggregate	Optional	Document Control Output
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">ForExDealRec</a>	Aggregate	Required Repeating	Foreign Exchange Deal Record
end-block			
end Aggregate			

---

### Foreign Exchange Deal Keys Aggregate <ForExDealKeys>

Foreign Exchange Deal Keys Aggregate

Extends: [BaseKeys](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseKeys			
end Elements from BaseKeys			
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
begin-xor		Required	
<a href="#">ForExDealId</a>	Identifier	Required	Foreign Exchange Deal Identifier
<a href="#">ForExDealIdent</a>	NC-250	Required	Foreign Exchange Deal Identifier
end-xor			
end Aggregate			

---

**Foreign Exchange Deal Status Modify Request <ForExDealModRq>**

See the matching response message [ForExDealModRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">ForExDealKeys</a>	Aggregate	Required	Foreign Exchange Deal Keys Aggregate
begin-block		Required Repeating	
<a href="#">ForExDealInfo</a>	Aggregate	Required	Foreign Exchange Deal Information
begin-xor		Optional Repeating	
<a href="#">DelElements</a>	lfxPath	Required	An lfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to delete. It is an error if one attempts to delete Required fields.
<a href="#">UpdElements</a>	lfxPath	Required	An lfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to update. The new value of the updated element is in the



			accompanying xxxInfo aggregate.
<a href="#">NewElements</a>	lfxPath	Required	An lfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to add. The new value of the new elements is in the accompanying xxxInfo aggregate.
end-xor			
end-block			
end Aggregate			

---

### Foreign Exchange Deal Status Modify Response <ForExDealModRs>

See the matching request message [ForExDealModRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">ForExDealRec</a>	Aggregate	Required	Foreign Exchange Deal Record
<a href="#">ForExDealStatusRec</a>	Aggregate	Required	ForExDealStatusRec
end-xor			
end-block			
end Aggregate			

---

### Foreign Exchange Deal Record <ForExDealRec>

Foreign Exchange Deal Record

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">ForExDealId</a>	Identifier	Required	Foreign Exchange Deal Identifier
<a href="#">ForExDealInfo</a>	Aggregate	Required	Foreign Exchange Deal Information
<a href="#">ForExDealEnvr</a>	Aggregate	Optional	Foreign Exchange Deal Environment
<a href="#">ForExDealStatus</a>	Aggregate	Required	Foreign Exchange Deal Status
end Aggregate			

---

### Foreign Exchange Deal Status Reference Aggregate <ForExDealRef>

Foreign Exchange Deal Status Reference Aggregate

Extended By: [RelatedForExDealRef](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">ForExDealKeys</a>	Aggregate	Required	Foreign Exchange Deal Keys Aggregate
<a href="#">ForExDealRec</a>	Aggregate	Required	Foreign Exchange Deal Record
<a href="#">ForExDealInfo</a>	Aggregate	Required	Foreign Exchange Deal Information
end-xor			
end Aggregate			

---

### Foreign Exchange Deal Status Selection Aggregate <ForExDealSel>

Foreign Exchange Deal Status Selection Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			

begin-xor		Required Repeating	
<a href="#">ForExDealKeys</a>	Aggregate	Required	Foreign Exchange Deal Keys Aggregate
end-xor			
end Aggregate			

---

### Foreign Exchange Deal Status <ForExDealStatus>

Foreign Exchange Deal Status

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">ForExDealStatusCode</a>	Open Enum	Required	Foreign Exchange Deal Status Code Valid values include: Canceled, Complete, Confirmed, Deleted, Expired, Valid
<a href="#">StatusDesc</a>	C-255	Optional	Status Description
<a href="#">EffDt</a>	DateTime	Optional	Effective Date Time
<a href="#">StatusModBy</a>	Open Enum	Optional	Status Modified By Valid values include: BPP, BPPSR, BSP, BSPSR, CPP, CPPSR, CSP, CSPSR, Customer, FI, PSP
end Aggregate			

---

### Foreign Exchange Deal Status Code <ForExDealStatusCode>

Defines the status of the Deal.

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default

Confirmed	the deal has been booked against an established FX Rate Quote. The deal is awaiting settlement instructions.	N
Expired	the deal has expired and is no longer valid and no settlement instructions can be booked against this quote.	N
Canceled	the deal has been explicitly canceled and no settlement instructions can be booked against this quote.	N
Valid		N
Deleted		N
Complete	the deal has been booked against an established FX Rate Quote. The deal is awaiting settlement instructions.	N

---

### ForExDealStatusRec <ForExDealStatusRec>

ForExDealStatusRec

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">ForExDealId</a>	Identifier	Required	Foreign Exchange Deal Identifier
<a href="#">ForExDealStatus</a>	Aggregate	Required	Foreign Exchange Deal Status
end Aggregate			

---

### Foreign Exchange Home Rate <ForExHomeRate>

Foreign exchange rate used to convert the base currency to the requestor's local currency.

Should be returned on the Quote Response if the Quote Request contained a home currency amount aggregate (<HomeCurAmt>).

Extends: [ExchangeRate](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from ExchangeRate			
<a href="#">ExchRate</a>	Decimal	Required	Currency Exchange Rate

<a href="#">BaseCurCode</a>	Aggregate	Optional	Base Currency Code
<a href="#">ContraCurCode</a>	Aggregate	Optional	Contra Currency Code
<a href="#">ExchConvertRule</a>	Closed Enum	Optional	Exchange Convert Rule Valid values are limited to: Direct, Indirect
<a href="#">ExchRatePrecision</a>	Long	Optional	Exchange Rate Precision
<a href="#">ExchRateInvertPrec</a>	Long	Optional	Exchange Rate Inverted Precision
<a href="#">ExchMktConvertRule</a>	Closed Enum	Optional	Market Currency Conversion Indicator Valid values are limited to: Direct, Indirect
<a href="#">ExchMktRatePrecision</a>	Long	Optional	Exchange Market Rate Precision
end Elements from ExchangeRate			
begin Aggregate			
end Aggregate			

---

### Foreign Exchange Add Operation Request <ForExQuoteAddOperRq>

Foreign Exchange Add Operation Request

See the matching response message [ForExQuoteAddOperRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">OperRqHdr</a>	Aggregate	Required	Operation Request Header
<a href="#">ForExQuoteAddRq</a>	Aggregate	Required Repeating	Foreign Exchange Quote Add Message
end Aggregate			

---

### Foreign Exchange Add Operation Response <ForExQuoteAddOperRs>

Foreign Exchange Add Operation Response

See the matching request message [ForExQuoteAddOperRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">OperRsHdr</a>	Aggregate	Optional	Operation Response Header
begin-block		Optional	
<a href="#">ForExQuoteAddRs</a>	Aggregate	Required Repeating	Foreign Exchange Quote Add Response
end-block			
end Aggregate			

---

### Foreign Exchange Quote Add Message <ForExQuoteAddRq>

Contains information about the Foreign Exchange FX Rate Quote request. Will repeat twice when swap pricing or two-way pricing are requested.

See the matching response message [ForExQuoteAddRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">ForExQuoteInfo</a>	Aggregate	Required	Foreign Exchange Quote Information
end Aggregate			

---

### Foreign Exchange Quote Add Response <ForExQuoteAddRs>

Contains information about the Foreign Exchange FX Rate Quote request. A <ForExQuoteAddRs> will be created for each <ForExQuoteAddRq> found in the associated request message.

See the matching request message [ForExQuoteAddRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">ForExQuoteRec</a>	Aggregate	Required	Foreign Exchange Quote Record
<a href="#">ForExQuoteStatusRec</a>	Aggregate	Required	Foreign Exchange Quote Status Record
end-xor			
end-block			
end Aggregate			

---

**Foreign Exchange Quote Advise Message <ForExQuoteAdviseRq>**

This message is issued by the server as a request to a client to advise of an existing FX Rate Quote.

See the matching response message [ForExQuoteAdviseRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
begin-xor		Required	
<a href="#">ForExQuoteRec</a>	Aggregate	Required	Foreign Exchange Quote Record
<a href="#">ForExQuoteStatusRec</a>	Aggregate	Required	Foreign Exchange Quote Status Record
end-xor			
end Aggregate			

---

## Foreign Exchange Quote Advise Response <ForExQuoteAdviseRs>

This message is issued as a response to the FX Rate Quote Advise request.

See the matching request message [ForExQuoteAdviseRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">ForExQuoteRec</a>	Aggregate	Required	Foreign Exchange Quote Record
<a href="#">ForExQuoteStatusRec</a>	Aggregate	Required	Foreign Exchange Quote Status Record
end-xor			
end-block			
end Aggregate			

---

## Foreign Exchange Quote Cancel Request <ForExQuoteCanRq>

See the matching response message [ForExQuoteCanRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">ForExQuoteKeys</a>	Aggregate	Required	Foreign Exchange Quote Keys Aggregate



end Aggregate

---

## Foreign Exchange Quote Cancel Response <ForExQuoteCanRs>

See the matching request message [ForExQuoteCanRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">ForExQuoteRec</a>	Aggregate	Required	Foreign Exchange Quote Record
<a href="#">ForExQuoteStatusRec</a>	Aggregate	Required	Foreign Exchange Quote Status Record
end-xor			
end-block			
end Aggregate			

---

## Foreign Exchange Quote Environment <ForExQuoteEnvr>

Foreign Exchange Quote Environment

Extends: [BaseEnvr](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseEnvr			
<a href="#">CreatedDt</a>	DateTime	Required	Created Date/Time. The date/time the object was created.
<a href="#">CreateRefIdent</a>	NC-36	Optional	An identifier used to uniquely identify the creation of this object to the

			system that created the object. This will usually be a link to reference information used in creating the object.
<a href="#">ClientCreateDt</a>	DateTime	Optional	The created date/time as reported by the client. This can vary from the object creation date/time due to time zone differences, communication delays, etc
<a href="#">ClientBusinessDt</a>	DateTime	Optional	The date/time that the client recorded this object for operational purposes. This date/time will often be used to manage the availability of information or funds.
<a href="#">LastUpdateDt</a>	DateTime	Optional	Last update Date/Time. The date/time the object was created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LastUpdateRqUID</a>	UUID	Optional	Last update RqUID. The RqUID from the message that resulted in th object being created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LoginName</a>	C-40	Optional	The login name (or Id) of the individual that authorized this object to be created. This is typically used when the object is created on behalf of its owner by someone who is not normally represented as a Party (i.e., an employee or agent).
<a href="#">PartyKeys</a>	Aggregate	Optional	Reference to the Party that this object is owned by or authorized by.
<a href="#">CardKeys</a>	Aggregate	Optional	This is dependent on Card proposal. Currently this is implemented as the CardLogicalData aggregate.
<a href="#">PassbkKeys</a>	Aggregate	Optional	Currently PassbkAcceptData.
<a href="#">NetworkTrnData</a>	Aggregate	Optional	Network Transaction Information. Identification and location of the terminal from which the message originates.
<a href="#">ServerTerminalSeqNum</a>	NC-36	Optional	Server Terminal Sequence Number. A terminal sequence number generated by the server to identify this object. This number is used in ATM and POS environments to uniquely identify transactions (with terminal name and date) for transaction management.
<a href="#">PointOfServiceData</a>	Aggregate	Optional	The Point of Service Data. This aggregate contains information about the environment in which this message originated.

<a href="#">ClientTerminalSeqNum</a>	NC-36	Optional	Client Terminal Sequence Number. A terminal sequence number generated by the client to identify this object. This number is used in ATM, POS, Branch, Call Center and Teller environments to uniquely identify transactions at the client (with terminal name and date). This number is often required when requesting supporting documentation related to a customer transaction.
end Elements from BaseEnvr			
begin Aggregate			
<a href="#">ForExQuotIdent</a>	NC-250	Optional	Foreign Exchange Quote Identifier
<a href="#">NewForExRate</a>	Aggregate	Required	Foreign Exchange Rate
<a href="#">ForExHomeRate</a>	Aggregate	Optional	Foreign Exchange Home Rate
<a href="#">ForwardPts</a>	Decimal	Optional	Forward Points
<a href="#">EffTimeFrame</a>	Aggregate	Required	The start and end date and time for which the currency rate is effective. After the end date/time indicated in this aggregate the currency rate is no longer valid or guaranteed by the rate issuer.
<a href="#">FixingDt</a>	DateTime	Optional	Fixing Date
<a href="#">SmallBankNoteDenom</a>	Decimal	Optional	Small Bank Note Denomination
<a href="#">FundingDueDt</a>	DateTime	Optional	Funding Due Date
end Aggregate			

---

### Foreign Exchange Quote Identifier <ForExQuotId>

Foreign Exchange Quote Identifier

Datatype: **Identifier**

---

### Foreign Exchange Quote Identifier <ForExQuotIdent>

This is the customer's identifier for the quote. The customer can reference the ForExQuotIdent to book the contract.

Datatype: **NC-250**

**Foreign Exchange Quote Information <ForExQuoteInfo>**

Contains information about the Foreign Exchange FX Rate Quote request.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">ForExQuoteType</a>	Open Enum	Optional	Foreign Exchange Quote Type  Valid values include: Drawdown, FXFuture, FXNetTrade, FXOption, FXTrade, Multi-Trade, Offset, SwapFarLeg, SwapNearLeg, TimeDeposit, Two-Way  Default Value: FXTrade
<a href="#">ForExRateType</a>	Closed Enum	Optional	Foreign Exchange Rate Type  Valid values are limited to: Committed, Future, Indicated, Spot  Default Value: Indicated
<a href="#">BuySellIndicator</a>	Closed Enum	Required	Buy Sell Indicator  Valid values are limited to: Buy, Sell
<a href="#">BidOffer</a>	Closed Enum	Optional	Bid Offer  Valid values are limited to: Bid, Offer
<a href="#">BaseCurCode</a>	Aggregate	Required	Base Currency Code
<a href="#">BaseCurAmt</a>	Decimal	Optional	The amount of base currency, if this amount is known.  This is the amount currency to be bought or sold. If the base amount is not known, only the base currency code is specified, i.e. Buy 'x' EUR with 1000 USD.  If this amount is provided on the request, then a value cannot be provided in <ContraCurAmt> (i.e. either the base or contra amount can be provided on the request, never both).
<a href="#">ContraCurCode</a>	Aggregate	Required	Contra Currency Code

<a href="#">ContraCurAmt</a>	Decimal	Optional	<p>The amount of contra (counter) currency, if this amount is known.</p> <p>This is the currency used to fund the transaction. If the counter amount is not known, only the contra currency code is specified, i.e. Buy 1000 EUR with 'x' USD.</p> <p>If an amount is provided in a request, then a value cannot be provided in &lt;BaseCurAmt&gt; (i.e. either the base or contra amount can be provided on the request, never both).</p>
<a href="#">HomeCurCode</a>	Aggregate	Optional	<p>The requestor's local currency code.</p> <p>In a Foreign Exchange Quote Add Request message only the Home Currency Code may be specified; this indicates that the requestor would like the amount converted into a Home Currency Amount on the Response.</p>
<a href="#">HomeCurAmt</a>	Decimal	Optional	<p>Equivalent amount expressed in the requestor's local currency. Typically only shown on a QuoteAdd response message.</p> <p>Used when value of the amount must be expressed on a system of record in a local currency for accounting purposes and the local currency is something other than the currencies involved in the exchange. For example: a Canadian company purchases EUR with USD. EUR is the base currency and USD is the contra currency. However, the true cost of purchasing the EUR is realized on the Canadian company's GL in CAD.</p> <p>The Home currency tags may also be used to express the value of a currency being phased out as part of a EUR conversion. If the currency being phased out is still traded on the FX market (for instance SIT – Slovakian Tolars) then the value of the SIT must also be expressed in EUR.</p> <p>In order to understand how the Home Currency Amount was derived, a &lt;ForExHomeRate&gt; is provided in the &lt;ForExQuoteEnvr&gt; aggregate.</p>
<a href="#">ForExValDtType</a>	Closed	Required	Foreign Exchange Value Date Type

	Enum		Valid values are limited to: Cash, Forward, Spot, Tomorrow, Window
begin-xor		Optional	
<a href="#">ForExValDt</a>	DateTime	Required	The requested value date. Used for Forward type deals. Required if <ForExValDtType>= Forward  Do not use in request if <ForExValDtType> = Spot, Cash, Tomorrow, Window
<a href="#">ForExValDtTimeFrame</a>	Aggregate	Required	The requested start and end date of the Deal. Used for Window and Option type deals ONLY.  The StartDt and EndDt of the timeframe must both be present. It is expected that only StartDt and EndDt from the TimeFrame aggregate will be used.
end-xor			
<a href="#">ReceivingMethod</a>	Open Enum	Optional	Receiving Method  Valid values include: Account, BankNotes, Draft, EFT, SSI
<a href="#">FundingMethod</a>	Open Enum	Optional	Funding Method  Valid values include: Account, BankNotes, Draft, EFT, SSI
<a href="#">TranDt</a>	Date	Optional	The transaction date of the FX Deal.  When provided in the request this indicates the day on which the customer would like the FX Deal booked.  When included in the response this indicates the actual date the FX Deal was booked, subject to cutoff times (i.e. if the transaction came after the daily cutoff time, this value would be the next processing date).
<a href="#">RelatedForExDealRef</a>	Aggregate	Optional Repeating	Related Foreign Exchange Deal Reference
<a href="#">AcctKeys</a>	Aggregate	Optional	Account Keys Aggregate
<a href="#">InterestRate</a>	Decimal	Optional	The interest rate associated with a ForEx Quote. Typically this is used for an FX Time Deposit Quote only.
<a href="#">InterestRateYield</a>	Aggregate	Optional	Interest Rate Yield
<a href="#">RequestedForExRate</a>	Aggregate	Optional	Requested Foreign Exchange Rate
<a href="#">ForExRateProviderName</a>	C-255	Optional	Foreign Exchange Rate Provider Name

end Aggregate

---

### Foreign Exchange Quote Inquiry Request <ForExQuoteInqRq>

This message is issued by the client to find the current status and details of an existing FX Rate Quote.

See the matching response message [ForExQuoteInqRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">DocCtrlIn</a>	Aggregate	Optional	Document Control Input
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
begin-xor		Optional Repeating	
<a href="#">ForExQuoteSel</a>	Aggregate	Required	Foreign Exchange Quote Selection Aggregate
<a href="#">RecSelect</a>	lfxPath	Required	Record Select
end-xor			
end Aggregate			

---

### Foreign Exchange Quote Inquiry Response <ForExQuoteInqRs>

This message is in response to a client indicating the current status of an existing FX Rate Quote.

See the matching request message [ForExQuoteInqRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			

begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">DocCtrlOut</a>	Aggregate	Optional	Document Control Output
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">ForExQuoteRec</a>	Aggregate	Required Repeating	Foreign Exchange Quote Record
end-block			
end Aggregate			

---

### Foreign Exchange Quote Keys Aggregate <ForExQuoteKeys>

Foreign Exchange Quote Keys Aggregate

Extends: [BaseKeys](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseKeys			
end Elements from BaseKeys			
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
begin-xor		Required	
<a href="#">ForExQuoteld</a>	Identifier	Required	Foreign Exchange Quote Identifier
<a href="#">ForExQuoteldent</a>	NC-250	Required	Foreign Exchange Quote Identifier
end-xor			
end Aggregate			

---

### Foreign Exchange Quote Modify Request <ForExQuoteModRq>

This message is issued by the client as to request to modify an FX Rate



Quote.

See the matching response message [ForExQuoteModRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">ForExQuoteKeys</a>	Aggregate	Required	Foreign Exchange Quote Keys Aggregate
begin-block		Required Repeating	
<a href="#">ForExQuoteInfo</a>	Aggregate	Required	Foreign Exchange Quote Information
begin-xor		Optional Repeating	
<a href="#">DelElements</a>	lfxPath	Required	An lfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to delete. It is an error if one attempts to delete Required fields.
<a href="#">UpdElements</a>	lfxPath	Required	An lfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to update. The new value of the updated element is in the accompanying xxxInfo aggregate.
<a href="#">NewElements</a>	lfxPath	Required	An lfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to add. The new value of the new elements is in the accompanying xxxInfo aggregate.
end-xor			
end-block			
end Aggregate			

---

### Foreign Exchange Quote Modify Response <ForExQuoteModRs>

This message is issued by the server as a response to the FX Rate Quote modify request.

See the matching request message [ForExQuoteModRq](#)

Datatype: **Aggregate**

---

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">ForExQuoteRec</a>	Aggregate	Required	Foreign Exchange Quote Record
<a href="#">ForExQuoteStatusRec</a>	Aggregate	Required	Foreign Exchange Quote Status Record
end-xor			
end-block			
end Aggregate			

---

### Foreign Exchange Quote Record <ForExQuoteRec>

Contains information about the Foreign Exchange rate quote response.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">ForExQuoteId</a>	Identifier	Required	Foreign Exchange Quote Identifier
<a href="#">ForExQuoteInfo</a>	Aggregate	Required	Foreign Exchange Quote Information
<a href="#">ForExQuoteEnvr</a>	Aggregate	Optional	Foreign Exchange Quote Environment
<a href="#">ForExQuoteStatus</a>	Aggregate	Required	Foreign Exchange Quote Status
end Aggregate			

---

### Foreign Exchange Quote Reference Aggregate <ForExQuoteRef>

Foreign Exchange Quote Reference Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">ForExQuoteKeys</a>	Aggregate	Required	Foreign Exchange Quote Keys Aggregate
<a href="#">ForExQuoteRec</a>	Aggregate	Required	Foreign Exchange Quote Record
<a href="#">ForExQuoteInfo</a>	Aggregate	Required	Foreign Exchange Quote Information
end-xor			
end Aggregate			

---

**Foreign Exchange Quote Selection Aggregate <ForExQuoteSel>**

Foreign Exchange Quote Selection Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required Repeating	
<a href="#">ForExQuoteKeys</a>	Aggregate	Required	Foreign Exchange Quote Keys Aggregate
end-xor			
end Aggregate			

---

**Foreign Exchange Quote Status <ForExQuoteStatus>**

Foreign Exchange Quote Status

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">ForExQuoteStatusCode</a>	Open Enum	Required	Foreign Exchange Quote Status Code

			Valid values include: Canceled, Confirmed, Deleted, Expired, Indicative, Pending, Valid
<a href="#">StatusDesc</a>	C-255	Optional	Status Description
<a href="#">EffDt</a>	DateTime	Optional	Effective Date Time
<a href="#">ApprovalIdent</a>	NC-36	Optional	Approval Identifier
<a href="#">StatusModBy</a>	Open Enum	Optional	Status Modified By Valid values include: BPP, BPPSR, BSP, BSPSR, CPP, CPPSR, CSP, CSPSR, Customer, FI, PSP
end Aggregate			

---

### Foreign Exchange Quote Status Code <ForExQuoteStatusCode>

Defines the status of the Quote.

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
Pending	The Quote is pending a final status	N
Confirmed	the Quote has been confirmed and a deal has been booked against it.	N
Expired	the Quote has expired and is no longer valid, therefore no Deal can be booked against it.	N
Canceled	the Quote has been explicitly canceled and therefore no deal can be booked against it.	N
Valid		N
Deleted		N
Indicative	the quote was provided for informational purposes only and no deal can be booked against it.	N

---

### Foreign Exchange Quote Status Record <ForExQuoteStatusRec>

Foreign Exchange Quote Status Record

## Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">ForExQuoteId</a>	Identifier	Required	Foreign Exchange Quote Identifier
<a href="#">ForExQuoteStatus</a>	Aggregate	Required	Foreign Exchange Quote Status
end Aggregate			

---

## Foreign Exchange Quote Type <ForExQuoteType>

Identifies the type of FX Quote pricing strategy that is submitted as part of the request.

Note: when a Swap is defined as the Quote type, both a near leg and a far leg Quote must be present in a ForExQuoteAddOpRq message.

Note: When the ForExQuoteType is Offset, Drawdown, or FX Net Trade the <RelatedForExDealRef> must be present to provide a reference to the existing Deal.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
FXTrade	Each ForExQuoteInfo is an individual FX Quote request	Y
Two-Way	Two ForExQuote messages should receive two-way pricing.	N
Multi-Trade	multiple FX quotes	N
SwapNearLeg	The two ForExQuoteInfo aggregates should receive Swap pricing	N
SwapFarLeg	The two ForExQuoteInfo aggregates should receive Swap pricing	N
Offset	The ForExQuoteInfo will offset an existing contracted FX Deal	N
FXOption		N
FXFuture		N
TimeDeposit		N
Drawdown	cancel original and create a new contract for the new amount using the same rate as the original. The new contract will have the same value date as the original contract	N
FXNetTrade	The ForExQuote will net two or more related contracts, whose value dates are the same, into one new FX quote	N

---

### Requested Deal Type <ForExRateDealType>

Datatype: **Closed Enum**

### Enumerated Values

Value	Description	Is default
Buy		Y
Sell		N

---

### Foreign Exchange Rate Provider Name <ForExRateProviderName>

The requested Rate provider that the customer would like used to generate the rate (E.g. Reuters, WM Company, Wells Fargo, B of A, Barclays, ABN Amro, Deutsche Bank, etc.)

Datatype: **C-255**

---

### Foreign Exchange Rate Sheet Advise Message <ForExRateSheetAdviseRq>

See the matching response message [ForExRateSheetAdviseRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
begin-xor		Required	

<a href="#">ForExRateSheetRec</a>	Aggregate	Required	Foreign Exchange Rate Sheet Record
<a href="#">ForExRateSheetStatusRec</a>	Aggregate	Required	Foreign Exchange Rate Sheet Status Record
end-xor			
end Aggregate			

---

### Foreign Exchange Rate Sheet Advise Response <ForExRateSheetAdviseRs>

See the matching request message [ForExRateSheetAdviseRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">ForExRateSheetRec</a>	Aggregate	Required	Foreign Exchange Rate Sheet Record
<a href="#">ForExRateSheetStatusRec</a>	Aggregate	Required	Foreign Exchange Rate Sheet Status Record
end-xor			
end-block			
end Aggregate			

---

### Foreign Exchange Rate Sheet Currency Rate <ForExRateSheetCurRate>

Contains details about a currency and the exchange rates associated with the currency and receiving method combination. This aggregate repeats for each currency pair and receiving method for which a rate has been

quoted.

**Datatype: Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">NewForExRate</a>	Aggregate	Required	Foreign Exchange Rate
<a href="#">ForExRateType</a>	Closed Enum	Optional	Foreign Exchange Rate Type Valid values are limited to: Committed, Future, Indicated, Spot Default Value: Indicated
<a href="#">BuySellIndicator</a>	Closed Enum	Required	Buy Sell Indicator Valid values are limited to: Buy, Sell
<a href="#">ReceivingMethod</a>	Open Enum	Required	Receiving Method Valid values include: Account, BankNotes, Draft, EFT, SSI
<a href="#">ForExValDtType</a>	Closed Enum	Required	Foreign Exchange Value Date Type Valid values are limited to: Cash, Forward, Spot, Tomorrow, Window
<a href="#">ForExValDt</a>	DateTime	Optional	Foreign Exchange Value Date
<a href="#">MinCurAmt</a>	Aggregate	Optional	Minimum Amount
<a href="#">MaxCurAmt</a>	Aggregate	Optional	Maximum Currency Amount
<a href="#">SmallBankNoteDenom</a>	Decimal	Optional	Small Bank Note Denomination
<a href="#">EffTimeFrame</a>	Aggregate	Optional	The start and end date and time for which the currency rate is effective. After the end date/time indicated in this aggregate the currency rate is no longer valid or guaranteed by the rate issuer.
<a href="#">FixingDt</a>	DateTime	Optional	Fixing Date
<a href="#">ForExRateProviderName</a>	C-255	Optional	Foreign Exchange Rate Provider Name
end Aggregate			

---

**Foreign Exchange Rate Sheet Environment <ForExRateSheetEnvr>**

Foreign Exchange Rate Sheet Environment

Extends: [BaseEnvr](#)



Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseEnvr			
<a href="#">CreatedDt</a>	DateTime	Required	Created Date/Time. The date/time the object was created.
<a href="#">CreateRefIdent</a>	NC-36	Optional	An identifier used to uniquely identify the creation of this object to the system that created the object. This will usually be a link to reference information used in creating the object.
<a href="#">ClientCreateDt</a>	DateTime	Optional	The created date/time as reported by the client. This can vary from the object creation date/time due to time zone differences, communication delays, etc
<a href="#">ClientBusinessDt</a>	DateTime	Optional	The date/time that the client recorded this object for operational purposes. This date/time will often be used to manage the availability of information or funds.
<a href="#">LastUpdateDt</a>	DateTime	Optional	Last update Date/Time. The date/time the object was created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LastUpdateRqUID</a>	UUID	Optional	Last update RqUID. The RqUID from the message that resulted in th object being created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LoginName</a>	C-40	Optional	The login name (or Id) of the individual that authorized this object to be created. This is typically used when the object is created on behalf of its owner by someone who is not normally represented as a Party (i.e., an employee or agent).
<a href="#">PartyKeys</a>	Aggregate	Optional	Reference to the Party that this object is owned by or authorized by.
<a href="#">CardKeys</a>	Aggregate	Optional	This is dependent on Card proposal. Currently this is implemented as the CardLogicalData aggregate.
<a href="#">PassbkKeys</a>	Aggregate	Optional	Currently PassbkAcceptData.
<a href="#">NetworkTrnData</a>	Aggregate	Optional	Network Transaction Information. Identification and location of the terminal from which the message originates.
<a href="#">ServerTerminalSeqNum</a>	NC-36	Optional	Server Terminal Sequence Number. A terminal sequence number generated

			by the server to identify this object. This number is used in ATM and POS environments to uniquely identify transactions (with terminal name and date) for transaction management.
<a href="#">PointOfServiceData</a>	Aggregate	Optional	The Point of Service Data. This aggregate contains information about the environment in which this message originated.
<a href="#">ClientTerminalSeqNum</a>	NC-36	Optional	Client Terminal Sequence Number. A terminal sequence number generated by the client to identify this object. This number is used in ATM, POS, Branch, Call Center and Teller environments to uniquely identify transactions at the client (with terminal name and date). This number is often required when requesting supporting documentation related to a customer transaction.
end Elements from BaseEnvr			
begin Aggregate			
<a href="#">ForExRateSheetIdent</a>	NC-250	Optional	Foreign Exchange Rate Sheet Identifier
end Aggregate			

---

**Foreign Exchange Rate Sheet Identifier <ForExRateSheetId>**

Foreign Exchange Rate Sheet Identifier

Datatype: **Identifier**

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**Foreign Exchange Rate Sheet Identifier <ForExRateSheetIdent>**

Foreign Exchange Rate Sheet Identifier

Datatype: **NC-250**

---

## Foreign Exchange Rate Sheet Information <ForExRateSheetInfo>

Foreign Exchange Rate Sheet Information

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">EffTimeFrame</a>	Aggregate	Required	The start and end date and time for which the currency rate is effective. After the end date/time indicated in this aggregate the currency rate is no longer valid or guaranteed by the rate issuer.
<a href="#">MinCurAmt</a>	Aggregate	Optional	Minimum Amount
<a href="#">MaxCurAmt</a>	Aggregate	Optional	Maximum Currency Amount
<a href="#">FixingDt</a>	DateTime	Optional	Fixing Date
<a href="#">ForExRateType</a>	Closed Enum	Optional	Foreign Exchange Rate Type  Valid values are limited to: Committed, Future, Indicated, Spot  Default Value: Indicated
<a href="#">ForExRateSheetCurRate</a>	Aggregate	Required Repeating	Foreign Exchange Rate Sheet Currency Rate
end Aggregate			

---

## Foreign Exchange Rate Sheet Inquiry Request <ForExRateSheetInqRq>

See the matching response message [ForExRateSheetInqRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">DocCtrlIn</a>	Aggregate	Optional	Document Control Input
	Aggregate		

<a href="#">RecCtrlIn</a>		Optional	Records Control Input
begin-xor		Optional Repeating	
<a href="#">ForExRateSheetSel</a>	Aggregate	Required	Foreign Exchange Rate Sheet Selection Aggregate
<a href="#">RecSelect</a>	lfxPath	Required	Record Select
end-xor			
end Aggregate			

---

### Foreign Exchange Rate Sheet Inquiry Response <ForExRateSheetInqRs>

See the matching request message [ForExRateSheetInqRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">DocCtrlOut</a>	Aggregate	Optional	Document Control Output
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">ForExRateSheetRec</a>	Aggregate	Required Repeating	Foreign Exchange Rate Sheet Record
end-block			
end Aggregate			

---

### Foreign Exchange Rate Sheet Keys Aggregate <ForExRateSheetKeys>

Foreign Exchange Rate Sheet Keys Aggregate  
Extends: [BaseKeys](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseKeys			
end Elements from BaseKeys			
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
begin-xor		Required	
<a href="#">ForExRateSheetId</a>	Identifier	Required	Foreign Exchange Rate Sheet Identifier
begin-block		Required	
begin-xor		Optional	
<a href="#">ForExRateType</a>	Closed Enum	Required Repeating	Foreign Exchange Rate Type Valid values are limited to: Committed, Future, Indicated, Spot Default Value: Indicated
<a href="#">FixingDateStartDt</a>	DateTime	Required	Fixing Date Start Date
<a href="#">FixingDateEndDt</a>	DateTime	Required	Fixing Date End Date
<a href="#">ReceivingMethod</a>	Open Enum	Required Repeating	Receiving Method Valid values include: Account, BankNotes, Draft, EFT, SSI
<a href="#">ForExValDtType</a>	Closed Enum	Required	Foreign Exchange Value Date Type Valid values are limited to: Cash, Forward, Spot, Tomorrow, Window
<a href="#">ForExValDt</a>	DateTime	Required	Foreign Exchange Value Date
end-xor			
<a href="#">ForExRateSheetIdent</a>	NC-250	Optional	Foreign Exchange Rate Sheet Identifier
end-block			
end-xor			
end Aggregate			

---

**Foreign Exchange Rate Sheet Record <ForExRateSheetRec>**

Datatype: **Aggregate**

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Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">ForExRateSheetId</a>	Identifier	Required	Foreign Exchange Rate Sheet Identifier
<a href="#">ForExRateSheetInfo</a>	Aggregate	Required	Foreign Exchange Rate Sheet Information
<a href="#">ForExRateSheetEnvr</a>	Aggregate	Optional	Foreign Exchange Rate Sheet Environment
<a href="#">ForExRateSheetStatus</a>	Aggregate	Required	Foreign Exchange Rate Sheet Status
end Aggregate			

---

### Foreign Exchange Rate Sheet Reference Aggregate <ForExRateSheetRef>

Foreign Exchange Rate Sheet Reference Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">ForExRateSheetKeys</a>	Aggregate	Required	Foreign Exchange Rate Sheet Keys Aggregate
<a href="#">ForExRateSheetRec</a>	Aggregate	Required	Foreign Exchange Rate Sheet Record
<a href="#">ForExRateSheetInfo</a>	Aggregate	Required	Foreign Exchange Rate Sheet Information
end-xor			
end Aggregate			

---

### Foreign Exchange Rate Sheet Selection Aggregate <ForExRateSheetSel>

Foreign Exchange Rate Sheet Selection Aggregate

Datatype: **Aggregate**

---

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required Repeating	
<a href="#">ForExRateSheetKeys</a>	Aggregate	Required	Foreign Exchange Rate Sheet Keys Aggregate
end-xor			
end Aggregate			

---

### Foreign Exchange Rate Sheet Status <ForExRateSheetStatus>

Foreign Exchange Rate Sheet Status

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">ForExRateSheetStatusCode</a>	Open Enum	Required	Foreign Exchange Rate Sheet Status Code  Valid values include: Canceled, Confirmed, Deleted, Expired, Indicative, Pending, Valid
<a href="#">StatusDesc</a>	C-255	Optional	Status Description
<a href="#">EffDt</a>	DateTime	Optional	Effective Date Time
<a href="#">ApprovalIdent</a>	NC-36	Optional	Approval Identifier
<a href="#">StatusModBy</a>	Open Enum	Optional	Status Modified By  Valid values include: BPP, BPPSR, BSP, BSPSR, CPP, CPPSR, CSP, CSPSR, Customer, FI, PSP
end Aggregate			

---

### Foreign Exchange Rate Sheet Status Code <ForExRateSheetStatusCode>

Foreign Exchange Rate Sheet Status Code

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Pending	The rate sheet is pending a final status. No deals can be booked against these rates.	N
Confirmed	the rate sheet has been confirmed and a deal has can be booked against this rate.	N
Expired	the rate sheet has expired and is no longer valid and the rates are no longer guaranteed.	N
Canceled	the rate sheet has been explicitly canceled and the rates are no longer guaranteed.	N
Valid		N
Deleted		N
Indicative	the rate sheet is provided for informational purposes only and no deals can be booked against these rates.	N

---

### Foreign Exchange Rate Sheet Status Record <ForExRateSheetStatusRec>

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">ForExRateSheetId</a>	Identifier	Required	Foreign Exchange Rate Sheet Identifier
<a href="#">ForExRateSheetStatus</a>	Aggregate	Required	Foreign Exchange Rate Sheet Status
end Aggregate			

---

### Foreign Exchange Rate Status Code <ForExRateStatusCode>

Foreign Exchange Rate Status Code

Datatype: **Closed Enum**



## Enumerated Values

Value	Description	Is default
Valid		N
Deleted		N

---

### Foreign Exchange Rate Type <ForExRateType>

The type of foreign exchange rate.

Datatype: **Closed Enum**

## Enumerated Values

Value	Description	Is default
Indicated	the exchange rate is for information only, and does not represent a commitment.	Y
Committed	the exchange rate within this message can be used as input to a transfer transaction, if the transaction is received before the expiration datetime.	N
Spot		N
Future		N

---

### Foreign Exchange Value Date <ForExValDt>

The requested Value date. Used for Future type deals.

Datatype: **DateTime**

---

### Foreign Exchange Value Date Time Frame <ForExValDtTimeFrame>

Foreign Exchange Value Date Time Frame

Extends: [TimeFrame](#)

## Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from TimeFrame			
<a href="#">StartDt</a>	DateTime	Optional	Start Date
begin-xor		Optional	
<a href="#">EndDt</a>	DateTime	Required	End Date
<a href="#">Duration</a>	Aggregate	Required	Duration
end-xor			
<a href="#">AllDayEvent</a>	Boolean	Optional	All Day Event
<a href="#">RecurRule</a>	Aggregate	Optional Repeating	Defines a rule for events that recur in a specific defined pattern.
<a href="#">RecurException</a>	Aggregate	Optional Repeating	Indicates an exception to the recurrence rule.
end Elements from TimeFrame			
begin Aggregate			
end Aggregate			

---

## Foreign Exchange Value Date Type <ForExValDtType>

Value date type of the rate.

Datatype: **Closed Enum**

## Enumerated Values

Value	Description	Is default
Cash	Value date is the same as the trade date	N
Tomorrow	Value date is trade date + one business day	N
Spot	Value date is trade date + two business days. Some exceptions may apply for certain currencies	N
Forward	Value date is three or more business days past the trade date	N
Window	Value date is a date range. When this value date type is selected, the <ForExValDtTimeFrame> aggregate must be used.	N

---

## Form Image <FormImg>

Image of the form

Extends: [Binary](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from Binary			
<a href="#">ContentType</a>	Open Enum	Optional	Specified in IETF RFC 2046.
<a href="#">BinLength</a>	Long	Required	Identifies the size of the binary data in number of bytes.
<a href="#">BinData</a>	Raw Binary Data	Required	Binary data.
end Elements from Binary			
begin Aggregate			
end Aggregate			

---

### Form Image Location <FormImgLoc>

Location where the form image is kept

Datatype: **C-255**

---

### Forward Points <ForwardPts>

Forwards points applied to the ForExRate. Used only when the Value date type is greater than a spot value.

When this tag is not provided, and the Quote is for a Forward, it is assumed that the <CurRate> is the all-in rate.

Datatype: **Decimal**

---

### Fraud Account Identification <FraudAcctIdent>

The Fraud or Suspense account number used to post fraudulent transactions.

Datatype: **NC-36**

---

### **Fraud Effective Date <FraudEffectiveDt>**

The date the card was defined as fraudulent.

Datatype: **DateTime**

---

### **Frequency <Freq>**

For repeating actions, frequency identifies the appropriate time period for recurrence

Datatype: **Open Enum**

## **Enumerated Values**

Value	Description	Is default
Daily	A transaction occurs every day.	N
Weekly	A transaction occurs every 7 days after the first one.	N
Biweekly	A transaction occurs every 14 days after the first one.	N
TwiceMonthly	A transaction occurs every 15 days after the first one.	N
Monthly	A transaction occurs every month on the same day of the month as the first one.	N
EndOfMonth	A transaction occurs every month on the last processing day of the month.	N
FourWeeks	A transaction occurs every fourth week on the same day of the week as the first one.	N
BiMonthly	A transaction occurs every other month on the same day of the month as the first one.	N
Quarterly	A transaction occurs every third month on the same day of the month as the first one.	N
SemiAnnually	A transaction occurs every sixth month on the same day of the month as the first one.	N
Annually	A transaction occurs once a year on the same month and as the first one.	N

## From Account Keys <FromAcctKeys>

Used in transfers and payments to reference an account that is the source of funds.

Extends: [AcctKeys](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from AcctKeys			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
begin-xor		Required	
<a href="#">AcctId</a>	Identifier	Required	Account Identifier
begin-block		Optional	
begin-xor		Optional	
<a href="#">BBAN</a>	NC-30	Required	Basic Bank Account Identifier
<a href="#">IBAN</a>	NC-34	Required	International Bank Account Number
<a href="#">UPIC</a>	NC-17	Required	Universal Payment Identification Code
<a href="#">CLABE</a>	C-18	Required	CLABE
<a href="#">CardMagData</a>	Aggregate	Required	Card Magnetic Stripe Data
<a href="#">CardKeys</a>	Aggregate	Required	Card Keys Aggregate
<a href="#">CardChipData</a>	Aggregate	Required	Card Chip Data
<a href="#">AcctIdent</a>	Aggregate	Required	Account Identifier Aggregate
end-xor			
<a href="#">AcctType</a>	Aggregate	Optional	Account Type
<a href="#">CurCode</a>	Aggregate	Optional	Currency Code
<a href="#">FIIdentType</a>	Open Enum	Optional	Financial Institution Identifier Type  Valid values include: ABA, CHAPS, CHIPS, FedWire, SortCode, SWIFT
<a href="#">FIIdent</a>	NC-34	Optional	Financial Institution Identifier
<a href="#">BranchIdent</a>	NC-22	Optional	Branch Identifier
end-block			
end-xor			
end Elements from AcctKeys			
begin Aggregate			

end Aggregate

---

### From Account Reference <FromAcctRef>

From Account Reference

Extends: [AcctRef](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from AcctRef			
begin-xor		Required	
<a href="#">AcctKeys</a>	Aggregate	Required	Account Keys Aggregate
<a href="#">AcctRec</a>	Aggregate	Required	Account Record
<a href="#">AcctInfo</a>	Aggregate	Required	Account Information Aggregate
end-xor			
end Elements from AcctRef			
begin Aggregate			
end Aggregate			

---

### Fully-Specified Payee <FSPayee>

The <FSPayee> aggregate is used to provide complete information about a Fully-Specified Payee. Used in Bill Pay message set when a payee is identified as a Fully Specified payee, as opposed to a Biller, or a Transfer Payee.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">PartyData</a>	Abstract Aggregate	Required	<b>Valid Aggregates are:</b> Party Data OrgData PersonData
end Aggregate			

---

**Full Name <FullName>**

Concatenated customer name associated with an address. Used in Customer Name/Address Aggregate.

Datatype: **C-96**

---

**Funding Due Date <FundingDueDt>**

The date/time by which the payment must be received by the Financial institution via the method referenced in the <FundingMethod>.

Datatype: **DateTime**

---

**Funding Method <FundingMethod>**

The method or source of payment the payer/originator intends to use to fund actual FX transaction associated with this Deal.

When the quote is for a non-deliverable product, then the Funding Method is not provided.

Datatype: **Open Enum**

**Enumerated Values**

Value	Description	Is default
Draft	a negotiable bank guarantee such as a cheque or cash letter	N
EFT	Electronic Funds Transfer. This includes any wire system such as SWIFT, Fed, ACH, CHiPs, CHAPS, etc.	N
Account	funds will be retrieved from an account well-known by the FI	N
BankNotes	physical bank notes issued by a country?s Federal system, i.e. dollars, euros, pounds, etc.	N
SSI	Standing Settlement Instruction. These are instructions pre-	N

established by the FI and the FI's customer

---

### **Funding Priority <FundingPriority>**

Funding Priority for the account.

Datatype: **NC-3**

---

### **Gender <Gender>**

Gender

Datatype: **Open Enum**

## **Enumerated Values**

Value	Description	Is default
Male	A Male	N
Female	A Female	N

---

### **Given Name <GivenName>**

Person's Given Name.

Datatype: **C-40**

---

### **Government Issued Identification <GovIssuedIdent>**

Government Issued Identification



Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">CountryCode</a>	Aggregate	Required	Country Code
<a href="#">GovLevel</a>	Open Enum	Optional	Government Level  Valid values include: City, Commonwealth, Country, District, Dominion, Federation, Land, Municipal, Nation, Parish, Protectorate, Province, Region, Republic, Sovereignty, State, Territory, Union
<a href="#">GovOrgName</a>	C-80	Optional	Government Organization Name
<a href="#">StateProv</a>	C-32	Optional	State or Province
end Aggregate			

---

### Government Issued Identification Type <GovIssuedIdentType>

Government Issued Identification Type

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
DriversLicense	Drivers License	N
BirthCertificate	Birth Certificate	N
HealthCard	Health Card	N
MilitaryIdent	Military Ident	N
PermResIdent	Permanent Resident Identification	N
GovEmpIdent	Government Employee Identification	N
RetirementIdent	Retirement Identification	N
VoterRegIdent	Voter Registration Identification	N
Other	Other	Y

---

### Government Level <GovLevel>

The level of government that issued the identification.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Country		N
State		N
Province		N
Municipal		N
City		N
Region		N
Nation		N
Commonwealth		N
Land		N
District		N
Dominion		N
Territory		N
Protectorate		N
Union		N
Sovereignty		N
Federation		N
Republic		N
Parish		N

---

## Government Organization <GovOrg>

The level of government that issued the identification.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Country		N
State		N
Province		N
Municipal		N
County		N
City		N

Region		N
Nation		N
Commonwealth		N
Land		N
District		N
Dominion		N
Territory		N
Protectorate		N
Union		N
Sovereignty		N
Federation		N
Republic		N
Parish		N

---

**Government Organization Name <GovOrgName>**

The name of the government organization that issued the identification, e.g., Air Force, Army, Health Ministry, Motor Vehicle.

Datatype: **C-80**

---

**Government Rank <GovRank>**

Used if GovIssuedentType is Military.

Datatype: **C-32**

---

**Grace End Date <GraceEndDt>**

Identifies the date that the grace period expires when a certificate of deposit automatically renews.

Datatype: **Date**

---

**Global Trade Item Number. <GTIN>**

Datatype: **NC-14**

---

**Guest Number <GuestNumber>**

The number assigned to the lodging patron.

Datatype: **C-25**

---

**Head of House Hold Indicator <HeadofHouseHoldInd>**

Head of House Hold Indicator

Datatype: **Boolean**

---

**High Currency Amount <HighCurAmt>**

Specifies the highest amount at which an interest rate applies or the high end of a search with a currency selection range criteria.

Extends: [CurAmt](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from CurAmt			
<a href="#">Amt</a>	Decimal	Optional	Amount.
<a href="#">CurCode</a>	Aggregate	Optional	Currency Code

end Elements from CurAmt
begin Aggregate
end Aggregate

---

### **History Retention Days <HistRetentionDays>**

The number of days after a message is processed that it is available for inquiries. For the Bill Service, the number of days that Bill Summary and Bill Detail information is available for inquiries. For Pay Service, the number of days after a transaction is processed that it is available for inquiries.

Datatype: **Long**

---

### **SP Holding Company Identification <HoldColdent>**

A unique identifier assigned by a service provider to identify the holding company that owns the SP branding company.

Datatype: **C-40**

---

### **Hold Percentage <HoldPercent>**

Percentage of the balance on the secured account used to calculate the hold amount.

Datatype: **Decimal**

---

### **Hold Reason <HoldReason>**

In some cases it is desirable to record the reason an object has been created. The HoldReason provides that capability.

Datatype: **C-80**

### Hold Type <HoldType>

Type of account hold being placed on the account

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
Collection	Funds held for collection	N
Pledge	Pledged Funds	N
CourtOrder	Funds held as per court order	N
Check	Funds held against a check	N
ContingentLiability	Contingent Liability - bank agrees to pay funds when goods arrive	N

### Holiday Data <HolidayData>

Holiday Schedule associated with this process schedule.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">Name</a>	C-40	Required	Name
<a href="#">HolidayTimeframe</a>	Aggregate	Required	Holiday Timeframe
end Aggregate			

## Holiday Timeframe <HolidayTimeframe>

The Timeframe period covered by the holiday.

Extends: [TimeFrame](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from TimeFrame			
<a href="#">StartDt</a>	DateTime	Optional	Start Date
begin-xor		Optional	
<a href="#">EndDt</a>	DateTime	Required	End Date
<a href="#">Duration</a>	Aggregate	Required	Duration
end-xor			
<a href="#">AllDayEvent</a>	Boolean	Optional	All Day Event
<a href="#">RecurRule</a>	Aggregate	Optional Repeating	Defines a rule for events that recur in a specific defined pattern.
<a href="#">RecurException</a>	Aggregate	Optional Repeating	Indicates an exception to the recurrence rule.
end Elements from TimeFrame			
begin Aggregate			
end Aggregate			

---

## Holiday Status Code <HolStatusCode>

Holiday Status Code

Datatype: **Closed Enum**

## Enumerated Values

Value	Description	Is default
Valid		N
Deleted		N

---

## Home Currency Amount <HomeCurAmt>

Home Currency Amount

Datatype: **Decimal**

---

## Home Currency Code <HomeCurCode>

Home Currency Code

Extends: [CurCode](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from CurCode			
<a href="#">CurCodeType</a>	Open Enum	Optional	Currency Code Type <hr/> Valid values include: ISO4217-Alpha, ISO4217-Numeric
<a href="#">CurCodeValue</a>	Open Enum	Required	Currency Code Value <hr/>
end Elements from CurCode			
begin Aggregate			
end Aggregate			

---

## Home Ownership <HomeOwnership>

Home Ownership.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Own		N
Rent		N



Lease		N
-------	--	---

---

### House Hold Address <HouseHoldAddr>

Identifies a household to which an address is associated.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">HouseholdIdent</a>	NC-36	Required	Household Identifier
<a href="#">AddressIdent</a>	NC-36	Required	Address Identifier
end Aggregate			

---

### Household Identifier <HouseholdIdent>

Identifies a household to which Party address is associated.

Datatype: **NC-36**

---

### International Bank Account Number <IBAN>

Refer to ISO 13616-2003 standard for details.

Datatype: **NC-34**

---

### Identifier Characteristics Data <IdentCharacterData>

The Identifier Characteristics Data aggregate describes the identification device that the customer presented to the transaction acquirer. The identification device typically will be a card or similar device that represents one or more of the customer's accounts.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">IdentType</a>	Open Enum	Required	The type of identification presented or inferred by the customer.  Unknown, MagStripeCard, ICCCard
<a href="#">ExpDt</a>	DateTime	Optional	The date/time that the identification device will expire or otherwise become ineffective. Use of the identification device after this date/time will normally not be allowed.
<a href="#">StartDt</a>	DateTime	Optional	The date/time that the identification device became or will become effective. Use of the identification device before this date/time will normally not be allowed.
<a href="#">OrigIssueDt</a>	DateTime	Optional	The date/time that identification was first issued to the customer that is presenting this device. This will normally represent a "customer since" or similar concept.
<a href="#">IdentProgram</a>	Identifier	Optional	The identifier of the program that the identification device belongs to. This is a detailed classification of the identification by line of business. It is intended to support special processing of specific customer classes. Servers should ignore this field unless they have a specific agreement with the identification device acceptor that specifies special processing.
<a href="#">IdentReadMethod</a>	Open Enum	Optional Repeating	The actual method used to read the customer's identification device.  Valid values: Manual, BarCode, MagStripe, OCR, ICC, Customer.
<a href="#">IdentPrevReadMethod</a>	Open Enum	Optional Repeating	The actual method used by the device to read the previously used customer's identification device (card).  The IFX client should be able to keep track of the previous "read method" in order to support this functionality.  Valid values: Manual, BarCode, MagStripe, OCR, ICC, Customer.
<a href="#">IdentServiceCode</a>	C-3	Optional	The Service Code read from the customer's identification device, as

			<p>defined by ISO 7813.</p> <p>This Service Code comes from the "chip" (Integrated Circuit - IC) on the card, if the chip is present on the card and it could be successfully read; otherwise, this Service Code will come from the magnetic stripe present on the card.</p>
<a href="#">IdentPrevServiceCode</a>	C-3	Optional	<p>The Service Code read from the previously used customer's identification device, as defined by ISO 7813.</p> <p>The IFX client should be able to keep track of the previous "service code" in order to support this functionality.</p> <p>This Service Code comes from the "chip" (Integrated Circuit - IC) on the card, if the chip is present on the card and it could be successfully read; otherwise, this Service Code will come from the magnetic stripe present on the card.</p>
<a href="#">IdentVerifyMethod</a>	Open Enum	Optional Repeating	<p>The actual method used to verify the customer's authority to use the presented identification device.</p> <p>Valid values: Unknown, None, Signature, PictureID, OnlinePIN, OfflinePIN, DigitizedSignature, Biometrics, ICCSignature, Certificate, AddressVerification, TelephoneNumberVerification, PersonalInfoVerification.</p>
<a href="#">IdentVerifyEntity</a>	Open Enum	Optional Repeating	<p>The entity that verified the customer's authority to use the presented identification device.</p> <p>Valid values: Unknown, NotAuthenticated, Acceptor, Intermediary, Authorizer, ICC, CAD</p>
<a href="#">IdentConditions</a>	Open Enum	Optional Repeating	<p>Any identified conditions detected by the transaction acquirer related to the customer's presentation of the identification device.</p> <p>Valid values: None, CustomerNotPresent, CardNotPresent, PreauthorizedTransaction, Telephone, MailOrder, IdentVerifyUnavailable, SecurityAlert, MerchantSuspicious, SuspectedFraud</p>
<a href="#">IdentVerifyResults</a>	Open Enum	Optional Repeating	<p>The results of the application of the identity verify method(s).</p> <p>Valid values: CVVValid, CVVInvalid, PINValid, PINInvalid, SignatureValid,</p>

			SignatureInvalid
end Aggregate			

---

### Identified Conditions <IdentConditions>

Any identified conditions detected by the transaction acquirer related to the customer's presentation of the identification device.

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
None	No special conditions were noted	N
CustomerNotPresent	Customer was not present	N
CardNotPresent	Card was not present	N
PreauthorizedTransaction	Transaction completes a previously authorized agreement	N
Telephone	Transaction was initiated by telephone, customer was not present	N
MailOrder	Transaction was initiated by mail, customer was not present	N
IdentVerifyUnavailable	Identity could not be verified because verification device was not operational	N
SecurityAlert	Transaction generated a security alert, usually because it is not a normal transaction for the customer	N
MerchantSuspicious	Merchant is suspicious about the transaction, usually because of the behavior of the customer or the situation where the transaction occurred	N
SuspectedFraud	Transaction is suspected to be fraudulent, usually because identification appears altered or invalid or some other aspect of the transaction appears to indicate that the customer will not be able to complete it.	N

---

### Identification Image <IdentImg>

An image scan of the identification document.

Extends: [Binary](#)

## Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from Binary			
<a href="#">ContentType</a>	Open Enum	Optional	Specified in IETF RFC 2046.
<a href="#">BinLength</a>	Long	Required	Identifies the size of the binary data in number of bytes.
<a href="#">BinData</a>	Raw Binary Data	Required	Binary data.
end Elements from Binary			
begin Aggregate			
end Aggregate			

---

## Identification Previous Read Method <IdentPrevReadMethod>

The actual method used to read the previously used customer's identification device.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Manual	The identification device was visually read	N
BarCode	The identification device was read with a bar code reader	N
MagStripe	The identification device was read with a mag stripe reader	N
OCR	The identification device was read using an optical character recognition reader	N
ICC	The identification device was read using an integrated chip card reader	N
Customer	The identification device was read and entered by the customer, usually because the transaction was executed remotely (i.e., Mail, Telephone, eCommerce, etc.).	N
NotSpecified	It was not specified how the identification device was read.	N
TerminalNotUsed	A terminal was not used to read the identification device	N

---

## Identification Previous Service Code <IdentPrevServiceCode>

The Service Code read from the previously used customer's identification device, as defined by ISO 7813.

This Service Code comes from the "chip" (Integrated Circuit - IC) on the card, if the chip is present on the card and it could be successfully read; otherwise, this Service Code will come from the magnetic stripe present on the card.

Datatype: **C-3**

---

### Identification Program Identifier <IdentProgram>

The identifier of the program that the identification device belongs to. This is a detailed classification of the identification by line of business. It is intended to support special processing of specific customer classes. Servers should ignore this field unless they have a specific agreement with the identification device acceptor that specifies special processing.

Datatype: **Identifier**

---

### Identification Read Method <IdentReadMethod>

The actual method used to read the customer's identification device.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Manual	The identification device was visually read	N
BarCode	The identification device was read with a bar code reader	N
MagStripe	The identification device was read with a mag stripe reader	N
OCR	The identification device was read using an optical character recognition reader	N
ICC	The identification device was read using an integrated chip card reader	N
Customer	The identification device was read and entered by the customer, usually because the transaction was executed remotely (i.e., Mail, Telephone, eCommerce, etc.).	N
NotSpecified	It was not specified how the identification device was read.	N
TerminalNotUsed	A terminal was not used to read the identification device	N

---

**Identification Serial Number <IdentSerialNum>**

Identification serial number. Includes spaces as required.

Datatype: **NC-32**

---

**Identification Service Code <IdentServiceCode>**

The Service Code read from the customer's identification device, as defined by ISO 7813.

This Service Code comes from the "chip" (Integrated Circuit - IC) on the card, if the chip is present on the card and it could be successfully read; otherwise, this Service Code will come from the magnetic stripe present on the card.

Datatype: **C-3**

---

**Identification Device Type <IdentType>**

The type of identification device presented or inferred by the customer.

Datatype: **Open Enum**

**Enumerated Values**

Value	Description	Is default
Unknown	The presented identification device is unknown.	N
MagStripeCard	The customer presented a magnetic stripe card.	N
ICCCard	The customer presented an ICC card.	N

---

## Identification Verify Entity <IdentVerifyEntity>

The entity that verified the customer's authority to use the presented identification device.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Unknown		N
NotAuthenticated	Customer?s authority was not verified, usually because transaction purpose or limit did not require verification. This could also occur with the use of anonymous stored value cards.	N
Acceptor		N
Intermediary		N
Authorizer		N
ICC		N
CAD		N

---

## Identification Verify Method <IdentVerifyMethod>

The actual method used to verify the customer's authority to use the presented identification device.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Unknown	Unknown	N
None	None	N
Signature	Signature	N
PictureID	Picture ID	N
OnlinePIN	Online PIN	N
OfflinePIN	Offline PIN	N
DigitizedSignature	Digitized Signature	N
Biometrics	Biometrics	N
ICCSignature	ICC Signature	N
Certificate	Certificate	N
AddressVerification	Address Verification	N



TelephoneNumberVerification	Telephone Number Verification	N
PersonalInfoVerification	Personal Info Verification	N
CardVerificationValue	Card Verification Value	N

---

### Identification Verify Results <IdentVerifyResults>

The results of the application of the identity verify method(s).

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
CVVValid		N
CVVInvalid		N
PINValid		N
PINInvalid		N
SignatureValid		N
SignatureInvalid		N
Verified		N
NotVerified		N
InProgress		N

---

### IFX <IFX>

This tag allows for the creation of a monolithic XSD

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
begin-xor		Required Repeating	
<a href="#">AcctAcctRelAddRq</a>	Aggregate	Required	Account to Account Relationship Add Message
<a href="#">AcctAcctRelDelRq</a>	Aggregate	Required	Account to Account

			Relationship Delete Request
<a href="#">AcctAcctRelInqRq</a>	Aggregate	Required	Account to Account Relationship Inquiry Request
<a href="#">AcctAcctRelModRq</a>	Aggregate	Required	Account to Account Relationship Modify Request
<a href="#">AcctAcctRelStatusInqRq</a>	Aggregate	Required	Account to Account Relationship Status Inquiry Request
<a href="#">AcctAcctRelStatusModRq</a>	Aggregate	Required	Account to Account Relationship Status Modify Request
<a href="#">AcctAddRq</a>	Aggregate	Required	Account Add Message
<a href="#">AcctAdviseRq</a>	Aggregate	Required	Account Advise Message
<a href="#">AcctAudRq</a>	Aggregate	Required	Account Audit Request
<a href="#">AcctDelRq</a>	Aggregate	Required	
<a href="#">AcctHoldAddRq</a>	Aggregate	Required	Account Hold Add Message
<a href="#">AcctHoldDelRq</a>	Aggregate	Required	Account Hold Delete Request
<a href="#">AcctHoldInqRq</a>	Aggregate	Required	Account Hold Inquiry Request
<a href="#">AcctHoldModRq</a>	Aggregate	Required	Account Hold Modify Request
<a href="#">AcctHoldStatusInqRq</a>	Aggregate	Required	Account Hold Status Inquiry Request
<a href="#">AcctHoldStatusModRq</a>	Aggregate	Required	Account Hold Status Modify Request
<a href="#">AcctInqRq</a>	Aggregate	Required	Account Inquiry Request
<a href="#">AcctModRq</a>	Aggregate	Required	Account Modify Request
<a href="#">AcctPayOffAddRq</a>	Aggregate	Required	Account PayOff Add Message
<a href="#">AcctPayOffInqRq</a>	Aggregate	Required	Account PayOff Inquiry Request
<a href="#">AcctPayOffStatusModRq</a>	Aggregate	Required	Account PayOff Status Modify Request
<a href="#">AcctRevRq</a>	Aggregate	Required	Account Reversal Request
<a href="#">AcctStatusInqRq</a>	Aggregate	Required	Account Status Inquiry Request
<a href="#">AcctStatusModRq</a>	Aggregate	Required	Account Status Modify Request
<a href="#">AcctStmtAdviseRq</a>	Aggregate	Required	Account Statement Advise Message
<a href="#">AcctStmtInqRq</a>	Aggregate	Required	Account Statement Inquiry Message
<a href="#">AcctStmtRevRq</a>	Aggregate	Required	Account Statement Reversal Request
<a href="#">AcctStmtStatusInqRq</a>	Aggregate	Required	Account Statement Status Inquiry Request

<a href="#">AcctStmntStatusModRq</a>	Aggregate	Required	Account Statement Status Modify Request
<a href="#">AcctSyncRq</a>	Aggregate	Required	Account Sync Request
<a href="#">AcctTrnAdviseRq</a>	Aggregate	Required	Account Transaction Advise Message
<a href="#">AcctTrnImgAddRq</a>	Aggregate	Required	Account Transaction Image Add Message
<a href="#">AcctTrnImgDelRq</a>	Aggregate	Required	Account Transaction Image Delete Request
<a href="#">AcctTrnImgInqRq</a>	Aggregate	Required	Account Transaction Image Inquiry Request
<a href="#">AcctTrnImgRevRq</a>	Aggregate	Required	Account Transaction Image Reversal Request
<a href="#">AcctTrnInqRq</a>	Aggregate	Required	Account Transaction Inquiry Message
<a href="#">AcctTrnRevRq</a>	Aggregate	Required	Account Transaction Reversal Request
<a href="#">AlertAddRq</a>	Aggregate	Required	Alert Add Message
<a href="#">AlertDelRq</a>	Aggregate	Required	Alert Delete Request
<a href="#">AlertInqRq</a>	Aggregate	Required	Alert Inquiry Request
<a href="#">AlertModRq</a>	Aggregate	Required	Alert Modify Request
<a href="#">AlertStatusInqRq</a>	Aggregate	Required	Alert Status Inquiry Request
<a href="#">AlertStatusModRq</a>	Aggregate	Required	Alert Status Modify Request
<a href="#">AthAddRq</a>	Aggregate	Required	Authorization Add Message
<a href="#">AthAdviseRq</a>	Aggregate	Required	Authorization Advise Message
<a href="#">AthAudRq</a>	Aggregate	Required	Authorization Audit Request
<a href="#">AthCanRq</a>	Aggregate	Required	Authorization Cancel Request
<a href="#">AthInqRq</a>	Aggregate	Required	Authorization Inquiry Request
<a href="#">AthModRq</a>	Aggregate	Required	Authorization Modify Request
<a href="#">AthRevRq</a>	Aggregate	Required	Authorization Reversal Request
<a href="#">AthStatusInqRq</a>	Aggregate	Required	Authorization Status Inquiry Request
<a href="#">AthStatusModRq</a>	Aggregate	Required	Authorization Status Modify Request
<a href="#">AthSyncRq</a>	Aggregate	Required	Authorization Sync Request
<a href="#">BillerInqRq</a>	Aggregate	Required	Biller Inquiry Request
<a href="#">BillerRevRq</a>	Aggregate	Required	Biller Reversal Request
<a href="#">BillInqRq</a>	Aggregate	Required	Bill Inquiry Request
<a href="#">BillRevRq</a>	Aggregate	Required	Bill Reversal Request
<a href="#">BillStatusModRq</a>	Aggregate	Required	Bill Status Modification

			Request
<a href="#">CardAcctRelAddRq</a>	Aggregate	Required	Card Account Relationship Add Message
<a href="#">CardAcctRelAdviseRq</a>	Aggregate	Required	Card Account Relationship Advise Message
<a href="#">CardAcctRelAudRq</a>	Aggregate	Required	Card Account Relationship Audit Request
<a href="#">CardAcctRelDelRq</a>	Aggregate	Required	Card Account Relationship Delete Request
<a href="#">CardAcctRelInqRq</a>	Aggregate	Required	Card Account Relationship Inquiry Request
<a href="#">CardAcctRelModRq</a>	Aggregate	Required	Card Account Relationship Modify Request
<a href="#">CardAcctRelRevRq</a>	Aggregate	Required	Card Account Relationship Reversal Request
<a href="#">CardAcctRelStatusInqRq</a>	Aggregate	Required	Card Account Relationship Status Inquiry Request
<a href="#">CardAcctRelStatusModRq</a>	Aggregate	Required	Card Account Relationship Status Modify Request
<a href="#">CardAcctRelSyncRq</a>	Aggregate	Required	Card Account Relationship Sync Request
<a href="#">CardAddRq</a>	Aggregate	Required	Card Add Message
<a href="#">CardAdviseRq</a>	Aggregate	Required	Card Advise Message
<a href="#">CardAudRq</a>	Aggregate	Required	Card Audit Request
<a href="#">CardAuthInqRq</a>	Aggregate	Required	Card Authorization Inquiry Request
<a href="#">CardAuthModRq</a>	Aggregate	Required	Card Authorization Modify Request
<a href="#">CardDelRq</a>	Aggregate	Required	Card Delete Request
<a href="#">CardInqRq</a>	Aggregate	Required	Card Inquiry Request
<a href="#">CardModRq</a>	Aggregate	Required	Card Modify Request
<a href="#">CardOrderAddRq</a>	Aggregate	Required	Card Order Add Message
<a href="#">CardOrderAdviseRq</a>	Aggregate	Required	Card Order Advise Message
<a href="#">CardOrderAudRq</a>	Aggregate	Required	Card Order Audit Request
<a href="#">CardOrderCanRq</a>	Aggregate	Required	Card Order Cancel Request
<a href="#">CardOrderInqRq</a>	Aggregate	Required	Card Order Inquiry Request
<a href="#">CardOrderModRq</a>	Aggregate	Required	Card Order Modify Request
<a href="#">CardOrderRevRq</a>	Aggregate	Required	Card Order Reversal Request
<a href="#">CardOrderStatusInqRq</a>	Aggregate	Required	Card Order Status Inquiry Request
<a href="#">CardOrderStatusModRq</a>	Aggregate	Required	Card Order Status Modify Request

<a href="#">CardOrderSyncRq</a>	Aggregate	Required	Card Order Sync Request
<a href="#">CardRevRq</a>	Aggregate	Required	Card Reversal Request
<a href="#">CardStatusInqRq</a>	Aggregate	Required	Card Status Inquiry Request
<a href="#">CardStatusModRq</a>	Aggregate	Required	Card Status Modify Request
<a href="#">CardSyncRq</a>	Aggregate	Required	Card Sync Request
<a href="#">CardUpdateStatusModRq</a>	Aggregate	Required	Card Update Status Modify Request
<a href="#">ChkAcceptAddRq</a>	Aggregate	Required	Check Accept Add Request
<a href="#">ChkAcceptAudRq</a>	Aggregate	Required	Check Accept Audit Request
<a href="#">ChkAcceptCanRq</a>	Aggregate	Required	Check Accept Cancel Request
<a href="#">ChkAcceptInqRq</a>	Aggregate	Required	Check Accept Inquiry Request
<a href="#">ChkAcceptModRq</a>	Aggregate	Required	Check Accept Modify Request
<a href="#">ChkAcceptRevRq</a>	Aggregate	Required	Check Accept Reversal Request
<a href="#">ChkAcceptStatusModRq</a>	Aggregate	Required	Check Accept Status Modify Request
<a href="#">ChkAcceptSyncRq</a>	Aggregate	Required	Check Accept Synchronization Request
<a href="#">ChkIssueAddRq</a>	Aggregate	Required	Check Issue Add Request
<a href="#">ChkIssueAdviseRq</a>	Aggregate	Required	Check Issue Advise Request
<a href="#">ChkIssueAudRq</a>	Aggregate	Required	Check Issue Audit Request
<a href="#">ChkIssueDelRq</a>	Aggregate	Required	Check Issue Delete Request
<a href="#">ChkIssueInqRq</a>	Aggregate	Required	Check Issue Inquiry Request
<a href="#">ChkIssueModRq</a>	Aggregate	Required	Check Issue Modification Request
<a href="#">ChkIssueStatusModRq</a>	Aggregate	Required	Check Issue Status Modification Request
<a href="#">ChkIssueSyncRq</a>	Aggregate	Required	Check Issue Synchronization Request
<a href="#">ChkOrdAddRq</a>	Aggregate	Required	Check Order Add Request
<a href="#">ChkOrdAdviseRq</a>	Aggregate	Required	Check Order Advise Request
<a href="#">ChkOrdAudRq</a>	Aggregate	Required	Check Order Audit Request
<a href="#">ChkOrdDelRq</a>	Aggregate	Required	
<a href="#">ChkOrdInqRq</a>	Aggregate	Required	Check Order Inquiry Request
<a href="#">ChkOrdModRq</a>	Aggregate	Required	Check Order Modify Request
<a href="#">ChkOrdRevRq</a>	Aggregate	Required	Check Order Reversal Request
<a href="#">ChkOrdSyncRq</a>	Aggregate	Required	Check Order Synchronization Request
<a href="#">ChksumAddRq</a>	Aggregate	Required	Checksum Add Request

<a href="#">ChksumAdviseRq</a>	Aggregate	Required	Checksum Advise Request
<a href="#">ChksumAudRq</a>	Aggregate	Required	Checksum Audit Request
<a href="#">ChksumDelRq</a>	Aggregate	Required	Checksum Delete Request
<a href="#">ChksumInqRq</a>	Aggregate	Required	Checksum Inquiry Request
<a href="#">ChksumModRq</a>	Aggregate	Required	Checksum Modify Request
<a href="#">ChksumStatusModRq</a>	Aggregate	Required	Checksum Status Modify Request
<a href="#">ChksumSyncRq</a>	Aggregate	Required	Checksum Synchronization Request
<a href="#">CompRemitStmntAddRq</a>	Aggregate	Required	Comprehensible Remittance Statement Add Request
<a href="#">CompRemitStmntAudRq</a>	Aggregate	Required	Comprehensive Remittance Statement Audit Request
<a href="#">CompRemitStmntInqRq</a>	Aggregate	Required	Comprehensible Remittance Statement Inquiry Request
<a href="#">CompRemitStmntSyncRq</a>	Aggregate	Required	Comprehensible Remittance Statement Synchronization Request
<a href="#">CreditAddRq</a>	Aggregate	Required	Credit Add Request
<a href="#">CreditAdviseRq</a>	Aggregate	Required	Credit Advise Request
<a href="#">CreditAudRq</a>	Aggregate	Required	Credit Audit Request
<a href="#">CreditCanRq</a>	Aggregate	Required	Credit Cancel Request
<a href="#">CreditInqRq</a>	Aggregate	Required	Credit Inquiry Request
<a href="#">CreditModRq</a>	Aggregate	Required	Credit Modification Request Message
<a href="#">CreditRevRq</a>	Aggregate	Required	Credit Reversal Request
<a href="#">CreditStatusModRq</a>	Aggregate	Required	Credit Status Modification Request
<a href="#">CreditSyncRq</a>	Aggregate	Required	Credit Synchronization Request
<a href="#">CustPayeeAddRq</a>	Aggregate	Required	Customer Payee Add Request
<a href="#">CustPayeeAudRq</a>	Aggregate	Required	Customer Payee Audit Request
<a href="#">CustPayeeDelRq</a>	Aggregate	Required	Customer Payee Delete Request
<a href="#">CustPayeeInqRq</a>	Aggregate	Required	Customer Payee Inquiry Request
<a href="#">CustPayeeModRq</a>	Aggregate	Required	Customer Payee Modification Request
<a href="#">CustPayeeSyncRq</a>	Aggregate	Required	Customer Payee Synchronization Request
<a href="#">DebitAddRq</a>	Aggregate	Required	Debit Add Request
<a href="#">DebitAdviseRq</a>	Aggregate	Required	Debit Advise Request

<a href="#">DebitAudRq</a>	Aggregate	Required	Debit Audit Request
<a href="#">DebitCanRq</a>	Aggregate	Required	Debit Cancel Request
<a href="#">DebitInqRq</a>	Aggregate	Required	Debit Inquiry Request
<a href="#">DebitModRq</a>	Aggregate	Required	Debit Modify Request
<a href="#">DebitRevRq</a>	Aggregate	Required	Debit Reversal Request
<a href="#">DebitStatusModRq</a>	Aggregate	Required	Debit Status Modify Request
<a href="#">DebitSyncRq</a>	Aggregate	Required	Debit Synchronization Request
<a href="#">DepBkOrdAddRq</a>	Aggregate	Required	Deposit Book Order Add Request
<a href="#">DepBkOrdAdviseRq</a>	Aggregate	Required	Deposit Book Order Advise Request
<a href="#">DepBkOrdDelRq</a>	Aggregate	Required	
<a href="#">DepBkOrdInqRq</a>	Aggregate	Required	
<a href="#">DepBkOrdModRq</a>	Aggregate	Required	
<a href="#">DevAdviseRq</a>	Aggregate	Required	Device Advise Request
<a href="#">DevInqRq</a>	Aggregate	Required	Device Inquiry Request
<a href="#">DisclnqRq</a>	Aggregate	Required	Disclosure Inquiry Request
<a href="#">DisputeAddRq</a>	Aggregate	Required	Dispute Add Message
<a href="#">DisputeDelRq</a>	Aggregate	Required	Dispute Delete Request
<a href="#">DisputeInqRq</a>	Aggregate	Required	Dispute Inquiry Request
<a href="#">DisputeModRq</a>	Aggregate	Required	Dispute Modify Request
<a href="#">DisputeStatusInqRq</a>	Aggregate	Required	Dispute Status Inquiry Request
<a href="#">DisputeStatusModRq</a>	Aggregate	Required	Dispute Status Modify Request
<a href="#">ForExDealAddRq</a>	Aggregate	Required	Foreign Exchange Deal Status Add Request
<a href="#">ForExDealAdviseRq</a>	Aggregate	Required	Foreign Exchange Deal Status Advise Request
<a href="#">ForExDealCanRq</a>	Aggregate	Required	Foreign Exchange Deal Cancel Request
<a href="#">ForExDealInqRq</a>	Aggregate	Required	Foreign Exchange Deal Inquiry Request
<a href="#">ForExDealModRq</a>	Aggregate	Required	Foreign Exchange Deal Status Modify Request
<a href="#">ForExQuoteAddRq</a>	Aggregate	Required	Foreign Exchange Quote Add Message
<a href="#">ForExQuoteAdviseRq</a>	Aggregate	Required	Foreign Exchange Quote Advise Message
<a href="#">ForExQuoteCanRq</a>	Aggregate	Required	Foreign Exchange Quote Cancel Request
<a href="#">ForExQuoteInqRq</a>	Aggregate	Required	Foreign Exchange Quote Inquiry Request

<a href="#">ForExQuoteModRq</a>	Aggregate	Required	Foreign Exchange Quote Modify Request
<a href="#">ForExRateSheetAdviseRq</a>	Aggregate	Required	Foreign Exchange Rate Sheet Advise Message
<a href="#">ForExRateSheetInqRq</a>	Aggregate	Required	Foreign Exchange Rate Sheet Inquiry Request
<a href="#">InventoryAddRq</a>	Aggregate	Required	Inventory Add Message
<a href="#">InventoryDelRq</a>	Aggregate	Required	Inventory Delete Request
<a href="#">InventoryInqRq</a>	Aggregate	Required	Inventory Inquiry Request
<a href="#">InventoryModRq</a>	Aggregate	Required	Inventory Modify Request
<a href="#">InventoryStatusInqRq</a>	Aggregate	Required	Inventory Status Inquiry Request
<a href="#">InventoryStatusModRq</a>	Aggregate	Required	Inventory Status Modify Request
<a href="#">MediaAcctAddRq</a>	Aggregate	Required	Media Account Add Message
<a href="#">MediaAcctAudRq</a>	Aggregate	Required	Media Account Audit Request
<a href="#">MediaAcctInqRq</a>	Aggregate	Required	Media Account Inquiry Request
<a href="#">MediaAcctModRq</a>	Aggregate	Required	Media Account Modify Request
<a href="#">MediaAcctStatusModRq</a>	Aggregate	Required	Media Account Status Modify Request
<a href="#">MediaAcctSyncRq</a>	Aggregate	Required	Media Account Sync Request
<a href="#">MediaAcctTrnAddRq</a>	Aggregate	Required	Media Account Transaction Add Message
<a href="#">MediaAcctTrnAudRq</a>	Aggregate	Required	Media Account Transaction Audit Request
<a href="#">MediaAcctTrnInqRq</a>	Aggregate	Required	Media Account Transaction Inquiry Request
<a href="#">MediaAcctTrnModRq</a>	Aggregate	Required	Media Account Transaction Modify Request
<a href="#">MediaAcctTrnSyncRq</a>	Aggregate	Required	Media Account Transaction Sync Request
<a href="#">NoteAddRq</a>	Aggregate	Required	Note Add Message
<a href="#">NoteDelRq</a>	Aggregate	Required	Note Delete Request
<a href="#">NoteInqRq</a>	Aggregate	Required	Note Inquiry Request
<a href="#">NoteModRq</a>	Aggregate	Required	Note Modify Request
<a href="#">NoteStatusModRq</a>	Aggregate	Required	Note Status Modify Request
<a href="#">OfferAddRq</a>	Aggregate	Required	Offer Add Message
<a href="#">OfferAudRq</a>	Aggregate	Required	Offer Audit Request
<a href="#">OfferDelRq</a>	Aggregate	Required	Offer Delete Request
<a href="#">OfferInqRq</a>	Aggregate	Required	Offer Inquiry Request



<a href="#">OfferModRq</a>	Aggregate	Required	Offer Modify Request
<a href="#">OfferStatusInqRq</a>	Aggregate	Required	Offer Status Inquiry Request
<a href="#">OfferStatusModRq</a>	Aggregate	Required	Offer Status Modify Request
<a href="#">OfferSyncRq</a>	Aggregate	Required	Offer Sync Request
<a href="#">PartyAcctRelAddRq</a>	Aggregate	Required	Party Account Relationship Add Message
<a href="#">PartyAcctRelAdviseRq</a>	Aggregate	Required	Party Account Relationship Advise Message
<a href="#">PartyAcctRelAudRq</a>	Aggregate	Required	Party Account Relationship Audit Request
<a href="#">PartyAcctRelDelRq</a>	Aggregate	Required	Party Account Relationship Delete Request
<a href="#">PartyAcctRelInqRq</a>	Aggregate	Required	Party Account Relationship Inquiry Request
<a href="#">PartyAcctRelModRq</a>	Aggregate	Required	Party Account Relationship Modify Request
<a href="#">PartyAcctRelRevRq</a>	Aggregate	Required	Party Account Relationship Reversal Request
<a href="#">PartyAcctRelStatusInqRq</a>	Aggregate	Required	Party Account Relationship Status Inquiry Request
<a href="#">PartyAcctRelStatusModRq</a>	Aggregate	Required	Party Account Relationship Status Modify Request
<a href="#">PartyAcctRelSyncRq</a>	Aggregate	Required	Party Account Relationship Sync Request
<a href="#">PartyAddRq</a>	Aggregate	Required	Party Add Message
<a href="#">PartyAdviseRq</a>	Aggregate	Required	Party Advise Message
<a href="#">PartyAudRq</a>	Aggregate	Required	Party Audit Request
<a href="#">PartyAuthInqRq</a>	Aggregate	Required	Party Authorization Inquiry Request
<a href="#">PartyAuthModRq</a>	Aggregate	Required	Party Authorization Modify Request
<a href="#">PartyCardRelAddRq</a>	Aggregate	Required	Party Card Relationship Add Message
<a href="#">PartyCardRelAdviseRq</a>	Aggregate	Required	Party Card Relationship Advise Message
<a href="#">PartyCardRelAudRq</a>	Aggregate	Required	Party Card Relationship Audit Request
<a href="#">PartyCardRelDelRq</a>	Aggregate	Required	Party Card Relationship Delete Request
<a href="#">PartyCardRelInqRq</a>	Aggregate	Required	Party Card Relationship Inquiry Request
<a href="#">PartyCardRelModRq</a>	Aggregate	Required	Party Card Relationship Modify Request
<a href="#">PartyCardRelRevRq</a>	Aggregate	Required	Party Card Relationship Reversal Request

<a href="#">PartyCardRelStatusInqRq</a>	Aggregate	Required	Party Card Relationship Status Inquiry Request
<a href="#">PartyCardRelStatusModRq</a>	Aggregate	Required	Party Card Relationship Status Modify Request
<a href="#">PartyCardRelSyncRq</a>	Aggregate	Required	Party Card Relationship Sync Request
<a href="#">PartyDelRq</a>	Aggregate	Required	Party Delete Request
<a href="#">PartyInqRq</a>	Aggregate	Required	Party Inquiry Request
<a href="#">PartyModRq</a>	Aggregate	Required	Party Modify Request
<a href="#">PartyPartyRelAddRq</a>	Aggregate	Required	Party to Party Relationship Add Message
<a href="#">PartyPartyRelAdviseRq</a>	Aggregate	Required	Party to Party Relationship Advise Message
<a href="#">PartyPartyRelAudRq</a>	Aggregate	Required	Party to Party Relationship Audit Request
<a href="#">PartyPartyRelDelRq</a>	Aggregate	Required	Party to Party Relationship Delete Request
<a href="#">PartyPartyRelInqRq</a>	Aggregate	Required	Party to Party Relationship Inquiry Request
<a href="#">PartyPartyRelModRq</a>	Aggregate	Required	Party to Party Relationship Modify Request
<a href="#">PartyPartyRelRevRq</a>	Aggregate	Required	Party to Party Relationship Reversal Request
<a href="#">PartyPartyRelStatusInqRq</a>	Aggregate	Required	Party to Party Relationship Status Inquiry Request
<a href="#">PartyPartyRelStatusModRq</a>	Aggregate	Required	Party to Party Relationship Status Modify Request
<a href="#">PartyPartyRelSyncRq</a>	Aggregate	Required	Party to Party Relationship Sync Request
<a href="#">PartyRevRq</a>	Aggregate	Required	Party Reversal Request
<a href="#">PartyStatusInqRq</a>	Aggregate	Required	Party Status Inquiry Request
<a href="#">PartyStatusModRq</a>	Aggregate	Required	Party Status Modify Request
<a href="#">PartySvcAcctRelAddRq</a>	Aggregate	Required	Party Service Account Relationship Add Message
<a href="#">PartySvcAcctRelDelRq</a>	Aggregate	Required	Party Service Account Relationship Delete Request
<a href="#">PartySvcAcctRelInqRq</a>	Aggregate	Required	Party Service Account Relationship Inquiry Request
<a href="#">PartySvcAcctRelModRq</a>	Aggregate	Required	Party Service Account Relationship Modify Request
<a href="#">PartySvcAcctRelStatusInqRq</a>	Aggregate	Required	Party Service Account Relationship Status Inquiry Request
<a href="#">PartySvcAcctRelStatusModRq</a>	Aggregate	Required	Party Service Account Relationship Status Modify

			Request
<a href="#">PartySvcRelAddRq</a>	Aggregate	Required	Party Service Relationship Add Message
<a href="#">PartySvcRelAdviseRq</a>	Aggregate	Required	Party Service Relationship Advise Message
<a href="#">PartySvcRelAudRq</a>	Aggregate	Required	Party Service Relationship Audit Request
<a href="#">PartySvcRelAuthInqRq</a>	Aggregate	Required	Party Service Relationship Authorization Inquiry Request
<a href="#">PartySvcRelAuthModRq</a>	Aggregate	Required	Party Service Relationship Authorization Modify Request
<a href="#">PartySvcRelDelRq</a>	Aggregate	Required	Party Service Relationship Delete Request
<a href="#">PartySvcRelInqRq</a>	Aggregate	Required	Party Service Relationship Inquiry Request
<a href="#">PartySvcRelModRq</a>	Aggregate	Required	Party Service Relationship Modify Request
<a href="#">PartySvcRelStatusInqRq</a>	Aggregate	Required	Party Service Relationship Status Inquiry Request
<a href="#">PartySvcRelStatusModRq</a>	Aggregate	Required	Party Service Relationship Status Modify Request
<a href="#">PartySvcRelSyncRq</a>	Aggregate	Required	Party Service Relationship Sync Request
<a href="#">PartySyncRq</a>	Aggregate	Required	Party Sync Request
<a href="#">PassbkAddRq</a>	Aggregate	Required	Passbook Add Request
<a href="#">PassbkAudRq</a>	Aggregate	Required	Passbook Audit Request
<a href="#">PassbkDelRq</a>	Aggregate	Required	Passbook Delete Request
<a href="#">PassbkInqRq</a>	Aggregate	Required	Passbook Inquiry Request
<a href="#">PassbkItemAddRq</a>	Aggregate	Required	Passbook Item Add Request
<a href="#">PassbkItemAudRq</a>	Aggregate	Required	Passbook Item Audit Request
<a href="#">PassbkItemDelRq</a>	Aggregate	Required	Passbook Item Delete Request
<a href="#">PassbkItemInqRq</a>	Aggregate	Required	Passbook Item Inquiry Request
<a href="#">PassbkItemModRq</a>	Aggregate	Required	Passbook Item Modify Request
<a href="#">PassbkItemRevRq</a>	Aggregate	Required	Passbook Item Reversal Request
<a href="#">PassbkItemStatusInqRq</a>	Aggregate	Required	Passbook Item Status Inquiry Request
<a href="#">PassbkItemStatusModRq</a>	Aggregate	Required	Passbook Item Status Modify Request
<a href="#">PassbkItemSyncRq</a>	Aggregate	Required	Passbook Item Sync Request
<a href="#">PassbkModRq</a>	Aggregate	Required	Passbook Modify Request

<a href="#">PassbkRevRq</a>	Aggregate	Required	Passbook Reversal Request
<a href="#">PassbkStatusInqRq</a>	Aggregate	Required	Passbook Status Inquiry Request
<a href="#">PassbkStatusModRq</a>	Aggregate	Required	Passbook Status Modify Request
<a href="#">PassbkSyncRq</a>	Aggregate	Required	Passbook Sync Request
<a href="#">PmtAddRq</a>	Aggregate	Required	Payment Add Request
<a href="#">PmtAudRq</a>	Aggregate	Required	Payment Audit Request
<a href="#">PmtBatchAddRq</a>	Aggregate	Required	Payment Batch Add Request
<a href="#">PmtBatchCanRq</a>	Aggregate	Required	Payment Batch Cancel Request
<a href="#">PmtBatchRevRq</a>	Aggregate	Required	Payment Batch Reversal Request
<a href="#">PmtBatchStatAdviseRq</a>	Aggregate	Required	Payment Batch Status Advise Request
<a href="#">PmtBatchStatInqRq</a>	Aggregate	Required	Payment Batch Status Inquiry Request
<a href="#">PmtCanRq</a>	Aggregate	Required	Payment Cancel Request
<a href="#">PmtEnclAddRq</a>	Aggregate	Required	Payment Enclosed Add Request
<a href="#">PmtEnclAdviseRq</a>	Aggregate	Required	Payment Enclosed Advise Response
<a href="#">PmtEnclAudRq</a>	Aggregate	Required	Payment Enclosed Audit Request
<a href="#">PmtEnclCanRq</a>	Aggregate	Required	Payment Enclosed Cancel Request
<a href="#">PmtEnclInqRq</a>	Aggregate	Required	Payment Enclosed Inquiry Response
<a href="#">PmtEnclModRq</a>	Aggregate	Required	Payment Enclosed Modify Request
<a href="#">PmtEnclRevRq</a>	Aggregate	Required	Payment Enclosed Reversal Request
<a href="#">PmtEnclStatusModRq</a>	Aggregate	Required	Payment Enclosed Status Modify Request
<a href="#">PmtInqRq</a>	Aggregate	Required	Payment Inquiry Request
<a href="#">PmtModRq</a>	Aggregate	Required	Payment Modify Request
<a href="#">PmtRevRq</a>	Aggregate	Required	Payment Reversal Request
<a href="#">PmtSyncRq</a>	Aggregate	Required	Payment Synchronization Request
<a href="#">ProdIntRateInqRq</a>	Aggregate	Required	Product Interest Rate Inquiry Request
<a href="#">PurchItemAddRq</a>	Aggregate	Required	Purchase Item Add Message
<a href="#">PurchItemDelRq</a>	Aggregate	Required	Purchase Item Delete Request

<a href="#">PurchItemInqRq</a>	Aggregate	Required	Purchase Item Inquiry Request
<a href="#">PurchItemModRq</a>	Aggregate	Required	Purchase Item Modify Request
<a href="#">PurchItemRevRq</a>	Aggregate	Required	Purchase Item Reversal Request
<a href="#">RecurChkOrdAddRq</a>	Aggregate	Required	Recurring Check Order Add Request
<a href="#">RecurChkOrdAudRq</a>	Aggregate	Required	Recurring Check Order Audit Request
<a href="#">RecurChkOrdCanRq</a>	Aggregate	Required	Recurring Check Order Cancellation Request
<a href="#">RecurChkOrdDelRq</a>	Aggregate	Required	
<a href="#">RecurChkOrdInqRq</a>	Aggregate	Required	Recurring Check Order Inquiry Request
<a href="#">RecurChkOrdModRq</a>	Aggregate	Required	Recurring Check Order Modification Request
<a href="#">RecurChkOrdSyncRq</a>	Aggregate	Required	Recurring Check Order Synchronization Request
<a href="#">RecurPmtAddRq</a>	Aggregate	Required	Recurring Payment Model Add
<a href="#">RecurPmtAudRq</a>	Aggregate	Required	Recurring Payment Model Audit Request
<a href="#">RecurPmtCanRq</a>	Aggregate	Required	Recurring Payment Model Cancel Request
<a href="#">RecurPmtDelRq</a>	Aggregate	Required	
<a href="#">RecurPmtInqRq</a>	Aggregate	Required	Recurring Payment Model Inquiry
<a href="#">RecurPmtModRq</a>	Aggregate	Required	Recurring Payment Model Modification Request
<a href="#">RecurPmtRevRq</a>	Aggregate	Required	Recurring Payment Model Reversal Request
<a href="#">RecurPmtSyncRq</a>	Aggregate	Required	Recurring Payment Model Synchronization Request
<a href="#">RecurXferAddRq</a>	Aggregate	Required	Recurring Transfer Add Request
<a href="#">RecurXferAudRq</a>	Aggregate	Required	Recurring Transfer Audit Request
<a href="#">RecurXferCanRq</a>	Aggregate	Required	Recurring Transfer Cancel Request
<a href="#">RecurXferDelRq</a>	Aggregate	Required	
<a href="#">RecurXferInqRq</a>	Aggregate	Required	Recurring Transfer Inquiry Request
<a href="#">RecurXferModRq</a>	Aggregate	Required	Recurring Transfer Modify Request
<a href="#">RecurXferRevRq</a>	Aggregate	Required	Recurring Transfer Reversal Request
<a href="#">RecurXferSyncRq</a>	Aggregate	Required	Recurring Transfer Sync

			Request
<a href="#">RemitAddRq</a>	Aggregate	Required	Remittance Add Request
<a href="#">RemitAudRq</a>	Aggregate	Required	Remittance Audit Request
<a href="#">RemitDelRq</a>	Aggregate	Required	Remittance Delete Request
<a href="#">RemitInqRq</a>	Aggregate	Required	Remittance Inquiry Request
<a href="#">RemitModRq</a>	Aggregate	Required	Remittance Modify Request
<a href="#">RemitRevRq</a>	Aggregate	Required	Remittance Reversal Request
<a href="#">RemitStatusModRq</a>	Aggregate	Required	Remittance Status Modify Request
<a href="#">RemitSyncRq</a>	Aggregate	Required	Remittance Synchronization Request
<a href="#">SecObjAddRq</a>	Aggregate	Required	Security Object Add Request
<a href="#">SecObjAdviseRq</a>	Aggregate	Required	Security Object Advise Request
<a href="#">SecObjDelRq</a>	Aggregate	Required	Security Object Delete Request
<a href="#">SecObjInqRq</a>	Aggregate	Required	Security Object Inquiry Request
<a href="#">SecObjModRq</a>	Aggregate	Required	Security Object Modify Request
<a href="#">SecObjStatusInqRq</a>	Aggregate	Required	Security Object Status Inquiry Request
<a href="#">SecObjSyncRq</a>	Aggregate	Required	Security Object Sync Request
<a href="#">StdPayeeInqRq</a>	Aggregate	Required	Standard Payee Inquiry
<a href="#">StdPayeeRevRq</a>	Aggregate	Required	Standard Payee Reversal Request
<a href="#">StopChkAddRq</a>	Aggregate	Required	Stop Check Add Request
<a href="#">StopChkAdviseRq</a>	Aggregate	Required	Stop Check Advise Request
<a href="#">StopChkAudRq</a>	Aggregate	Required	Stop Check Audit Request
<a href="#">StopChkCanRq</a>	Aggregate	Required	Stop Check Cancel Request
<a href="#">StopChkInqRq</a>	Aggregate	Required	Stop Check Inquiry Request
<a href="#">StopChkRevRq</a>	Aggregate	Required	Stop Check Reversal Request
<a href="#">StopChkSyncRq</a>	Aggregate	Required	Stop Check Sync Request
<a href="#">SvcAdviseRq</a>	Aggregate	Required	Service Advise Message
<a href="#">SvcInqRq</a>	Aggregate	Required	Service Inquiry Request
<a href="#">SvcProviderInqRq</a>	Aggregate	Required	Service Provider Inquiry Request
<a href="#">SvcStatusInqRq</a>	Aggregate	Required	Service Status Inquiry Request
<a href="#">SvcSyncRq</a>	Aggregate	Required	Service Sync Request
<a href="#">TerminalObjAddRq</a>	Aggregate	Required	Terminal Object Add Request

<a href="#">TerminalObjAdviseRq</a>	Aggregate	Required	Terminal Object Advise Request
<a href="#">TerminalObjAudRq</a>	Aggregate	Required	Terminal Object Audit Request
<a href="#">TerminalObjDelRq</a>	Aggregate	Required	Terminal Object Delete Request
<a href="#">TerminalObjInqRq</a>	Aggregate	Required	Terminal Object Inquiry Request
<a href="#">TerminalObjModRq</a>	Aggregate	Required	Terminal Object Modify Request
<a href="#">TerminalObjStatusModRq</a>	Aggregate	Required	Terminal Object Status Modify Request
<a href="#">TerminalSPObjAddRq</a>	Aggregate	Required	Terminal Service Provider Object Add Request
<a href="#">TerminalSPObjAdviseRq</a>	Aggregate	Required	Terminal Service Provider Object Advise Request
<a href="#">TerminalSPObjAudRq</a>	Aggregate	Required	Terminal Service Provider Object Audit Request
<a href="#">TerminalSPObjDelRq</a>	Aggregate	Required	Terminal Service Provider Object Delete Request
<a href="#">TerminalSPObjInqRq</a>	Aggregate	Required	Terminal Service Provider Object Inquiry Request
<a href="#">TerminalSPObjModRq</a>	Aggregate	Required	Terminal Service Provider Object Modification Request
<a href="#">XferAddRq</a>	Aggregate	Required	Funds Transfer Add Request
<a href="#">XferAdviseRq</a>	Aggregate	Required	Funds Transfer Advise Request
<a href="#">XferAudRq</a>	Aggregate	Required	Funds Transfer Audit Request
<a href="#">XferCanRq</a>	Aggregate	Required	Funds Transfer Cancel Request
<a href="#">XferInqRq</a>	Aggregate	Required	Funds Transfer Inquiry Request
<a href="#">XferModRq</a>	Aggregate	Required	Funds Transfer Modify Request
<a href="#">XferRevRq</a>	Aggregate	Required	Funds Transfer Reversal Request
<a href="#">XferStatusModRq</a>	Aggregate	Required	Funds Transfer Status Modify Request
<a href="#">XferSyncRq</a>	Aggregate	Required	Funds Transfer Sync Request
<a href="#">ForExQuoteAddOperRq</a>	Aggregate	Required	Foreign Exchange Add Operation Request
<a href="#">ForExDealAddOperRq</a>	Aggregate	Required	ForExDealAddOper Request
end-xor			
begin-xor		Required Repeating	
<a href="#">AcctAcctRelAddRs</a>	Aggregate	Required	Account to Account

			Relationship Add Response
<a href="#">AcctAcctRelDelRs</a>	Aggregate	Required	Account to Account Relationship Delete Response
<a href="#">AcctAcctRelInqRs</a>	Aggregate	Required	Account to Account Relationship Inquiry Response
<a href="#">AcctAcctRelModRs</a>	Aggregate	Required	Account to Account Relationship Modify Response
<a href="#">AcctAcctRelStatusInqRs</a>	Aggregate	Required	Account to Account Relationship Status Inquiry Response
<a href="#">AcctAcctRelStatusModRs</a>	Aggregate	Required	Account to Account Relationship Status Modify Response
<a href="#">AcctAddRs</a>	Aggregate	Required	Account Add Response
<a href="#">AcctAdviseRs</a>	Aggregate	Required	Account Advise Response
<a href="#">AcctAudRs</a>	Aggregate	Required	Account Audit Response
<a href="#">AcctDelRs</a>	Aggregate	Required	
<a href="#">AcctHoldAddRs</a>	Aggregate	Required	Account Hold Add Response
<a href="#">AcctHoldDelRs</a>	Aggregate	Required	Account Hold Delete Response
<a href="#">AcctHoldInqRs</a>	Aggregate	Required	Account Hold Inquiry Response
<a href="#">AcctHoldModRs</a>	Aggregate	Required	Account Hold Modify Response
<a href="#">AcctHoldStatusInqRs</a>	Aggregate	Required	Account Hold Status Inquiry Response
<a href="#">AcctHoldStatusModRs</a>	Aggregate	Required	Account Hold Status Modify Response
<a href="#">AcctInqRs</a>	Aggregate	Required	Account Inquiry Response
<a href="#">AcctModRs</a>	Aggregate	Required	Account Modify Response
<a href="#">AcctPayOffAddRs</a>	Aggregate	Required	Account PayOff Add Response
<a href="#">AcctPayOffInqRs</a>	Aggregate	Required	Account PayOff Inquiry Response
<a href="#">AcctPayOffStatusModRs</a>	Aggregate	Required	Account PayOff Status Modify Response
<a href="#">AcctRevRs</a>	Aggregate	Required	Account Reversal Response
<a href="#">AcctStatusInqRs</a>	Aggregate	Required	Account Status Inquiry Response
<a href="#">AcctStatusModRs</a>	Aggregate	Required	Account Status Modify Response
<a href="#">AcctStmtAdviseRs</a>	Aggregate	Required	Account Statement Advise Response
<a href="#">AcctStmtInqRs</a>	Aggregate	Required	Account Statement Inquiry Response



<a href="#">AcctStmtRevRs</a>	Aggregate	Required	Account Statement Reversal Response
<a href="#">AcctStmtStatusInqRs</a>	Aggregate	Required	Account Statement Status Inquiry Response
<a href="#">AcctStmtStatusModRs</a>	Aggregate	Required	Account Statement Status Modify Response
<a href="#">AcctSyncRs</a>	Aggregate	Required	Account Sync Response
<a href="#">AcctTrnAdviseRs</a>	Aggregate	Required	Account Transaction Advise Response
<a href="#">AcctTrnImgAddRs</a>	Aggregate	Required	Account Transaction Image Add Response
<a href="#">AcctTrnImgDelRs</a>	Aggregate	Required	Account Transaction Image Delete Response
<a href="#">AcctTrnImgInqRs</a>	Aggregate	Required	Account Transaction Image Inquiry Response
<a href="#">AcctTrnImgRevRs</a>	Aggregate	Required	Account Transaction Image Reversal Response
<a href="#">AcctTrnInqRs</a>	Aggregate	Required	Account Transaction Inquiry Response
<a href="#">AcctTrnRevRs</a>	Aggregate	Required	Account Transaction Reversal Response
<a href="#">AlertAddRs</a>	Aggregate	Required	Alert Add Response
<a href="#">AlertDelRs</a>	Aggregate	Required	Alert Delete Response
<a href="#">AlertInqRs</a>	Aggregate	Required	Alert Inquiry Response
<a href="#">AlertModRs</a>	Aggregate	Required	Alert Modify Response
<a href="#">AlertStatusInqRs</a>	Aggregate	Required	Alert Status Inquiry Response
<a href="#">AlertStatusModRs</a>	Aggregate	Required	Alert Status Modify Response
<a href="#">AthAddRs</a>	Aggregate	Required	Authorization Add Response
<a href="#">AthAdviseRs</a>	Aggregate	Required	Authorization Advise Response
<a href="#">AthAudRs</a>	Aggregate	Required	Authorization Audit Response
<a href="#">AthCanRs</a>	Aggregate	Required	Authorization Cancel Response
<a href="#">AthInqRs</a>	Aggregate	Required	Authorization Inquiry Response
<a href="#">AthModRs</a>	Aggregate	Required	Authorization Modify Response
<a href="#">AthRevRs</a>	Aggregate	Required	Authorization Reversal Response
<a href="#">AthStatusInqRs</a>	Aggregate	Required	Authorization Status Inquiry Response
<a href="#">AthStatusModRs</a>	Aggregate	Required	Authorization Status Modify Response
<a href="#">AthSyncRs</a>	Aggregate	Required	Authorization Sync Response

<a href="#">BillerInqRs</a>	Aggregate	Required	Biller Inquiry Response
<a href="#">BillerRevRs</a>	Aggregate	Required	Biller Reversal Response
<a href="#">BillInqRs</a>	Aggregate	Required	Bill Inquiry Response
<a href="#">BillRevRs</a>	Aggregate	Required	Bill Reversal Response
<a href="#">BillStatusModRs</a>	Aggregate	Required	Bill Status Modification Response
<a href="#">CardAcctRelAddRs</a>	Aggregate	Required	Card Account Relationship Add Response
<a href="#">CardAcctRelAdviseRs</a>	Aggregate	Required	Card Account Relationship Advise Response
<a href="#">CardAcctRelAudRs</a>	Aggregate	Required	Card Account Relationship Audit Response
<a href="#">CardAcctRelDelRs</a>	Aggregate	Required	Card Account Relationship Delete Response
<a href="#">CardAcctRelInqRs</a>	Aggregate	Required	Card Account Relationship Inquiry Response
<a href="#">CardAcctRelModRs</a>	Aggregate	Required	Card Account Relationship Modify Response
<a href="#">CardAcctRelRevRs</a>	Aggregate	Required	Card Account Relationship Reversal Response
<a href="#">CardAcctRelStatusInqRs</a>	Aggregate	Required	Card Account Relationship Status Inquiry Response
<a href="#">CardAcctRelStatusModRs</a>	Aggregate	Required	Card Account Relationship Status Modify Response
<a href="#">CardAcctRelSyncRs</a>	Aggregate	Required	Card Account Relationship Sync Response
<a href="#">CardAddRs</a>	Aggregate	Required	Card Add Response
<a href="#">CardAdviseRs</a>	Aggregate	Required	Card Advise Response
<a href="#">CardAudRs</a>	Aggregate	Required	Card Audit Response
<a href="#">CardAuthInqRs</a>	Aggregate	Required	Card Authorization Inquiry Response
<a href="#">CardAuthModRs</a>	Aggregate	Required	Card Authorizatio Modify Response
<a href="#">CardDelRs</a>	Aggregate	Required	Card Delete Response
<a href="#">CardInqRs</a>	Aggregate	Required	Card Inquiry Response
<a href="#">CardModRs</a>	Aggregate	Required	Card Modify Response
<a href="#">CardOrderAddRs</a>	Aggregate	Required	Card Order Add Response
<a href="#">CardOrderAdviseRs</a>	Aggregate	Required	Card Order Advise Response
<a href="#">CardOrderAudRs</a>	Aggregate	Required	Card Order Audit Response
<a href="#">CardOrderCanRs</a>	Aggregate	Required	Card Order Cancel Response
<a href="#">CardOrderInqRs</a>	Aggregate	Required	Card Order Inquiry Response
<a href="#">CardOrderModRs</a>	Aggregate	Required	Card Order Modify Response

<a href="#">CardOrderRevRs</a>	Aggregate	Required	Card Order Reversal Response
<a href="#">CardOrderStatusInqRs</a>	Aggregate	Required	Card Order Status Inquiry Response
<a href="#">CardOrderStatusModRs</a>	Aggregate	Required	Card Order Status Modify Response
<a href="#">CardOrderSyncRs</a>	Aggregate	Required	Card Order Sync Response
<a href="#">CardRevRs</a>	Aggregate	Required	Card Reversal Response
<a href="#">CardStatusInqRs</a>	Aggregate	Required	Card Status Inquiry Response
<a href="#">CardStatusModRs</a>	Aggregate	Required	Card Status Modify Response
<a href="#">CardSyncRs</a>	Aggregate	Required	Card Sync Response
<a href="#">CardUpdateStatusModRs</a>	Aggregate	Required	Card Update Status Modify Response
<a href="#">ChkAcceptAddRs</a>	Aggregate	Required	Check Accept Add Response
<a href="#">ChkAcceptAudRs</a>	Aggregate	Required	Check Accept Audit Response
<a href="#">ChkAcceptCanRs</a>	Aggregate	Required	Check Accept Cancel Response
<a href="#">ChkAcceptInqRs</a>	Aggregate	Required	Check Accept Inquiry Response
<a href="#">ChkAcceptModRs</a>	Aggregate	Required	Check Accept Modify Response
<a href="#">ChkAcceptRevRs</a>	Aggregate	Required	Check Accept Reversal Response
<a href="#">ChkAcceptStatusModRs</a>	Aggregate	Required	Check Accept Status Modify Response
<a href="#">ChkAcceptSyncRs</a>	Aggregate	Required	Check Accept Synchronization Response
<a href="#">ChkIssueAddRs</a>	Aggregate	Required	Check Issue Add Response
<a href="#">ChkIssueAdviseRs</a>	Aggregate	Required	Check Issue Advise Response
<a href="#">ChkIssueAudRs</a>	Aggregate	Required	Check Issue Audit Response
<a href="#">ChkIssueDelRs</a>	Aggregate	Required	Check Issue Delete Response
<a href="#">ChkIssueInqRs</a>	Aggregate	Required	Check Issue Inquiry Response
<a href="#">ChkIssueModRs</a>	Aggregate	Required	Check Issue Modification Request
<a href="#">ChkIssueStatusModRs</a>	Aggregate	Required	Check Issue Status Modification Response
<a href="#">ChkIssueSyncRs</a>	Aggregate	Required	Check Issue Synchronization Response
<a href="#">ChkOrdAddRs</a>	Aggregate	Required	Check Order Add Response
<a href="#">ChkOrdAdviseRs</a>	Aggregate	Required	Check Order Advise Response
<a href="#">ChkOrdAudRs</a>	Aggregate	Required	Check Order Audit Response
<a href="#">ChkOrdDelRs</a>	Aggregate	Required	

<a href="#">ChkOrdInqRs</a>	Aggregate	Required	Check Order Inquiry Response
<a href="#">ChkOrdModRs</a>	Aggregate	Required	Check Order Modify Response
<a href="#">ChkOrdRevRs</a>	Aggregate	Required	Check Order Reversal Response
<a href="#">ChkOrdSyncRs</a>	Aggregate	Required	Check Order Synchronization Response
<a href="#">ChksumAddRs</a>	Aggregate	Required	Check Sum Add Response
<a href="#">ChksumAdviseRs</a>	Aggregate	Required	Checksum Advise Response
<a href="#">ChksumAudRs</a>	Aggregate	Required	Checksum Audit Response
<a href="#">ChksumDelRs</a>	Aggregate	Required	Checksum Delete Response
<a href="#">ChksumInqRs</a>	Aggregate	Required	Checksum Inquiry Response
<a href="#">ChksumModRs</a>	Aggregate	Required	Checksum Modify Response
<a href="#">ChksumStatusModRs</a>	Aggregate	Required	Checksum Status Modify Response
<a href="#">ChksumSyncRs</a>	Aggregate	Required	Checksum Synchronization Response
<a href="#">CompRemitStmtAddRs</a>	Aggregate	Required	Comprehensible Remittance Statement Add Response
<a href="#">CompRemitStmtAudRs</a>	Aggregate	Required	Comprehensible Remittance Statement Audit Response
<a href="#">CompRemitStmtInqRs</a>	Aggregate	Required	Comprehensible Remittance Statement Inquiry Response
<a href="#">CompRemitStmtSyncRs</a>	Aggregate	Required	Comprehensible Remittance Statement Synchronization Response
<a href="#">CreditAddRs</a>	Aggregate	Required	Credit Add Response
<a href="#">CreditAdviseRs</a>	Aggregate	Required	Credit Advise Response
<a href="#">CreditAudRs</a>	Aggregate	Required	Credit Audit Response
<a href="#">CreditCanRs</a>	Aggregate	Required	Credit Cancel Response
<a href="#">CreditInqRs</a>	Aggregate	Required	Credit Inquiry Response
<a href="#">CreditModRs</a>	Aggregate	Required	Credit Modification Response
<a href="#">CreditRevRs</a>	Aggregate	Required	Credit Reversal Response
<a href="#">CreditStatusModRs</a>	Aggregate	Required	Credit Status Modify Request
<a href="#">CreditSyncRs</a>	Aggregate	Required	Credit Synchronization Response
<a href="#">CustPayeeAddRs</a>	Aggregate	Required	Customer Payee Add Response
<a href="#">CustPayeeAudRs</a>	Aggregate	Required	Customer Payee Audit Response
<a href="#">CustPayeeDelRs</a>	Aggregate	Required	Customer Payee Delete Response
<a href="#">CustPayeeInqRs</a>	Aggregate	Required	Customer Payee Inquiry

			Response
<a href="#">CustPayeeModRs</a>	Aggregate	Required	Customer Payee Modify Response
<a href="#">CustPayeeSyncRs</a>	Aggregate	Required	Customer Payee Synchronization Response
<a href="#">DebitAddRs</a>	Aggregate	Required	Debit Add Response
<a href="#">DebitAdviseRs</a>	Aggregate	Required	Debit Advise Response
<a href="#">DebitAudRs</a>	Aggregate	Required	Debit Audit Response
<a href="#">DebitCanRs</a>	Aggregate	Required	Debit Cancel Response
<a href="#">DebitInqRs</a>	Aggregate	Required	Debit Inquiry Response
<a href="#">DebitModRs</a>	Aggregate	Required	Debit Modify Response
<a href="#">DebitRevRs</a>	Aggregate	Required	Debit Reversal Response
<a href="#">DebitStatusModRs</a>	Aggregate	Required	Debit Status Modify Response
<a href="#">DebitSyncRs</a>	Aggregate	Required	Debit Synchronization Response
<a href="#">DepBkOrdAddRs</a>	Aggregate	Required	Deposit Book Order Add Response
<a href="#">DepBkOrdAdviseRs</a>	Aggregate	Required	Deposit Book Order Advise Response
<a href="#">DepBkOrdDelRs</a>	Aggregate	Required	
<a href="#">DepBkOrdInqRs</a>	Aggregate	Required	
<a href="#">DepBkOrdModRs</a>	Aggregate	Required	
<a href="#">DevAdviseRs</a>	Aggregate	Required	Devise Advise Response
<a href="#">DevInqRs</a>	Aggregate	Required	Device Inquiry Response
<a href="#">DisclInqRs</a>	Aggregate	Required	Disclosure Inquiry Response
<a href="#">DisputeAddRs</a>	Aggregate	Required	Dispute Add Response
<a href="#">DisputeDelRs</a>	Aggregate	Required	Dispute Delete Response
<a href="#">DisputeInqRs</a>	Aggregate	Required	Dispute Inquiry Response
<a href="#">DisputeModRs</a>	Aggregate	Required	Dispute Modify Response
<a href="#">DisputeStatusInqRs</a>	Aggregate	Required	Dispute Status Inquiry Response
<a href="#">DisputeStatusModRs</a>	Aggregate	Required	Dispute Status Modify Response
<a href="#">ForExDealAddRs</a>	Aggregate	Required	Foreign Exchange Deal Status Add Response
<a href="#">ForExDealAdviseRs</a>	Aggregate	Required	Foreign Exchange Deal Status Advise Response
<a href="#">ForExDealCanRs</a>	Aggregate	Required	Foreign Exchange Deal Cancel Response
<a href="#">ForExDealInqRs</a>	Aggregate	Required	Foreign Exchange Deal Inquiry Response

<a href="#">ForExDealModRs</a>	Aggregate	Required	Foreign Exchange Deal Status Modify Response
<a href="#">ForExQuoteAddRs</a>	Aggregate	Required	Foreign Exchange Quote Add Response
<a href="#">ForExQuoteAdviseRs</a>	Aggregate	Required	Foreign Exchange Quote Advise Response
<a href="#">ForExQuoteCanRs</a>	Aggregate	Required	Foreign Exchange Quote Cancel Response
<a href="#">ForExQuoteInqRs</a>	Aggregate	Required	Foreign Exchange Quote Inquiry Response
<a href="#">ForExQuoteModRs</a>	Aggregate	Required	Foreign Exchange Quote Modify Response
<a href="#">ForExRateSheetAdviseRs</a>	Aggregate	Required	Foreign Exchange Rate Sheet Advise Response
<a href="#">ForExRateSheetInqRs</a>	Aggregate	Required	Foreign Exchange Rate Sheet Inquiry Response
<a href="#">InventoryAddRs</a>	Aggregate	Required	Inventory Add Response
<a href="#">InventoryDelRs</a>	Aggregate	Required	Inventory Delete Response
<a href="#">InventoryInqRs</a>	Aggregate	Required	Inventory Inquiry Response
<a href="#">InventoryModRs</a>	Aggregate	Required	Inventory Modify Response
<a href="#">InventoryStatusInqRs</a>	Aggregate	Required	Inventory Status Inquiry Response
<a href="#">InventoryStatusModRs</a>	Aggregate	Required	Inventory Status Modify Response
<a href="#">MediaAcctAddRs</a>	Aggregate	Required	Media Account Add Response
<a href="#">MediaAcctAudRs</a>	Aggregate	Required	Media Account Audit Response
<a href="#">MediaAcctInqRs</a>	Aggregate	Required	Media Account Inquiry Response
<a href="#">MediaAcctModRs</a>	Aggregate	Required	Media Account Modify Response
<a href="#">MediaAcctStatusModRs</a>	Aggregate	Required	Media Account Status Modify Response
<a href="#">MediaAcctSyncRs</a>	Aggregate	Required	Media Account Sync Response
<a href="#">MediaAcctTrnAddRs</a>	Aggregate	Required	Media Account Transaction Add Response
<a href="#">MediaAcctTrnAudRs</a>	Aggregate	Required	Media Account Transaction Audit Response
<a href="#">MediaAcctTrnInqRs</a>	Aggregate	Required	Media Account Transaction Inquiry Response
<a href="#">MediaAcctTrnModRs</a>	Aggregate	Required	Media Account Transaction Modify Response
<a href="#">MediaAcctTrnSyncRs</a>	Aggregate	Required	Media Account Transaction Sync Response

<a href="#">NoteAddRs</a>	Aggregate	Required	Note Add Response
<a href="#">NoteDelRs</a>	Aggregate	Required	Note Delete Response
<a href="#">NoteInqRs</a>	Aggregate	Required	Note Inquiry Response
<a href="#">NoteModRs</a>	Aggregate	Required	Note Modify Response
<a href="#">NoteStatusModRs</a>	Aggregate	Required	Note Status Modify Response
<a href="#">OfferAddRs</a>	Aggregate	Required	Offer Add Response
<a href="#">OfferAudRs</a>	Aggregate	Required	Offer Audit Response
<a href="#">OfferDelRs</a>	Aggregate	Required	Offer Delete Response
<a href="#">OfferInqRs</a>	Aggregate	Required	Offer Inquiry Response
<a href="#">OfferModRs</a>	Aggregate	Required	Offer Modify Response
<a href="#">OfferStatusInqRs</a>	Aggregate	Required	Offer Status Inquiry Response
<a href="#">OfferStatusModRs</a>	Aggregate	Required	Offer Status Modify Response
<a href="#">OfferSyncRs</a>	Aggregate	Required	Offer Sync Response
<a href="#">PartyAcctRelAddRs</a>	Aggregate	Required	Party Account Relationship Add Response
<a href="#">PartyAcctRelAdviseRs</a>	Aggregate	Required	Party Account Relationship Advise Response
<a href="#">PartyAcctRelAudRs</a>	Aggregate	Required	Party Account Relationship Audit Response
<a href="#">PartyAcctRelDelRs</a>	Aggregate	Required	Party Account Relationship Delete Response
<a href="#">PartyAcctRelInqRs</a>	Aggregate	Required	Party Account Relationship Inquiry Response
<a href="#">PartyAcctRelModRs</a>	Aggregate	Required	Party Account Relationship Modify Response
<a href="#">PartyAcctRelRevRs</a>	Aggregate	Required	Party Account Relationship Reversal Response
<a href="#">PartyAcctRelStatusInqRs</a>	Aggregate	Required	Party Account Relationship Status Inquiry Response
<a href="#">PartyAcctRelStatusModRs</a>	Aggregate	Required	Party Account Relationship Status Modify Response
<a href="#">PartyAcctRelSyncRs</a>	Aggregate	Required	Party Account Relationship Sync Response
<a href="#">PartyAddRs</a>	Aggregate	Required	Party Add Response
<a href="#">PartyAdviseRs</a>	Aggregate	Required	Party Advise Response
<a href="#">PartyAudRs</a>	Aggregate	Required	Party Audit Response
<a href="#">PartyAuthInqRs</a>	Aggregate	Required	Party Authorization Inquiry Response
<a href="#">PartyAuthModRs</a>	Aggregate	Required	Party Authorization Modify Response
<a href="#">PartyCardRelAddRs</a>	Aggregate	Required	Party Card Relationship Add Response

<a href="#">PartyCardRelAdviseRs</a>	Aggregate	Required	Party Card Relationship Advise Response
<a href="#">PartyCardRelAudRs</a>	Aggregate	Required	Party Card Relationship Audit Response
<a href="#">PartyCardRelDelRs</a>	Aggregate	Required	Party Card Relationship Delete Response
<a href="#">PartyCardRelInqRs</a>	Aggregate	Required	Party Card Relationship Inquiry Response
<a href="#">PartyCardRelModRs</a>	Aggregate	Required	Party Card Relationship Modify Response
<a href="#">PartyCardRelRevRs</a>	Aggregate	Required	Party Card Relationship Reversal Response
<a href="#">PartyCardRelStatusInqRs</a>	Aggregate	Required	Party Card Relationship Status Inquiry Response
<a href="#">PartyCardRelStatusModRs</a>	Aggregate	Required	Party Card Relationship Status Modify Response
<a href="#">PartyCardRelSyncRs</a>	Aggregate	Required	Party Card Relationship Sync Response
<a href="#">PartyDelRs</a>	Aggregate	Required	Party Delete Response
<a href="#">PartyInqRs</a>	Aggregate	Required	Party Inquiry Response
<a href="#">PartyModRs</a>	Aggregate	Required	Party Modify Response
<a href="#">PartyPartyRelAddRs</a>	Aggregate	Required	Party to Party Relationship Add Response
<a href="#">PartyPartyRelAdviseRs</a>	Aggregate	Required	Party to Party Relationship Advise Response
<a href="#">PartyPartyRelAudRs</a>	Aggregate	Required	Party to Party Relationship Audit Response
<a href="#">PartyPartyRelDelRs</a>	Aggregate	Required	Party to Party Relationship Delete Response
<a href="#">PartyPartyRelInqRs</a>	Aggregate	Required	Party to Party Relationship Inquiry Response
<a href="#">PartyPartyRelModRs</a>	Aggregate	Required	Party to Party Relationship Modify Response
<a href="#">PartyPartyRelRevRs</a>	Aggregate	Required	Party to Party Relationship Reversal Response
<a href="#">PartyPartyRelStatusInqRs</a>	Aggregate	Required	Party to Party Relationship Status Inquiry Response
<a href="#">PartyPartyRelStatusModRs</a>	Aggregate	Required	Party to Party Relationship Status Modify Response
<a href="#">PartyPartyRelSyncRs</a>	Aggregate	Required	Party to Party Relationship Sync Response
<a href="#">PartyRevRs</a>	Aggregate	Required	Party Reversal Response
<a href="#">PartyStatusInqRs</a>	Aggregate	Required	Party Status Inquiry Response
<a href="#">PartyStatusModRs</a>	Aggregate	Required	Party Status Modify Response
<a href="#">PartySvcAcctRelAddRs</a>	Aggregate	Required	Party Service Account



			Relationship Add Response
<a href="#">PartySvcAcctRelDelRs</a>	Aggregate	Required	Party Service Account Relationship Delete Response
<a href="#">PartySvcAcctRelInqRs</a>	Aggregate	Required	Party Service Account Relationship Inquiry Response
<a href="#">PartySvcAcctRelModRs</a>	Aggregate	Required	Party Service Account Relationship Modify Response
<a href="#">PartySvcAcctRelStatusInqRs</a>	Aggregate	Required	Party Service Account Relationship Status Inquiry Response
<a href="#">PartySvcAcctRelStatusModRs</a>	Aggregate	Required	Party Service Account Relationship Status Modify Response
<a href="#">PartySvcRelAddRs</a>	Aggregate	Required	Party Service Relationship Add Response
<a href="#">PartySvcRelAdviseRs</a>	Aggregate	Required	Party Service Relationship Advise Response
<a href="#">PartySvcRelAudRs</a>	Aggregate	Required	Party Service Relationship Audit Response
<a href="#">PartySvcRelAuthInqRs</a>	Aggregate	Required	Party Service Relationship Authorization Inquiry Response
<a href="#">PartySvcRelAuthModRs</a>	Aggregate	Required	Party Service Relationship Authorizatio Modify Response
<a href="#">PartySvcRelDelRs</a>	Aggregate	Required	Party Service Relationship Delete Response
<a href="#">PartySvcRelInqRs</a>	Aggregate	Required	Party Service Relationship Inquiry Response
<a href="#">PartySvcRelModRs</a>	Aggregate	Required	Party Service Relationship Modify Response
<a href="#">PartySvcRelStatusInqRs</a>	Aggregate	Required	Party Service Relationship Status Inquiry Response
<a href="#">PartySvcRelStatusModRs</a>	Aggregate	Required	Party Service Relationship Status Modify Response
<a href="#">PartySvcRelSyncRs</a>	Aggregate	Required	Party Service Relationship Sync Response
<a href="#">PartySyncRs</a>	Aggregate	Required	Party Sync Response
<a href="#">PassbkAddRs</a>	Aggregate	Required	Passbook Add Response
<a href="#">PassbkAudRs</a>	Aggregate	Required	Passbook Audit Response
<a href="#">PassbkDelRs</a>	Aggregate	Required	Passbook Delete Response
<a href="#">PassbkInqRs</a>	Aggregate	Required	Passbook Inquiry Response
<a href="#">PassbkItemAddRs</a>	Aggregate	Required	Passbook Item Add Response
<a href="#">PassbkItemAudRs</a>	Aggregate	Required	Passbook Item Audid Response
	Aggregate		

<a href="#">PassbkItemDelRs</a>		Required	Passbook Item Delete Response
<a href="#">PassbkItemInqRs</a>	Aggregate	Required	Passbook Item Inquiry Response
<a href="#">PassbkItemModRs</a>	Aggregate	Required	Passbook Item Modify Response
<a href="#">PassbkItemRevRs</a>	Aggregate	Required	Passbook Item Reversal Response
<a href="#">PassbkItemStatusInqRs</a>	Aggregate	Required	Passbook Item Status Inquiry Response
<a href="#">PassbkItemStatusModRs</a>	Aggregate	Required	Passbook Item Status Modify Response
<a href="#">PassbkItemSyncRs</a>	Aggregate	Required	Passbook Item Sync Response
<a href="#">PassbkModRs</a>	Aggregate	Required	Passbook Modify Response
<a href="#">PassbkRevRs</a>	Aggregate	Required	Passbook Reversal Response
<a href="#">PassbkStatusInqRs</a>	Aggregate	Required	Passbook Status Inquiry Response
<a href="#">PassbkStatusModRs</a>	Aggregate	Required	Passbook Status Modify Response
<a href="#">PassbkSyncRs</a>	Aggregate	Required	Passbook Sync Response
<a href="#">PmtAddRs</a>	Aggregate	Required	Payment Add Response
<a href="#">PmtAudRs</a>	Aggregate	Required	Payment Audit Response
<a href="#">PmtBatchAddRs</a>	Aggregate	Required	Payment Batch Add Response
<a href="#">PmtBatchCanRs</a>	Aggregate	Required	Payment Batch Cancel Response
<a href="#">PmtBatchRevRs</a>	Aggregate	Required	Payment Batch Reversal Response
<a href="#">PmtBatchStatAdviseRs</a>	Aggregate	Required	Payment Batch Status Advise Response
<a href="#">PmtBatchStatInqRs</a>	Aggregate	Required	Payment Batch Status Inquiry Response
<a href="#">PmtCanRs</a>	Aggregate	Required	Payment Cancel Response
<a href="#">PmtEnclAddRs</a>	Aggregate	Required	Payment Enclosed Add Response
<a href="#">PmtEnclAdviseRs</a>	Aggregate	Required	Payment Enclosure Advise Response
<a href="#">PmtEnclAudRs</a>	Aggregate	Required	Payment Enclosed Audit Response
<a href="#">PmtEnclCanRs</a>	Aggregate	Required	Payment Enclosed Cancel Response
<a href="#">PmtEnclInqRs</a>	Aggregate	Required	Payment Enclosed Inquiry Response
<a href="#">PmtEnclModRs</a>	Aggregate	Required	Payment Enclosed Modify Response

<a href="#">PmtEnclRevRs</a>	Aggregate	Required	Payment Enclosed Reversal Response
<a href="#">PmtEnclStatusModRs</a>	Aggregate	Required	Payment Enclosed Status Modify Response
<a href="#">PmtInqRs</a>	Aggregate	Required	Payment Inquiry Response
<a href="#">PmtModRs</a>	Aggregate	Required	Payment Modification Response
<a href="#">PmtRevRs</a>	Aggregate	Required	Payment Reversal Response
<a href="#">PmtSyncRs</a>	Aggregate	Required	Payment Synchronization Response
<a href="#">ProdIntRateInqRs</a>	Aggregate	Required	Product Interest Rate Inquiry Response
<a href="#">PurchItemAddRs</a>	Aggregate	Required	Purchase Item Add Response
<a href="#">PurchItemDelRs</a>	Aggregate	Required	Purchase Item Delete Response
<a href="#">PurchItemInqRs</a>	Aggregate	Required	Purchase Item Inquiry Response
<a href="#">PurchItemModRs</a>	Aggregate	Required	Purchase Item Modify Response
<a href="#">PurchItemRevRs</a>	Aggregate	Required	Purchase Item Reversal Response
<a href="#">RecurChkOrdAddRs</a>	Aggregate	Required	Recurring Check Order Add Response
<a href="#">RecurChkOrdAudRs</a>	Aggregate	Required	Recurring Check Order Audit Response
<a href="#">RecurChkOrdCanRs</a>	Aggregate	Required	Recurring Check Order Cancellation Response
<a href="#">RecurChkOrdDelRs</a>	Aggregate	Required	
<a href="#">RecurChkOrdInqRs</a>	Aggregate	Required	Recurring Check Order Inquiry Response
<a href="#">RecurChkOrdModRs</a>	Aggregate	Required	Recurring Check Order Modification Response
<a href="#">RecurChkOrdSyncRs</a>	Aggregate	Required	Recurring Check Order Synchronization Response
<a href="#">RecurPmtAddRs</a>	Aggregate	Required	Recurring Payment Model Add Response
<a href="#">RecurPmtAudRs</a>	Aggregate	Required	Recurring Payment Model Audit Response
<a href="#">RecurPmtCanRs</a>	Aggregate	Required	Recurring Payment Model Cancel Response
<a href="#">RecurPmtDelRs</a>	Aggregate	Required	
<a href="#">RecurPmtInqRs</a>	Aggregate	Required	Recurring Payment Model Inquiry Response
<a href="#">RecurPmtModRs</a>	Aggregate	Required	Recurring Payment Model Modification Response

<a href="#">RecurPmtRevRs</a>	Aggregate	Required	Recurring Payment Reversal Response
<a href="#">RecurPmtSyncRs</a>	Aggregate	Required	Recurring Payment Model Synchronization Response
<a href="#">RecurXferAddRs</a>	Aggregate	Required	Recurring Transfer Add Response
<a href="#">RecurXferAudRs</a>	Aggregate	Required	Recurring Transfer Audit Response
<a href="#">RecurXferCanRs</a>	Aggregate	Required	Recurring Transfer Cancel Response
<a href="#">RecurXferDelRs</a>	Aggregate	Required	
<a href="#">RecurXferInqRs</a>	Aggregate	Required	Recurring Transfer Inquiry Response
<a href="#">RecurXferModRs</a>	Aggregate	Required	Recurring Transfer Modify Response
<a href="#">RecurXferRevRs</a>	Aggregate	Required	Recurring Transfer Reversal Response
<a href="#">RecurXferSyncRs</a>	Aggregate	Required	Recurring Transfer Synchronous Response
<a href="#">RemitAddRs</a>	Aggregate	Required	Remittance Add Response
<a href="#">RemitAudRs</a>	Aggregate	Required	Remittance Audit Response
<a href="#">RemitDelRs</a>	Aggregate	Required	Remittance Delete Response
<a href="#">RemitInqRs</a>	Aggregate	Required	Remittance Inquiry Response
<a href="#">RemitModRs</a>	Aggregate	Required	Remittance Modification Response
<a href="#">RemitRevRs</a>	Aggregate	Required	Remittance Reversal Response
<a href="#">RemitStatusModRs</a>	Aggregate	Required	Remittance Status Modification Response
<a href="#">RemitSyncRs</a>	Aggregate	Required	Remittance Synchronization Response
<a href="#">SecObjAddRs</a>	Aggregate	Required	Security Object Add Response
<a href="#">SecObjAdviseRs</a>	Aggregate	Required	Security Object Advise Response
<a href="#">SecObjDelRs</a>	Aggregate	Required	Security Object Delete Response
<a href="#">SecObjInqRs</a>	Aggregate	Required	Security Object Inquiry Response
<a href="#">SecObjModRs</a>	Aggregate	Required	Security Object Modify Response
<a href="#">SecObjStatusInqRs</a>	Aggregate	Required	Security Object Status Inquiry Response
<a href="#">SecObjSyncRs</a>	Aggregate	Required	Security Object Sync Response
<a href="#">StdPayeeInqRs</a>	Aggregate	Required	Standard Payee Inquiry

			Response
<a href="#">StdPayeeRevRs</a>	Aggregate	Required	Standard Payee Reversal Response
<a href="#">StopChkAddRs</a>	Aggregate	Required	Stop Check Add Response
<a href="#">StopChkAdviseRs</a>	Aggregate	Required	Stop Check Advise Response
<a href="#">StopChkAudRs</a>	Aggregate	Required	Stop Check Audit Response
<a href="#">StopChkCanRs</a>	Aggregate	Required	Stop Check Cancel Response
<a href="#">StopChkInqRs</a>	Aggregate	Required	Stop Check Inquiry Response
<a href="#">StopChkRevRs</a>	Aggregate	Required	Stop Check Reversal Response
<a href="#">StopChkSyncRs</a>	Aggregate	Required	Stop Check Sync Response
<a href="#">SvcAdviseRs</a>	Aggregate	Required	Service Advise Response
<a href="#">SvcInqRs</a>	Aggregate	Required	Service Inquiry Response
<a href="#">SvcProviderInqRs</a>	Aggregate	Required	Service Provider Inquiry Response
<a href="#">SvcStatusInqRs</a>	Aggregate	Required	Service Status Inquiry Response
<a href="#">SvcSyncRs</a>	Aggregate	Required	Service Sync Response
<a href="#">TerminalObjAddRs</a>	Aggregate	Required	Terminal Object Add Response
<a href="#">TerminalObjAdviseRs</a>	Aggregate	Required	Terminal Object Advise Response
<a href="#">TerminalObjAudRs</a>	Aggregate	Required	Terminal Object Audit Response
<a href="#">TerminalObjDelRs</a>	Aggregate	Required	Terminal Object Delete Response
<a href="#">TerminalObjInqRs</a>	Aggregate	Required	Terminal Object Inquiry Response
<a href="#">TerminalObjModRs</a>	Aggregate	Required	Terminal Object Modify Response
<a href="#">TerminalObjStatusModRs</a>	Aggregate	Required	Terminal Object Status Modify Response
<a href="#">TerminalSPObjAddRs</a>	Aggregate	Required	Terminal Service Provider Object Add Response
<a href="#">TerminalSPObjAdviseRs</a>	Aggregate	Required	Terminal Service Provider Object Advise Response
<a href="#">TerminalSPObjAudRs</a>	Aggregate	Required	Terminal Service Provider Object Audit Response
<a href="#">TerminalSPObjDelRs</a>	Aggregate	Required	Terminal Service Provider Object Delete Response
<a href="#">TerminalSPObjInqRs</a>	Aggregate	Required	Terminal Service Provider Object Inquiry Response
<a href="#">TerminalSPObjModRs</a>	Aggregate	Required	Terminal Service Provider Object Modification Response

<a href="#">XferAddRs</a>	Aggregate	Required	Funds Transfer Add Response
<a href="#">XferAdviseRs</a>	Aggregate	Required	Funds Transfer Advise Response
<a href="#">XferAudRs</a>	Aggregate	Required	Funds Transfer Audit Response
<a href="#">XferCanRs</a>	Aggregate	Required	Funds Transfer Cancel Response
<a href="#">XferInqRs</a>	Aggregate	Required	Funds Transfer Inquiry Response
<a href="#">XferModRs</a>	Aggregate	Required	Funds Transfer Modify Response
<a href="#">XferRevRs</a>	Aggregate	Required	Funds Transfer Reversal Response
<a href="#">XferStatusModRs</a>	Aggregate	Required	Funds Transfer Status Modify Response
<a href="#">XferSyncRs</a>	Aggregate	Required	Funds Transfer Sync Response
<a href="#">ForExQuoteAddOperRs</a>	Aggregate	Required	Foreign Exchange Add Operation Response
<a href="#">ForExDealAddOperRs</a>	Aggregate	Required	ForExDealAddOper Response
end-xor			
end-xor			
end Aggregate			

---

### Image URL <ImageURL>

URL address for retrieving an image of a transaction or a complete bill encoded as HTML or a statement. This can be cached by the client for later display, or it can be viewed live directly from the Web.

Datatype: **URL**

---

### Immigration Status <ImmigrationStat>

Immigration Status.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
National		N
Citizen		Y
ResidentAlien		N
NonResidentAlien		N

---

### Import Date <ImportDt>

Import . The date the goods or services are imported.

Datatype: **Date**

---

### Include Disclosure <IncDisc>

Include Disclosure. Flag to indicate if the disclosure should be included in the response.

Datatype: **Boolean**

---

### Include Endorsement Stamp <IncEndrsmntStmp>

If true, an endorsement stamp is included with the check order. If false, no endorsement stamp is included with the product.

Datatype: **Boolean**

---

### Include All Relationships Indicator <IncludeAllRelInd>

Used to return all relationships regardless of whether AcctKeys is found as the primary account or relationship account in the AcctAcctRel object. Specify AcctKeys or RelAcctKeys only, not both.

Datatype: **Boolean**

---

### **Include Secondary Signature Line <IncSecSigLine>**

If True, a second signature line is printed below the first. If false, no secondary signature line is added.

Datatype: **Boolean**

---

### **Include Token <IncToken>**

Include Token. Flag to indicate if a token should be included in the response to set a base for future Audit/Sync messages.

Datatype: **Boolean**

---

### **Index <Index>**

Position relative to other entries.

Datatype: **Long**

---

### **Industry Identifier <IndustId>**

The <IndustId> aggregate provides standard codes by which industries are classified. <IndustId> is used in payments and other messages as information for reporting and accounting by industry code.



Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">Org</a>	Identifier	Required	Organization. Identifies the organization assigning numbers to different industries.  "SIC" identifies Standard Industrial Codes "NAICS" identifies North American Industrial Code System.
<a href="#">IndustNum</a>	NC-6	Required	Number identifying the industry.
end Aggregate			

---

**Industry Number <IndustNum>**

Number identifying the industry.

Datatype: **NC-6**

---

**Initial Amount <InitialAmount>**

Initial Amount

Extends: [CurAmt](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from CurAmt			
<a href="#">Amt</a>	Decimal	Optional	Amount.
<a href="#">CurCode</a>	Aggregate	Optional	Currency Code
end Elements from CurAmt			
begin Aggregate			
end Aggregate			

---

**Recurring Model Initial Amount <InitialCurAmt>**

May be different from nominal instance amount. If omitted, the default instance amount is used for the initial transfer or payment.

Extends:[CurAmt](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from CurAmt			
<a href="#">Amt</a>	Decimal	Optional	Amount.
<a href="#">CurCode</a>	Aggregate	Optional	Currency Code
end Elements from CurAmt			
begin Aggregate			
end Aggregate			

---

**Mortgage Insurance Paid Amount <InsPaidCurAmt>**

Extends:[CurAmt](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from CurAmt			
<a href="#">Amt</a>	Decimal	Optional	Amount.
<a href="#">CurCode</a>	Aggregate	Optional	Currency Code
end Elements from CurAmt			
begin Aggregate			
end Aggregate			

---

**Interest Annual Percentage Rate <IntAPR>**

Usage is a percentage on an annualized basis.

Datatype: **Decimal**

---

### Interest Annual Percentage Rate <IntAPY>

Annual Percentage Yield. Usage is percentage of yield on an annualized basis.

Datatype: **Decimal**

---

### Interest Disposition Data <IntDispData>

Interest Disposition Data

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">IntDisposition</a>	Open Enum	Required	Interest Disposition Valid values include: PayByCheck, PaymentToAccount, Redeposit, TransferToOtherAcct
<a href="#">IntDistAcctRef</a>	Aggregate	Optional	Interest Distribution Account Reference
end Aggregate			

---

### Interest Disposition <IntDisposition>

Indicates how interest should be applied.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Redeposit		N
TransferToOtherAcct	i.e. internal account	N
PayByCheck		N
PaymentToAccount	i.e. external account	N

---

### Interest Distribution Account Reference <IntDistAcctRef>

Interest Distribution Account Reference aggregate. Identifies the account to which interest payments should be deposited/paid if IntDisposition is ? TransferToOtherAcct? or ?PaymentToAcct?.

Extends: [AcctRef](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from AcctRef			
begin-xor		Required	
<a href="#">AcctKeys</a>	Aggregate	Required	Account Keys Aggregate
<a href="#">AcctRec</a>	Aggregate	Required	Account Record
<a href="#">AcctInfo</a>	Aggregate	Required	Account Information Aggregate
end-xor			
end Elements from AcctRef			
begin Aggregate			
end Aggregate			

---

### Interchange Service Code <InterchangeServiceCode>

The Interchange Service Code provides codes that increase issuers' flexibility in defining card acceptance parameters. These codes also provide Acquirers with the ability to interpret card acceptance preferences for all point-of-interaction (POI) conditions.

Datatype: **Open Enum**

# Enumerated Values

Value	Description	Is default
-------	-------------	------------

---

## Interest Rate <InterestRate>

Interest Rate

Datatype: **Decimal**

---

## Interest Rate Yield <InterestRateYield>

The amount of currency that will be realized by a Time Deposit at maturity date.

Extends: [CurAmt](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from CurAmt			
<a href="#">Amt</a>	Decimal	Optional	Amount.
<a href="#">CurCode</a>	Aggregate	Optional	Currency Code
end Elements from CurAmt			
begin Aggregate			
end Aggregate			

---

## Intermediary Account <IntermediaryAcct>

The Intermediary Bank Account aggregate is used to identify all intermediary bank accounts in a bank chain. This aggregate is used within the payment instruction to identify all banks that route the payment from the originating bank or <DepAcctIdFrom> to the receiving bank or <DepAcctIdTo>.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SeqNum</a>	Long	Required	Sequence number of the Intermediary bank in a bank chain.
<a href="#">AcctKeys</a>	Aggregate	Required	Deposit Account Identification Aggregate for the intermediary bank.
end Aggregate			

---

**Internal Score <InternalScore>**

Score generated by Financial Institution.

Datatype: **Long**

---

**Interbank Transfer Fee Currency Amount <IntlXferFeeCurAmt>**

Standard fee for an international interbank transfer.

Extends: [CurAmt](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from CurAmt			
<a href="#">Amt</a>	Decimal	Optional	Amount.
<a href="#">CurCode</a>	Aggregate	Optional	Currency Code
end Elements from CurAmt			
begin Aggregate			
end Aggregate			

---

## Interest Rate Category <IntRateCategory>

Identifies the type of balance or transaction applicable to the interest rate. Examples include Balance, Negative Balance, Promotion, Purchase, Cash Advance.

Datatype: **C-80**

---

## Interest Rate Data <IntRateData>

Interest rate information for debit and credit accounts.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RateMatrixTier</a>	Aggregate	Required Repeating	Rate Matrix Tier
<a href="#">IntRateCategory</a>	C-80	Optional	Interest Rate Category
<a href="#">Desc</a>	C-80	Optional	Description
<a href="#">BasedOnCode</a>	Open Enum	Optional	Source of Interest Rate Valid values include: InternalIndex, LIBOR, Prime
<a href="#">BasedOnValue</a>	Decimal	Optional	Value of BasedOnCode
<a href="#">AccrualFrequency</a>	Aggregate	Optional	Frequency at which interest is accrued.
<a href="#">AccrualMethod</a>	C-80	Optional	Method used to calculate interest accrual.
<a href="#">DailyAccrual</a>	Open Enum	Optional	Indicates how 'daily' is determined. Valid values include: Actual365, Actual366, Standard360
<a href="#">CapFrequency</a>	Aggregate	Optional	Frequency at which interest is capitalized.
<a href="#">IntRateType</a>	Open Enum	Optional	Used to indicate the type of interest rate. Valid values include: Adjustable, Fixed, Simple, SplitFloat
<a href="#">CompoundInd</a>	Boolean	Optional	Indicates if interest is compounded.
<a href="#">EffDt</a>	DateTime	Optional	Effective Date Time
<a href="#">ExpDt</a>	DateTime	Optional	Expiration Date
<a href="#">TierAmtType</a>	C-80	Optional	Identifies the type of amount used in the tier.

end Aggregate

---

### Interest Rate Type <IntRateType>

Used to indicate the type of interest rate.

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
Adjustable	Adjustable	N
Fixed	Fixed	N
Simple	Simple	N
SplitFloat	Split Floating	N

---

### Internal Funds Allowed Indicator <IntrnlFundsAllwdInd>

Indicates if internal funds can be used to fund the account.

Datatype: **Boolean**

---

### Interbank Transfer Profile <IntXferProf>

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">XferProf</a>	Aggregate	Optional	Transfer Profile Aggregate.
<a href="#">DomXferFeeCurAmt</a>	Aggregate	Optional	Standard fee for a domestic interbank transfer.
<a href="#">IntlXferFeeCurAmt</a>	Aggregate	Optional	Standard fee for an international interbank



			transfer.
<a href="#">USA.ACHProf</a>	Aggregate	Optional	ACH Profile Aggregate. This is for use in the United States.
end Aggregate			

---

### Invalid Pin Attempts <InvalidPinAttempts>

The number of consecutive invalid PIN entry attempts made by the cardholder at a POS, ATM or other device.

Datatype: **Long**

---

### Inventory Add Message <InventoryAddRq>

Inventory Add Message

See the matching response message [InventoryAddRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">InventoryInfo</a>	Aggregate	Required	Inventory Information Aggregate
end Aggregate			

---

### Inventory Add Response <InventoryAddRs>

Inventory Add Response

See the matching request message [InventoryAddRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">InventoryRec</a>	Aggregate	Required	Inventory Record
<a href="#">InventoryStatusRec</a>	Aggregate	Required	Inventory Status Record
end-xor			
end-block			
end Aggregate			

---

**Inventory Delete Request <InventoryDelRq>**

Inventory Delete Request

See the matching response message [InventoryDelRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">InventoryKeys</a>	Aggregate	Required	Inventory Keys Aggregate
end Aggregate			

---

**Inventory Delete Response <InventoryDelRs>**

Inventory Delete Response

See the matching request message [InventoryDelRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">InventoryRec</a>	Aggregate	Required	Inventory Record
<a href="#">InventoryStatusRec</a>	Aggregate	Required	Inventory Status Record
end-xor			
end-block			
end Aggregate			

## Inventory Environment Aggregate <InventoryEnvr>

Inventory Environment Aggregate

Extends: [BaseEnvr](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseEnvr			
<a href="#">CreatedDt</a>	DateTime	Required	Created Date/Time. The date/time the object was created.
<a href="#">CreateRefIdent</a>	NC-36	Optional	An identifier used to uniquely identify the creation of this object to the system that created the object. This will usually be a link to reference information used in creating the object.
<a href="#">ClientCreatedDt</a>	DateTime	Optional	The created date/time as reported by the client. This can vary from the object creation date/time due to time zone differences, communication delays, etc

<a href="#">ClientBusinessDt</a>	DateTime	Optional	The date/time that the client recorded this object for operational purposes. This date/time will often be used to manage the availability of information or funds.
<a href="#">LastUpdateDt</a>	DateTime	Optional	Last update Date/Time. The date/time the object was created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LastUpdateRqUID</a>	UUID	Optional	Last update RqUID. The RqUID from the message that resulted in the object being created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LoginName</a>	C-40	Optional	The login name (or Id) of the individual that authorized this object to be created. This is typically used when the object is created on behalf of its owner by someone who is not normally represented as a Party (i.e., an employee or agent).
<a href="#">PartyKeys</a>	Aggregate	Optional	Reference to the Party that this object is owned by or authorized by.
<a href="#">CardKeys</a>	Aggregate	Optional	This is dependent on Card proposal. Currently this is implemented as the CardLogicalData aggregate.
<a href="#">PassbkKeys</a>	Aggregate	Optional	Currently PassbkAcceptData.
<a href="#">NetworkTrnData</a>	Aggregate	Optional	Network Transaction Information. Identification and location of the terminal from which the message originates.
<a href="#">ServerTerminalSeqNum</a>	NC-36	Optional	Server Terminal Sequence Number. A terminal sequence number generated by the server to identify this object. This number is used in ATM and POS environments to uniquely identify transactions (with terminal name and date) for transaction management.
<a href="#">PointOfServiceData</a>	Aggregate	Optional	The Point of Service Data. This aggregate contains information about the environment in which this message originated.
<a href="#">ClientTerminalSeqNum</a>	NC-36	Optional	Client Terminal Sequence Number. A terminal sequence number generated by the client to identify this object. This number is used in ATM, POS, Branch, Call Center and Teller environments to uniquely identify transactions at the client (with terminal name and date). This number is often required when requesting supporting documentation related to a customer transaction.

end Elements from BaseEnvr
begin Aggregate
end Aggregate

---

### Inventory Identifier <InventoryId>

Inventory Identifier

Datatype: **Identifier**

---

### Inventory Information Aggregate <InventoryInfo>

Inventory Information Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">FIIdent</a>	NC-34	Optional	Financial Institution Identifier
<a href="#">Segmentation</a>	Aggregate	Optional Repeating	Segmentation Aggregate
<a href="#">BranchIdent</a>	NC-22	Optional	Branch Identifier
<a href="#">CampaignIdent</a>	NC-36	Optional	Campaign Identifier
<a href="#">CardDesign</a>	NC-16	Optional	Card Design
<a href="#">OrderVolume</a>	Long	Optional	Order Volume
<a href="#">ReorderLevel</a>	Long	Optional	Reorder Level
<a href="#">SeasonalOrder</a>	Aggregate	Optional Repeating	Seasonal Order Aggregate
<a href="#">Remaining</a>	Long	Optional	Remaining
<a href="#">RecurRule</a>	Aggregate	Optional	Defines a rule for events that recur in a specific defined pattern.
<a href="#">Nickname</a>	C-40	Optional	Nickname
<a href="#">ContactName</a>	C-40	Optional	Contact Name
<a href="#">PostAddr</a>	Aggregate	Optional	Postal Address

		Repeating	
<a href="#">PhoneNum</a>	Aggregate	Optional	Phone Number
end Aggregate			

---

### Inventory Inquiry Request <InventoryInqRq>

Inventory Inquiry Request

See the matching response message [InventoryInqRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">DocCtrlIn</a>	Aggregate	Optional	Document Control Input
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
begin-xor		Optional Repeating	
<a href="#">InventorySel</a>	Aggregate	Required	Inventory Selection Aggregate
<a href="#">RecSelect</a>	lfxPath	Required	Record Select
end-xor			
end Aggregate			

---

### Inventory Inquiry Response <InventoryInqRs>

Inventory Inquiry Response

See the matching request message [InventoryInqRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			

begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">DocCtrlOut</a>	Aggregate	Optional	Document Control Output
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">InventoryRec</a>	Aggregate	Required Repeating	Inventory Record
end-block			
end Aggregate			

---

## Inventory Keys Aggregate <InventoryKeys>

Inventory Keys Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
begin-xor		Required	
<a href="#">InventoryId</a>	Identifier	Required	Inventory Identifier
begin-block		Required	
<a href="#">FIIdent</a>	NC-34	Optional	Financial Institution Identifier
<a href="#">Segmentation</a>	Aggregate	Optional Repeating	Segmentation Aggregate
<a href="#">BranchIdent</a>	NC-22	Optional	Branch Identifier
<a href="#">CampaignIdent</a>	NC-36	Optional	Campaign Identifier
<a href="#">CardDesign</a>	NC-16	Optional	Card Design
end-block			
end-xor			
end Aggregate			

---

## Inventory Modify Request <InventoryModRq>

Inventory Modify Request

See the matching response message [InventoryModRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">InventoryKeys</a>	Aggregate	Required	Inventory Keys Aggregate
begin-block		Required Repeating	
<a href="#">InventoryInfo</a>	Aggregate	Required	Inventory Information Aggregate
begin-xor		Optional Repeating	
<a href="#">DelElements</a>	lfxPath	Required	An lfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to delete. It is an error if one attempts to delete Required fields.
<a href="#">UpdElements</a>	lfxPath	Required	An lfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to update. The new value of the updated element is in the accompanying xxxInfo aggregate.
<a href="#">NewElements</a>	lfxPath	Required	An lfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to add. The new value of the new elements is in the accompanying xxxInfo aggregate.
end-xor			
end-block			
end Aggregate			

---

## Inventory Modify Response <InventoryModRs>

Inventory Modify Response

See the matching request message [InventoryModRq](#)



Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">InventoryRec</a>	Aggregate	Required	Inventory Record
<a href="#">InventoryStatusRec</a>	Aggregate	Required	Inventory Status Record
end-xor			
end-block			
end Aggregate			

---

**Inventory Record <InventoryRec>**

Inventory Record

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">InventoryId</a>	Identifier	Required	Inventory Identifier
<a href="#">InventoryInfo</a>	Aggregate	Required	Inventory Information Aggregate
<a href="#">InventoryEnvr</a>	Aggregate	Optional	Inventory Environment Aggregate
<a href="#">InventoryStatus</a>	Aggregate	Required	Inventory Status Aggregate
end Aggregate			

---

**Inventory Reference Aggregate <InventoryRef>**

## Inventory Reference Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">InventoryKeys</a>	Aggregate	Required	Inventory Keys Aggregate
<a href="#">InventoryRec</a>	Aggregate	Required	Inventory Record
<a href="#">InventoryInfo</a>	Aggregate	Required	Inventory Information Aggregate
end-xor			
end Aggregate			

---

## Inventory Selection Aggregate <InventorySel>

Inventory Selection Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required Repeating	
<a href="#">InventoryKeys</a>	Aggregate	Required	Inventory Keys Aggregate
begin-block		Required	
<a href="#">FIIdent</a>	NC-34	Optional	Financial Institution Identifier
<a href="#">Segmentation</a>	Aggregate	Optional Repeating	Segmentation Aggregate
<a href="#">BranchIdent</a>	NC-22	Optional	Branch Identifier
<a href="#">CampaignIdent</a>	NC-36	Optional	Campaign Identifier
<a href="#">CardDesign</a>	NC-16	Optional	Card Design
end-block			
end-xor			
end Aggregate			

---

## Inventory Status Aggregate <InventoryStatus>

Inventory Status Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">InventoryStatusCode</a>	Open Enum	Required	Inventory Status Code Valid values include: Deleted, Valid
<a href="#">StatusDesc</a>	C-255	Optional	Status Description
<a href="#">EffDt</a>	DateTime	Optional	Effective Date Time
<a href="#">StatusModBy</a>	Open Enum	Optional	Status Modified By Valid values include: BPP, BPPSR, BSP, BPSR, CPP, CPPSR, CSP, CSPSR, Customer, FI, PSP
end Aggregate			

---

## Inventory Status Code <InventoryStatusCode>

Inventory Status Code

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
Valid		N
Deleted		N

---

## Inventory Status Inquiry Request <InventoryStatusInqRq>

Inventory Status Inquiry Request

See the matching response message [InventoryStatusInqRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
begin-xor		Optional Repeating	
<a href="#">InventorySel</a>	Aggregate	Required	Inventory Selection Aggregate
<a href="#">RecSelect</a>	lfxPath	Required	Record Select
end-xor			
end Aggregate			

---

### Inventory Status Inquiry Response <InventoryStatusInqRs>

Inventory Status Inquiry Response

See the matching request message [InventoryStatusInqRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">InventoryStatusRec</a>	Aggregate	Optional Repeating	Inventory Status Record
end-block			
end Aggregate			

---

## Inventory Status Modify Request <InventoryStatusModRq>

Inventory Status Modify Request

See the matching response message [InventoryStatusModRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">InventoryKeys</a>	Aggregate	Required	Inventory Keys Aggregate
<a href="#">InventoryStatus</a>	Aggregate	Required	Inventory Status Aggregate
end Aggregate			

---

## Inventory Status Modify Response <InventoryStatusModRs>

Inventory Status Modify Response

See the matching request message [InventoryStatusModRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">InventoryStatusRec</a>	Aggregate	Required	Inventory Status Record
end-block			
end Aggregate			

---

## Inventory Status Record <InventoryStatusRec>

Inventory Status Record

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">InventoryId</a>	Identifier	Required	Inventory Identifier
<a href="#">InventoryStatus</a>	Aggregate	Required	Inventory Status Aggregate
end Aggregate			

---

## Inventory Item Identifier. <InvItemIdent>

Inventory Item Identifier

Datatype: **NC-36**

---

## Invoice Adjustment <InvoiceAdj>

Invoice Adjustment .

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">InvoiceAdjNum</a>	C-32	Optional	Adjustment Number.
<a href="#">AdjType</a>	Open Enum	Optional	Adjustment Type. This element describes the reason for the adjustment.  Defined values: Return, Damage
<a href="#">CurAmt</a>	Aggregate	Required	Adjustment Currency Amount.
	DateTime		

<a href="#">EffDt</a>		Optional	Adjustment Date.
<a href="#">Desc</a>	C-80	Optional	Adjustment Description. This is often a text representation of <AdjType>.
end Aggregate			

---

### Invoice Adjustment Number <InvoiceAdjNum>

Datatype: **C-32**

---

### Invoice Data <InvoiceData>

Each instance of invoice data provides information about one invoice.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">InvoiceType</a>	Open Enum	Optional	Invoice Type. Defined values: Invoice, CreditMemo
<a href="#">InvoiceNum</a>	C-32	Required	Invoice Number. The client enters this identifier since it does not serve as a database key on the server.
<a href="#">RefData</a>	Aggregate	Optional Repeating	Reference Information. Additional Invoice reference. Used to unique identify an invoice for either country-specific or company-specific system tracking and reconciliation.
<a href="#">TotalCurAmt</a>	Aggregate	Required	Invoice Due Currency Amount.
<a href="#">PaidCurAmt</a>	Aggregate	Optional	Invoice Paid Currency Amount.
<a href="#">BillInvoiceDt</a>	Date	Required	Invoice Date.
<a href="#">Desc</a>	C-80	Optional	Invoice Description.
<a href="#">InvoiceVouchNum</a>	C-80	Optional	Invoice Voucher Number. The invoice recipient's internal voucher number confirming receipt of the goods listed on the invoice.
<a href="#">Fee</a>	Aggregate	Optional	Invoice Fee(s), such as late fees, etc.

		Repeating	
<a href="#">InvoicePremium</a>	Aggregate	Optional	Invoice Premium.
<a href="#">Discount</a>	Aggregate	Optional	Discount Information Aggregate.
<a href="#">TaxData</a>	Aggregate	Optional	Tax Aggregate.
<a href="#">InvoiceAdj</a>	Aggregate	Optional	Adjustment Aggregate.
<a href="#">InvoiceLineItem</a>	Aggregate	Optional Repeating	Invoice Line Item Aggregate.
end Aggregate			

---

### Invoice Line Item <InvoiceLineItem>

Invoice Line Item.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">InvoiceLineItemNum</a>	C-12	Required	Line Item Number
<a href="#">AdjType</a>	Open Enum	Optional	Adjustment Type. This element describes the reason for the adjustment.  Defined values: Return, Damage
<a href="#">CurAmt</a>	Aggregate	Required	Line Item Amount.
<a href="#">Desc</a>	C-80	Optional	Line Item Description.
end Aggregate			

---

### Line Item Number <InvoiceLineItemNum>

Datatype: **C-12**

---



## Invoice Number <InvoiceNum>

The client enters this identifier since it does not serve as a database key on the server.

Datatype: **C-32**

---

## Invoice Premium Amount <InvoicePremium>

Extends: [CurAmt](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from CurAmt			
<a href="#">Amt</a>	Decimal	Optional	Amount.
<a href="#">CurCode</a>	Aggregate	Optional	Currency Code
end Elements from CurAmt			
begin Aggregate			
end Aggregate			

---

## Invoice Receiver <InvoiceReceiver>

The Invoice Receiver Aggregate describes the invoice or credit memo receiver, which is the organization or person who owns the liability of the invoice.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">OrgIdent</a>	Aggregate	Required	Organization Identification
<a href="#">OrgPartyInfo</a>	Aggregate	Optional	Organization variant of PartyInfo
<a href="#">PostAddr</a>	Aggregate	Optional	Invoice Receiver's Postal Address.
end Aggregate			

---

### Invoice Sender <InvoiceSender>

The Invoice/Credit Memo Sender Aggregate describes organization or person who receives the credit for the payment on the invoice.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">OrgIdent</a>	Aggregate	Required	Organization Identification
<a href="#">OrgPartyInfo</a>	Aggregate	Optional	Organization variant of PartyInfo
<a href="#">PostAddr</a>	Aggregate	Optional	Invoice Sender's Postal Address.
<a href="#">AcctPayAcct</a>	Identifier	Optional	Accounts Payable Account identifier. Vendor Account Number assigned by Customer (Payer). This is the payer's Accounts Payable account number for reconciliation.
end Aggregate			

---

### Invoice Type <InvoiceType>

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
Invoice		N
CreditMemo		N

---

### Invoice Voucher Number <InvoiceVouchNum>

The invoice recipient's internal voucher number confirming receipt of the

goods listed on the invoice.

Datatype: **C-80**

---

**ISO 20022 Business Domain <ISOBusinessDomain>**

The ISO 20022 Business Domain to which a message belongs

Datatype: **C-32**

---

**ISO 20022 Message Content <ISOMsgContent>**

The ISO message content is expected to be a fully populated, properly formed ISO 20022 message. It should be in a state that it can be immediately transmitted through channels that expect, and perhaps validate, ISO 20022 messages.

Datatype: **External Aggregate**

---

**ISO 20022 Message Description <ISOMsgDesc>**

The ISO 20022 message description is not a functional component of the message. It is documentary.

Datatype: **C-128**

---

**ISO 20022 Message Long Name <ISOMsgLongName>**

The ISO 20022 message long name is not a functional part of the message. Its usage is optional and generally omitted. The long name provides assurance that implementers are referencing the correct

message when they build solutions.

Datatype: **C-64**

---

**ISO 20022 Message Name <ISOMsgName>**

The ISO 20022 message name consists of a 4 character business domain name a period and a 3 digit number

Datatype: **C-8**

---

**ISO 20022 Message Variant <ISOMsgVariant>**

The ISO 20022 Message Variant is a 3 digit number. For most standard implementations the variant is "001"

Datatype: **C-3**

---

**ISO 20022 Message Version number <ISOMsgVersion>**

The ISO 20022 message version is a 2 digit number.

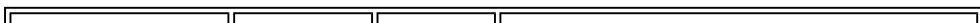
Datatype: **C-2**

---

**Issued Identification <IssuedIdent>**

Issued Identification

Datatype: **Aggregate**



Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">IssuedIdentType</a>	Open Enum	Required	<p>Issued Identification Type</p> <hr/> <p>Valid values include: AlnRegnNb, BEI, BIC, BirthCertificate, BkPtyId, DrvrsLicNb, DUNS, EANGLN, HealthCard, IBEI, IdntyCardNb, MerchantId, Military, MplyrIdNb, NINO, NRABusiness, NRAPersonal, Other, Passbook, PermanentResidence, PrtryId, PsptNb, Retirement, ScIscTyNb, TaxIdNb, USCHU, VoterRegistration</p> <p>Default Value: Other</p>
<a href="#">IssuedIdentValue</a>	C-32	Required	Issued Identification Value
<a href="#">Issuer</a>	NC-32	Optional	Issuer
<a href="#">IssueDt</a>	DateTime	Optional	Issue Date
<a href="#">ExpDt</a>	DateTime	Optional	Expiration Date
<a href="#">Desc</a>	C-80	Optional	Description
<a href="#">IdentImg</a>	Aggregate	Optional	Identification Image
<a href="#">IdentReadMethod</a>	Open Enum	Optional	<p>Identification Read Method</p> <hr/> <p>Valid values include: BarCode, Customer, ICC, MagStripe, Manual, NotSpecified, OCR, TerminalNotUsed</p>
<a href="#">IdentVerifyMethod</a>	Open Enum	Optional	<p>Identification Verify Method</p> <hr/> <p>Valid values include: AddressVerification, Biometrics, CardVerificationValue, Certificate, DigitizedSignature, ICCSignature, None, OfflinePIN, OnlinePIN, PersonalInfoVerification, PictureID, Signature, TelephoneNumberVerification, Unknown</p>
<a href="#">IdentVerifyResults</a>	Open Enum	Optional	<p>Identification Verify Results</p> <hr/> <p>Valid values include: CVVInvalid, CVVValid, InProgress, NotVerified, PINInvalid, PINValid, SignatureInvalid, SignatureValid, Verified</p>
<a href="#">IssuedLoc</a>	C-80	Optional	Issue Location
<a href="#">GovIssuedIdent</a>	Aggregate	Optional	Government Issued Identification
<a href="#">USA.TaxIdCert</a>	Aggregate	Optional	USA Tax Identification Certification
<a href="#">UpDt</a>	Timestamp	Optional	Update Date Time
end Aggregate			

## Issued Identification Type <IssuedIdentType>

Identifier Type based on ISO 20022 definition with additions

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
DrvrsLicNb	Drivers Licence Number	N
BirthCertificate		N
HealthCard		N
Military		N
PermanentResidence		N
AlnRegnNb	Alien Registration Number	N
Retirement		N
IdntyCardNb	Identity Card Number	N
VoterRegistration		N
PsptNb	Passport Number	N
Passbook		N
MplyrIdNb	Employer Identification Number	N
TaxIdNb	Tax Identification Number	N
SclSctyNb	Social Security Number	N
NRAPersonal	Non Resident Alien Personal	N
NINO	National Insurance Number (UK)	N
MerchantId	Id of merchant as is typical of payment systems	N
BIC	Bank Identifier Code (Code allocated to financial institutions as defined in ISO 9362)	N
IBEI	International Business Entity Identifier	N
BEI	Business Entity Identifier	N
EANGLN	European Association for Numbering	N
USCHU	Clearing House Interbank Payments System (CHIPS) Universal Identification	N
DUNS	Data Universal Numbering System	N
BkPtyId	Bank Party Identification (Unique and unambiguous assignment made by a specific bank to identify a relationship as defined between the bank and its client)	N
PrtryId	Proprietary Identification (Unique and unambiguous identifier for an organisation that is allocated by an institution. Contains Identification number and issuer of identification)	N
NRABusiness	Non Resident Alien Business	N
Other		Y

---

**Issued Identification Value <IssuedIdentValue>**

Identification value associated with the identification type

Datatype: **C-32**

---

**Issue Location <IssuedLoc>**

This may be a foreign embassy.

Datatype: **C-80**

---

**Issue Date <IssueDt>**

Issue Date. The date that a specific item was issued (e.g., Issue date for a credit card, passport issue date.). If a card has only month and year issue date, the first day of the month must be specified here. Specific use depends on context.

Datatype: **DateTime**

---

**Issue Location <IssueLoc>**

Issue location of a government document. For passports, this may or may not be the passport country as passports may be issued at foreign locations, such as embassies.

Datatype: **C-80**

---

**Issuer <Issuer>**

The issuer of a government document, proprietary card.

Datatype: **NC-32**

---

### **Issue Reason <IssueReason>**

The reason the card is being produced

Datatype: **Open Enum**

### **Enumerated Values**

Value	Description	Is default
New		N
Reissue		N
Replace		N
Preissue		N
Additional		N
AcceleratedReissue		N
Lost/Stolen		N

---

### **Card Issuer Name <IssuerName>**

Description. The name of the card. eg., Sears, Hudson's, Bay Co.

Datatype: **C-80**

---

### **Issuer Post Script Data <IssuerPostScriptData>**

Issuer 'Post' Script Data (commands issued by the terminal after the final EMV GENERATE AC command).

Datatype: **Aggregate**



Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">IssuerScriptIdent</a>	HexBin-4	Optional	Issuer Script Identification. Uniquely identifies the "post" script command.  Required if the <IssPostScriptData> occurs more than once (multiple "post" script commands are present).
<a href="#">IssuerScriptCmd</a>	HexBin-124	Required Repeating	Issuer Script Command. Contains an Issuer "Post" Script Command to be processed by the ICC card at the terminal. If multiple Issuer "Post" Script Commands are present here, then the terminal must process them in the sequence they are listed here.
end Aggregate			

---

### Issuer Pre Script Data <IssuerPreScriptData>

Issuer 'Pre' Script Data (commands issued by the terminal before the final EMV GENERATE AC command).

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">IssuerScriptIdent</a>	HexBin-4	Optional	Issuer Script Identification. Uniquely identifies the 'pre' script command.  Required if the <IssPreScriptData> occurs more than once (multiple 'pre' script commands are present).
<a href="#">IssuerScriptCmd</a>	HexBin-124	Required Repeating	Issuer Script Command. Contains an Issuer 'Pre' Script Command to be processed by the ICC card at the terminal. If multiple Issuer 'Pre' Script Commands are present here, then the terminal must process them in the sequence they are listed here.
end Aggregate			

---

### **Issuer Script Command <IssuerScriptCmd>**

Issuer Script Command. Contains an Issuer 'Pre' Script Command to be processed by the ICC card at the terminal. If multiple Issuer 'Pre' Script Commands are present here, then the terminal must process them in the sequence they are listed here.

Issuer Script Command. Contains an Issuer 'Post' Script Command to be processed by the ICC card at the terminal. If multiple Issuer 'Post' Script Commands are present here, then the terminal must process them in the sequence they are listed here.

Datatype: **HexBin-124**

---

### **Issuer Script Identification <IssuerScriptIdent>**

Issuer Script Identification. Uniquely identifies the 'pre' script command. Required if the <IssPreScriptData> occurs more than once (multiple 'pre' script commands are present).

Issuer Script Identification. Uniquely identifies the 'post' script command. Required if the <IssPostScriptData> occurs more than once (multiple 'post' script commands are present).

Datatype: **HexBin-4**

---

### **Issuer Script Result <IssuerScriptResult>**

Issuer Script Result. The result of executing the Issuer Script. In the event of an error, this includes the sequence number of the failed Script Command in the order it appears in the issuer script.

Valid values are defined in EMV Integrated Circuit Card Specification for Payment Systems Version 4.1 (Book 4, table 33).

Datatype: **HexBin-1**

---

### **Issuer Script Result Data <IssuerScriptResultData>**

Contains the results of executing Issuer Scripts received in a previous EMVRsData aggregate.  
 Required if the previous <EMVRsData> aggregate contained <IssScriptData>.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">IssuerScriptResult</a>	HexBin-1	Required	Issuer Script Result. The result of executing the Issuer Script. In the event of an error, this includes the sequence number of the failed Script Command in the order it appears in the issuer script.  Valid values are defined in EMV Integrated Circuit Card Specification for Payment Systems Version 4.1 (Book 4, table 33).
<a href="#">IssuerScriptIdent</a>	HexBin-4	Optional	Issuer Script Identification. Uniquely identifies the script command for which this is the response.  Required if multiple scripts send to the terminal were identified by <IssScriptId>'s.
end Aggregate			

---

**Job Title <JobTitle>**

Datatype: **C-32**

---

**Language <Language>**

The value of <Language> follows the definition of language identifiers in IETF RFC 1766. It is in the form of the two letter language code defined by ISO 639, followed by a hyphen, followed by the two letter country code defined by ISO 3166 or a local dialect name of up to 8 characters. Note that RFC 1766 states that values for <Language> are case insensitive.

Datatype: **NC-17**

---

**Last Contact Date <LastContactDt>**

Last time Party made contact with FI or FI contacted Party.

Datatype: **DateTime**

---

**Last Deposit Amount <LastDepCurAmt>**

Extends: [CurAmt](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from CurAmt			
<a href="#">Amt</a>	Decimal	Optional	Amount.
<a href="#">CurCode</a>	Aggregate	Optional	Currency Code
end Elements from CurAmt			
begin Aggregate			
end Aggregate			

---

**Last Occurance Date <LastOccuranceDt>**

Date of last (most recent) occurrence that affected the summary information

Datatype: **DateTime**

---

**Last Occurance Indicator <LastOccurInd>**

Last (most recent) occurrence indicator. If true, the last occurrence information for the given amount type is returned.

Datatype: **Boolean**

---

### Last Payment Amount <LastPmtCurAmt>

Extends: [CurAmt](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from CurAmt			
<a href="#">Amt</a>	Decimal	Optional	Amount.
<a href="#">CurCode</a>	Aggregate	Optional	Currency Code
end Elements from CurAmt			
begin Aggregate			
end Aggregate			

---

### Last Payment Date <LastPmtDt>

Last Payment Date.

Datatype: **Date**

---

### Last Privacy Note Date <LastPrivacyNoteDt>

Last time a Privacy Notice was sent to the Party.

Datatype: **Date**

---

**Last Review Date <LastReviewDt>**

Date the hold was last reviewed.

Datatype: **Date**

---

**Last Transaction Amount <LastTrnAmt>**

Last Transaction Amount

Extends: [CurAmt](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from CurAmt			
<a href="#">Amt</a>	Decimal	Optional	Amount.
<a href="#">CurCode</a>	Aggregate	Optional	Currency Code
end Elements from CurAmt			
begin Aggregate			
end Aggregate			

---

**Last Transaction Date <LastTrnDt>**

Last Transaction Date.

Datatype: **Date**

---

**Last Transaction Merchant City <LastTrnMerchCity>**

City of the merchant of the last known card use.

Datatype: **C-32**

---

**Last Transaction Merchant Name <LastTrnMerchName>**

Name of the merchant of the last known card use.

Datatype: **C-40**

---

**Last Update Date/Time. <LastUpdateDt>**

The date/time the object was created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).

Datatype: **DateTime**

---

**Last update RqUID <LastUpdateRqUID>**

The RqUID from the message that resulted in the object being created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).

Datatype: **UUID**

---

**Last Year Insurance Paid Amount <LastYrInsPaidCurAmt>**

Last Year Insurance Paid Amount. Often used in the Mortgage industry.

Extends: [CurAmt](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from CurAmt			
<a href="#">Amt</a>	Decimal	Optional	Amount.
<a href="#">CurCode</a>	Aggregate	Optional	Currency Code
end Elements from CurAmt			
begin Aggregate			
end Aggregate			

---

**Last Year Tax Paid Amount <LastYrTaxPaidCurAmt>**

Extends: [CurAmt](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from CurAmt			
<a href="#">Amt</a>	Decimal	Optional	Amount.
<a href="#">CurCode</a>	Aggregate	Optional	Currency Code
end Elements from CurAmt			
begin Aggregate			
end Aggregate			

---

**Legal Form <LegalForm>**

Locale-specific legal form

Datatype: **Open Enum**

**Enumerated Values**

Value	Description	Is default



PublicLimitedCompany		N
PrivateLimitedCompany		N
SoleTraders		N
Partnership		N
LimitedLiabilityPartnership		N
Club		N
Society		N

---

**Legal Name <LegalName>**

Legal Name.

Datatype: **C-96**

---

**Legal Name Indicator <LegalNameInd>**

Legal Name Indicator. Indicates whether this PersonName should be used in legally binding documents. This indicator must be set to True for at least one and at most one PersonName for each occurrence of PersonData.

Datatype: **Boolean**

---

**Legal Reporting Code <LegalRptCode>**

Legal reporting country specific code given by the central bank. Example:  
T015L-LVAWU

Datatype: **C-36**

---

**Limit Amount <LimitAmt>**

Indicates maximum or minimum limit based on usage.

Extends: [CurAmt](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from CurAmt			
<a href="#">Amt</a>	Decimal	Optional	Amount.
<a href="#">CurCode</a>	Aggregate	Optional	Currency Code
end Elements from CurAmt			
begin Aggregate			
end Aggregate			

---

### Limit Count <LimitCount>

Limit Count

Datatype: **Long**

---

### Limit Position <LimitPosition>

Limit Position. This element specifies the start location of the selected transaction records with only two possible values: Top or Bottom

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Top	Top specifies the first records from the transaction set should be selected	Y
Bottom	Bottom specifies that the last records from the transaction set should be selected.	N

---

**Limit Type <LimitType>**

Limit Amount Type. Indicates the type of limit amount that applies.

Datatype: **Open Enum**

**Enumerated Values**

Value	Description	Is default
Min		N
Max		Y
DailyMin		N
DailyMax		N
WeeklyMin		N
WeeklyMax		N
MonthlyMin		N
MonthlyMax		N

---

**Locator <Locator>**

Information necessary to establish contact.

Extended By: [Email](#), [PhoneNum](#), [PostAddr](#)

Datatype: **Abstract Aggregate**

Tag	Type	Usage	Description/Context notes
	begin Aggregate		
	end Aggregate		

---

**Lockbox Account Identifier <LockboxAcctIdent>**

Lockbox Account Identifier. Assigned by FI to identify lockbox to customer, e.g., PO Box number at post office

Datatype: **Identifier**

---

### Lockbox Deposit Identifier <LockboxDepldent>

A unique identifier assigned to a specific lockbox where deposits are collected.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">LockboxAcctIdent</a>	Identifier	Required	Lockbox Account Identifier. Assigned by FI to identify lockbox to customer, i.e., PO Box number at post office
<a href="#">AcctKeys</a>	Aggregate	Optional	Deposit Account Id Aggregate. Deposit account for lockbox transactions.
end Aggregate			

---

### Lockbox URL <LockboxURL>

URL containing lockbox remittance information.

Datatype: **URL**

---

### Credit Limit <LOCLimit>

The credit limit set by the financial institution for the customer's line of credit.

Extends: [CurAmt](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from CurAmt			
<a href="#">Amt</a>	Decimal	Optional	Amount.
end Elements from CurAmt			

<a href="#">CurCode</a>	Aggregate	Optional	Currency Code
end Elements from CurAmt			
begin Aggregate			
end Aggregate			

---

### Line of Credit Loan Data Aggregate <LOCLoanData>

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">LOCLimit</a>	Aggregate	Optional	LOC Limit -- The maximum authorized amount for the line of credit.
<a href="#">MinPmt</a>	Aggregate	Optional	Minimum Payment Amount.
<a href="#">ExpDt</a>	DateTime	Optional	Expiration Date. If omitted, the LOC is open ended.
end Aggregate			

---

### Lodging Addenda <LodgingAddenda>

detailed information about lodging accommodations.

Extends: [CardAddenda](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from CardAddenda			
end Elements from CardAddenda			
begin Aggregate			
<a href="#">Carrier</a>	C-3	Optional	Carrier
<a href="#">FlightNumber</a>	C-5	Optional	Flight Number
<a href="#">CSPhoneNum</a>	Phone Number	Optional	Card (customer) service phone number
	C-40		

<a href="#">Name</a>		Optional	Name
<a href="#">GuestNumber</a>	C-25	Optional	Guest Number
<a href="#">ArrivalDt</a>	Date	Optional	Arrival Date
<a href="#">ArrivalTime</a>	Time	Optional	Arrival Time
<a href="#">DepartureDt</a>	Date	Optional	Departure Date
<a href="#">DepartureTime</a>	Time	Optional	Departure Time
<a href="#">FolioNumber</a>	C-25	Optional	Folio Number
<a href="#">PropertyPhoneNumber</a>	Phone Number	Optional	Property Phone Number
<a href="#">BillingAdjustmentInd</a>	Boolean	Optional	Billing Adjustment Indicator
<a href="#">TaxExemptInd</a>	Boolean	Optional	Tax Exempt Indicator
<a href="#">NoShowInd</a>	Boolean	Optional	No Show Indicator
<a href="#">RoomNights</a>	Long	Optional	Room Nights
<a href="#">LodgingCharge</a>	Aggregate	Optional Repeating	Lodging Charge
end Aggregate			

## Lodging Charge <LodgingCharge>

The charges associated with a lodging transaction.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">LodgingChargeType</a>	Open Enum	Required	Lodging Charge Type  Valid values include: AudioVisual, Banquet, BillingAdjustment, BusinessCenter, CashAdvance, ChargedOnCard, ConferenceRoom, EarlyDeparture, GiftShop, Gratuity, HealthClub, InternetAccess, Laundry, LoungeBar, MiniBar, Movie, NonRoom, NonRoomTax, Other, Phone, PrepaidExpense, Restaurant, RoomRate1, RoomRate2, RoomRate3, RoomService, Tax, Transaction, Transportation, Valet
<a href="#">CurAmt</a>	Aggregate	Required	Currency Amount
<a href="#">LodgingNights</a>	Long	Optional	Lodging Nights
end Aggregate			

end Aggregate

## Lodging Charge Type <LodgingChargeType>

Lodging Charge Type. Used to identify the type of lodging charge.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Transaction		N
NonRoom		N
HealthClub		N
BusinessCenter		N
Movie		N
Valet		N
CashAdvance		N
NonRoomTax		N
PrepaidExpense		N
Other		N
Laundry		N
GiftShop		N
MiniBar		N
Restaurant		N
Phone		N
Tax		N
RoomRate1		N
RoomRate2		N
RoomRate3		N
BillingAdjustment		N
EarlyDeparture		N
InternetAccess		N
Banquet		N
AudioVisual		N
ConferenceRoom		N
Gratuity		N
Transportation		N
LoungeBar		N
RoomService		N
ChargedOnCard		N

---

**Lodging Nights <LodgingNights>**

The number of nights of lodging at the related room rate amount.

Datatype: **Long**

---

**Login Authority <LoginAuthority>**

Login Authority

Datatype: **C-40**

---

**Login Indetifier <LoginIdent>**

Login Indetifier

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">LoginAuthority</a>	C-40	Optional	Login Authority
<a href="#">LoginName</a>	C-40	Required	Login Name
end Aggregate			

---

**Login Name <LoginName>**

The subject's login name



Datatype: **C-40**

---

### **Biller Logo <Logo>**

Biller Logo

Extends: [Binary](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from Binary			
<a href="#">ContentType</a>	Open Enum	Optional	Specified in IETF RFC 2046.
<a href="#">BinLength</a>	Long	Required	Identifies the size of the binary data in number of bytes.
<a href="#">BinData</a>	Raw Binary Data	Required	Binary data.
end Elements from Binary			
begin Aggregate			
end Aggregate			

---

### **Biller Logo URL <LogoURL>**

The URL of the biller's logo.

Datatype: **URL**

---

### **Generic Text <LongText>**

Generic Text.

Datatype: **C-unbound**

---

**Loss Code <LossCd>**

Code indicating the type or nature of the incident. Used to obtain incident processing parameters.

Datatype: **C-20**

---

**Loss Date Time <LossDtTm>**

The Date and Time the incident occurred.

Datatype: **DateTime**

---

**Lost Stolen Incident <LostStolenIncident>**

Lost/Stolen Incident capture and display data

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">LossCd</a>	C-20	Optional	Loss Code
<a href="#">Circumstance</a>	C-20	Optional	Circumstance
<a href="#">Source</a>	C-32	Optional	Source
<a href="#">City</a>	C-32	Optional	City
<a href="#">StateProv</a>	C-32	Optional	State or Province
<a href="#">CountryCode</a>	Aggregate	Optional	Country Code
<a href="#">LossDtTm</a>	DateTime	Optional	Loss Date Time
<a href="#">PostingControlDt</a>	DateTime	Optional	Posting Control Date
<a href="#">ReportedByName</a>	C-40	Optional	Reported By Name
<a href="#">ReportByRelationship</a>	C-32	Optional	Report By Relationship
	DateTime		

<a href="#">ReportedDtTm</a>		Optional	Reported Date Time
<a href="#">Situation</a>	C-20	Optional	Situation
<a href="#">Arrest</a>	Boolean	Optional	Arrest
<a href="#">PoliceReportNumber</a>	C-20	Optional	Police Report Number
<a href="#">PoliceReportStat</a>	Open Enum	Optional	Police Report Status  Valid values include: NoInformationWasProvided, Received, Request, Sent
<a href="#">DeclarationStat</a>	Open Enum	Optional	Declaration Status  Valid values include: NoInformationRequired, Received, Requested
<a href="#">BinICA</a>	C-12	Optional	Bin/ICA
<a href="#">LastTrnAmt</a>	Aggregate	Optional	Last Transaction Amount
<a href="#">LastTrnDt</a>	Date	Optional	Last Transaction Date
<a href="#">LastTrnMerchName</a>	C-40	Optional	Last Transaction Merchant Name
<a href="#">LastTrnMerchCity</a>	C-32	Optional	Last Transaction Merchant City
<a href="#">CreateFraudAcct</a>	Boolean	Optional	Create Fraud Account
<a href="#">ReplaceCardRequest</a>	Boolean	Optional	Replace Card Request
<a href="#">EmergencyCardRequest</a>	Boolean	Optional	Emergency Card Request
<a href="#">RepCardNum</a>	NC-32	Optional	Replacement Card Number
<a href="#">CardType</a>	Open Enum	Optional	Card Type  Valid values include: ATM, Credit, Debit, Identification, Loyalty, Multifunction, Prepaid  Default Value: Debit
<a href="#">CardDesign</a>	NC-16	Optional	Card Design
<a href="#">RetainPin</a>	Boolean	Optional	Retain Pin
<a href="#">FeeOvrd</a>	Boolean	Optional	Fee Override
<a href="#">FeeOvrdAmt</a>	Aggregate	Optional	Fee Override Amount
<a href="#">SpecialHandling</a>	Open Enum	Optional	Special Handling  Valid values include: ClientOverride
<a href="#">CardSigned</a>	Boolean	Optional	Card Signed
<a href="#">TaxIDLost</a>	Boolean	Optional	Tax ID Lost
<a href="#">DriversLicenseLost</a>	Boolean	Optional	Drivers License Lost
<a href="#">FirstFraudTrnDt</a>	Date Time	Optional	First Fraud Transaction Date
<a href="#">FraudAcctIdent</a>	NC-36	Optional	Fraud Account Identification
end Aggregate			

---

### Low Amount <LowCurAmt>

Specifies the lowest amount at which an interest rate applies or the low end of a search with a currency selection range criteria.

Extends: [CurAmt](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from CurAmt			
<a href="#">Amt</a>	Decimal	Optional	Amount.
<a href="#">CurCode</a>	Aggregate	Optional	Currency Code
end Elements from CurAmt			
begin Aggregate			
end Aggregate			

---

### Message Authentication Code Value <MacValue>

The Message Authentication Code value. Calculated using an encryption key shared by both endpoints according to a previously agreed algorithm such as ANSI X9.9/FIPS113 or ANSI X9.71/FIPS198.\*

Datatype: **HexBin-unbound**

---

### Message Authentication Code Variant Value <MacVariant>

The Message Authentication Variant value. This field is used to ensure that MAC values will not be repeatable. When used, this value will be generated randomly before the MacValue is calculated. Mac variants cannot be retransmitted.

Datatype: **HexBin-8**

---

**Track 1 Data <MagData1>**

Track 1 Data.

Datatype: **NC-79**

---

**Track 2 Data <MagData2>**

Track 2 Data.

Datatype: **NC-40**

---

**Track 3 Data <MagData3>**

Track 3 Data

Datatype: **NC-107**

---

**ManualMicr <ManualMicr>**

Use this to indicate the MICR has been keyed in manually. True indicates the MICR has been manually keyed.

Datatype: **Boolean**

---

### Margin <Margin>

Percentage applied to BasedOnValue to calculate interest rate. For example, the BasedOnValue is the Prime rate, a percentage is added to/subtracted from the prime rate.

Datatype: **Decimal**

---

### Marital Status <MaritalStat>

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Married		N
Single		N
Divorced		N
Widow		N

---

### Married Name <MarriedName>

Married Name. The spouse's name adopted by the person.

Datatype: **C-40**

---

### Matched Record Count <MatchedRecCount>

Total number of records matching the selection criteria.

Datatype: **Long**

---

**Maternal Name <MaternalName>**

Maternal Name. The name of the person inherited from the mother.

Datatype: **C-40**

---

**Maturity Date <MaturityDt>**

Identifies maturity date for certificate of deposit or loan.

Datatype: **Date**

---

**Maximum Number of Password Characters <Max>**

Datatype: **Long**

---

**MaxCreditLimitPct <MaxCreditLimitPct>**

The percentage of the parent credit limit that the sum of all child credit limits cannot exceed.

Datatype: **Decimal**

---

**Maximum Currency Amount <MaxCurAmt>**

Maximum amount that may be transferred from the account, if applicable.

Extends: [CurAmt](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from CurAmt			
<a href="#">Amt</a>	Decimal	Optional	Amount.
<a href="#">CurCode</a>	Aggregate	Optional	Currency Code
end Elements from CurAmt			
begin Aggregate			
end Aggregate			

---

### **Maximum Free Distance <MaxFreeDistance>**

The free distance allowed to a customer for the duration of the vehicle rental agreement.

Datatype: **Long**

---

### **Maximum Records Limit <MaxRecLimit>**

Maximum records requested. This is the maximum number of records that the server should add to the result set which is available to satisfy this request. This result set may be available to satisfy several related inquiry requests.

Default value is unbounded (no limit).

Note that this number represents the maximum number of records that the client wants to process. The actual number of records could be less than this, depending on the number of available records matching the selection criteria.

Datatype: **Long**



---

### Merchant Category Code <MCC>

Merchant Category Code

Datatype: **C-4**

---

### MCC Limit <MCCLimit>

A code used to access a list of parameters that restricts the card usage based on a range of MCC codes and transaction limits.

Datatype: **C-10**

---

### Measure Unit <MeasureUnit>

Measuring unit. Values are built by appending English names of base and derived units defined in the standards ISO 31 "Quantities and units" and ISO 1000 "SI units and recommendations for the use of their multiple and of certain other units" (see also "ISO Standards Handbook – Quantities and units").

Each word's first letter will be capitalized.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Second		N

---

### Media Account Add Message <MediaAcctAddRq>

Media Account Add Message

See the matching response message [MediaAcctAddRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">MediaAcctInfo</a>	Aggregate	Required	Media Account Information Aggregate
end Aggregate			

---

### Media Account Add Response <MediaAcctAddRs>

Media Account Add Response

See the matching request message [MediaAcctAddRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">MediaAcctRec</a>	Aggregate	Required	Media Account Record
<a href="#">MediaAcctStatusRec</a>	Aggregate	Required	Media Account Status Record
end-xor			
end-block			
end Aggregate			

---

### Media Account Audit Request <MediaAcctAudRq>

## Media Account Audit Request

See the matching response message [MediaAcctAudRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
<a href="#">DtRange</a>	Aggregate	Optional	Date Range
<a href="#">Method</a>	Closed Enum	Optional Repeating	Method Valid values are limited to: Add, Advise, AuthMod, Can, Del, Mod, StatusMod
<a href="#">MediaAcctKeys</a>	Aggregate	Optional Repeating	Media Account Keys Aggregate
end Aggregate			

---

## Media Account Audit Response <MediaAcctAudRs>

Media Account Audit Response

See the matching request message [MediaAcctAudRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">MediaAcctRsMsg</a>	Aggregate	Optional Repeating	Media Account Response Messages Aggregate

end-block

end Aggregate

## Media Account Environment Aggregate <MediaAcctEnvr>

Media Account Environment Aggregate

Extends: [BaseEnvr](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseEnvr			
<a href="#">CreatedDt</a>	DateTime	Required	Created Date/Time. The date/time the object was created.
<a href="#">CreateRefIdent</a>	NC-36	Optional	An identifier used to uniquely identify the creation of this object to the system that created the object. This will usually be a link to reference information used in creating the object.
<a href="#">ClientCreateDt</a>	DateTime	Optional	The created date/time as reported by the client. This can vary from the object creation date/time due to time zone differences, communication delays, etc
<a href="#">ClientBusinessDt</a>	DateTime	Optional	The date/time that the client recorded this object for operational purposes. This date/time will often be used to manage the availability of information or funds.
<a href="#">LastUpdateDt</a>	DateTime	Optional	Last update Date/Time. The date/time the object was created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LastUpdateRqUID</a>	UUID	Optional	Last update RqUID. The RqUID from the message that resulted in th object being created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LoginName</a>	C-40	Optional	The login name (or Id) of the individual that authorized this object to be created. This is typically used when the object is created on behalf of its owner by someone who is not normally represented as a Party (i.e., an employee or agent).

<a href="#">PartyKeys</a>	Aggregate	Optional	Reference to the Party that this object is owned by or authorized by.
<a href="#">CardKeys</a>	Aggregate	Optional	This is dependent on Card proposal. Currently this is implemented as the CardLogicalData aggregate.
<a href="#">PassbkKeys</a>	Aggregate	Optional	Currently PassbkAcceptData.
<a href="#">NetworkTrnData</a>	Aggregate	Optional	Network Transaction Information. Identification and location of the terminal from which the message originates.
<a href="#">ServerTerminalSeqNum</a>	NC-36	Optional	Server Terminal Sequence Number. A terminal sequence number generated by the server to identify this object. This number is used in ATM and POS environments to uniquely identify transactions (with terminal name and date) for transaction management.
<a href="#">PointOfServiceData</a>	Aggregate	Optional	The Point of Service Data. This aggregate contains information about the environment in which this message originated.
<a href="#">ClientTerminalSeqNum</a>	NC-36	Optional	Client Terminal Sequence Number. A terminal sequence number generated by the client to identify this object. This number is used in ATM, POS, Branch, Call Center and Teller environments to uniquely identify transactions at the client (with terminal name and date). This number is often required when requesting supporting documentation related to a customer transaction.
end Elements from BaseEnvr			
begin Aggregate			
end Aggregate			

---

### Media Account Identifier <MediaAcctId>

This identifier can refer to a physical container, a logical grouping of containers, or the complete set of valuable media at a client device.

Datatype: **Identifier**

---

### Media Account Identifier <MediaAcctIdent>

A unique business key identifying the MediaAcct.

This can be a Terminal Identifier, if the media account represents a terminal or a cassette identifier, if the media account represents a cassette or similar business key.

Datatype: **NC-36**

---

### Media Account Information Aggregate <MediaAcctInfo>

Media Account Information Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">MediaAcctIdent</a>	NC-36	Optional	Media Account Identifier
<a href="#">MediaAcctType</a>	Open Enum	Required	Media Account Type  Valid values include: ATM, Cassette, Container, Safe, TellerDrawer, TellerRecycler
<a href="#">MediaItem</a>	Aggregate	Optional Repeating	Media Item
<a href="#">CurAmt</a>	Aggregate	Optional	Currency Amount
<a href="#">Count</a>	Long	Optional	Count
end Aggregate			

---

### Media Account Inquiry Request <MediaAcctInqRq>

Media Account Inquiry Request

See the matching response message [MediaAcctInqRs](#)

Datatype: **Aggregate**

---

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">DocCtrlIn</a>	Aggregate	Optional	Document Control Input
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
begin-xor		Optional Repeating	
<a href="#">MediaAcctSel</a>	Aggregate	Required	Media Account Selection Aggregate
<a href="#">RecSelect</a>	IfxPath	Required	Record Select
end-xor			
end Aggregate			

---

## Media Account Inquiry Response <MediaAcctInqRs>

Media Account Inquiry Response

See the matching request message [MediaAcctInqRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">DocCtrlOut</a>	Aggregate	Optional	Document Control Output
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">MediaAcctRec</a>	Aggregate	Required Repeating	Media Account Record
end-block			
end Aggregate			

---

## Media Account Keys Aggregate <MediaAcctKeys>

Media Account Keys Aggregate

Extends: [BaseKeys](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseKeys			
end Elements from BaseKeys			
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
begin-xor		Required	
<a href="#">MediaAcctId</a>	Identifier	Required	Media Account Identifier
<a href="#">MediaAcctIdent</a>	NC-36	Required	Media Account Identifier
end-xor			
end Aggregate			

---

## Media Account Modify Request <MediaAcctModRq>

Media Account Modify Request

See the matching response message [MediaAcctModRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">MediaAcctKeys</a>	Aggregate	Required	Media Account Keys Aggregate
begin-block		Required Repeating	
<a href="#">MediaAcctInfo</a>	Aggregate	Required	Media Account Information Aggregate
begin-xor		Optional Repeating	
	lfxPath		



<a href="#">DelElements</a>		Required	An lfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to delete. It is an error if one attempts to delete Required fields.
<a href="#">UpdElements</a>	lfxPath	Required	An lfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to update. The new value of the updated element is in the accompanying xxxInfo aggregate.
<a href="#">NewElements</a>	lfxPath	Required	An lfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to add. The new value of the new elements is in the accompanying xxxInfo aggregate.
end-xor			
end-block			
end Aggregate			

## Media Account Modify Response <MediaAcctModRs>

Media Account Modify Response

See the matching request message [MediaAcctModRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">MediaAcctRec</a>	Aggregate	Required	Media Account Record
<a href="#">MediaAcctStatusRec</a>	Aggregate	Required	Media Account Status Record
end-xor			
end-block			
end Aggregate			

---

## Media Account Record <MediaAcctRec>

Media Account Record

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">MediaAcctId</a>	Identifier	Required	Media Account Identifier
<a href="#">MediaAcctInfo</a>	Aggregate	Required	Media Account Information Aggregate
<a href="#">MediaAcctEnvr</a>	Aggregate	Optional	Media Account Environment Aggregate
<a href="#">MediaAcctStatus</a>	Aggregate	Required	Media Account Status Aggregate
end Aggregate			

---

## Media Account Reference Aggregate <MediaAcctRef>

Media Account Reference Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">MediaAcctKeys</a>	Aggregate	Required	Media Account Keys Aggregate
<a href="#">MediaAcctRec</a>	Aggregate	Required	Media Account Record
<a href="#">MediaAcctInfo</a>	Aggregate	Required	Media Account Information Aggregate
end-xor			
end Aggregate			

---

## Media Account Response Messages Aggregate <MediaAcctRsMsg>

## Media Account Response Messages Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">MsgRecDt</a>	Timestamp	Optional	Audit Record Creation Date
begin-xor		Required	
<a href="#">MediaAcctAddRs</a>	Aggregate	Required	Media Account Add Response
<a href="#">MediaAcctModRs</a>	Aggregate	Required	Media Account Modify Response
<a href="#">MediaAcctInqRs</a>	Aggregate	Required	Media Account Inquiry Response
<a href="#">MediaAcctStatusModRs</a>	Aggregate	Required	Media Account Status Modify Response
end-xor			
end Aggregate			

---

## Media Account Selection Aggregate <MediaAcctSel>

Media Account Selection Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">MediaAcctKeys</a>	Aggregate	Required	Media Account Keys Aggregate
end-xor			
end Aggregate			

---

## Media Account Status Aggregate <MediaAcctStatus>

Media Account Status Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">MediaAcctStatusCode</a>	Open Enum	Required	Media Account Status Code Valid values include: Deleted, Valid
<a href="#">StatusDesc</a>	C-255	Optional	Status Description
<a href="#">EffDt</a>	DateTime	Optional	Effective Date Time
<a href="#">StatusModBy</a>	Open Enum	Optional	Status Modified By Valid values include: BPP, BPPSR, BSP, BPPSR, CPP, CPPSR, CSP, C PSPR, Customer, FI, PSP
end Aggregate			

---

### Media Account Status Code <MediaAcctStatusCode>

Media Account Status Code

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
Valid		N
Deleted		N

---

### Media Account Status Modify Request <MediaAcctStatusModRq>

Media Account Status Modify Request

See the matching response message [MediaAcctStatusModRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			

<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">MediaAcctKeys</a>	Aggregate	Required	Media Account Keys Aggregate
<a href="#">MediaAcctStatus</a>	Aggregate	Required	Media Account Status Aggregate
end Aggregate			

---

### Media Account Status Modify Response <MediaAcctStatusModRs>

Media Account Status Modify Response

See the matching request message [MediaAcctStatusModRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">MediaAcctStatusRec</a>	Aggregate	Required	Media Account Status Record
end-block			
end Aggregate			

---

### Media Account Status Record <MediaAcctStatusRec>

Media Account Status Record

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">MediaAcctId</a>	Identifier	Required	Media Account Identifier

<a href="#">MediaAcctStatus</a>	Aggregate	Required	Media Account Status Aggregate
end Aggregate			

---

### Media Account Sync Request <MediaAcctSyncRq>

Media Account Sync Request

See the matching response message [MediaAcctSyncRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
<a href="#">MediaAcctKeys</a>	Aggregate	Optional Repeating	Media Account Keys Aggregate
end Aggregate			

---

### Media Account Sync Response <MediaAcctSyncRs>

Media Account Sync Response

See the matching request message [MediaAcctSyncRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			

begin-block		Optional	required if message is successful
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">MediaAcctRsMsg</a>	Aggregate	Optional Repeating	Media Account Response Messages Aggregate
end-block			
end Aggregate			

---

### Media Account Transaction Add Message <MediaAcctTrnAddRq>

Media Account Transaction Add Message

See the matching response message [MediaAcctTrnAddRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">MediaAcctTrnInfo</a>	Aggregate	Required	Media Account Transaction Information Aggregate
end Aggregate			

---

### Media Account Transaction Add Response <MediaAcctTrnAddRs>

Media Account Transaction Add Response

See the matching request message [MediaAcctTrnAddRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
	Aggregate		

<a href="#">MsgRsHdr</a>		Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">MediaAcctTrnRec</a>	Aggregate	Required	Media Account Transaction Record
<a href="#">MediaAcctTrnStatusRec</a>	Aggregate	Required	Media Account Transaction Status Record
end-xor			
end-block			
end Aggregate			

---

### Media Account Transaction Audit Request <MediaAcctTrnAudRq>

Media Account Transaction Audit Request

See the matching response message [MediaAcctTrnAudRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
<a href="#">DtRange</a>	Aggregate	Optional	Date Range
<a href="#">Method</a>	Closed Enum	Optional Repeating	Method Valid values are limited to: Add, Advise, AuthMod, Can, Del, Mod, StatusMod
<a href="#">MediaAcctTrnKeys</a>	Aggregate	Optional Repeating	Media Account Transaction Keys Aggregate
end Aggregate			

---

### Media Account Transaction Audit Response <MediaAcctTrnAudRs>

Media Account Transaction Audit Response

See the matching request message [MediaAcctTrnAudRq](#)



Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">MediaAcctTrnRsMsg</a>	Aggregate	Optional Repeating	Media Account Transaction Response Messages Aggregate
end-block			
end Aggregate			

---

**Media Account Transaction Environment Aggregate**  
**<MediaAcctTrnEnvr>**

Media Account Transaction Environment Aggregate

Extends: [BaseEnvr](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseEnvr			
<a href="#">CreatedDt</a>	DateTime	Required	Created Date/Time. The date/time the object was created.
<a href="#">CreateRefIdent</a>	NC-36	Optional	An identifier used to uniquely identify the creation of this object to the system that created the object. This will usually be a link to reference information used in creating the object.
<a href="#">ClientCreateDt</a>	DateTime	Optional	The created date/time as reported by the client. This can vary from the object creation date/time due to time zone differences, communication delays, etc
<a href="#">ClientBusinessDt</a>	DateTime	Optional	The date/time that the client recorded this object for operational purposes. This date/time will often be used to

			manage the availability of information or funds.
<a href="#">LastUpdateDt</a>	DateTime	Optional	Last update Date/Time. The date/time the object was created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LastUpdateRqUID</a>	UUID	Optional	Last update RqUID. The RqUID from the message that resulted in th object being created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LoginName</a>	C-40	Optional	The login name (or Id) of the individual that authorized this object to be created. This is typically used when the object is created on behalf of its owner by someone who is not normally represented as a Party (i.e., an employee or agent).
<a href="#">PartyKeys</a>	Aggregate	Optional	Reference to the Party that this object is owned by or authorized by.
<a href="#">CardKeys</a>	Aggregate	Optional	This is dependent on Card proposal. Currently this is implemented as the CardLogicalData aggregate.
<a href="#">PassbkKeys</a>	Aggregate	Optional	Currently PassbkAcceptData.
<a href="#">NetworkTrnData</a>	Aggregate	Optional	Network Transaction Information. Identification and location of the terminal from which the message originates.
<a href="#">ServerTerminalSeqNum</a>	NC-36	Optional	Server Terminal Sequence Number. A terminal sequence number generated by the server to identify this object. This number is used in ATM and POS environments to uniquely identify transactions (with terminal name and date) for transaction management.
<a href="#">PointOfServiceData</a>	Aggregate	Optional	The Point of Service Data. This aggregate contains information about the environment in which this message originated.
<a href="#">ClientTerminalSeqNum</a>	NC-36	Optional	Client Terminal Sequence Number. A terminal sequence number generated by the client to identify this object. This number is used in ATM, POS, Branch, Call Center and Teller environments to uniquely identify transactions at the client (with terminal name and date). This number is often required when requesting supporting documentation related to a customer transaction.
end Elements from BaseEnvr			

begin Aggregate
end Aggregate

---

### Media Account Transaction Identifier <MediaAcctTrnId>

Media Account Transaction Identifier

Datatype: **Identifier**

---

### Media Account Transaction Information Aggregate <MediaAcctTrnInfo>

Media Account Transaction Information Aggregate

Note: The TrnRef can be used for inquiries or to reference an existing financial transaction. The TrnRqUID can be used when the associated transaction is not yet created or has been rejected.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">MediaAcctTrnType</a>	Open Enum	Required	Media Account Transaction Type  Valid values include: BalanceSet, Deposit, Dispense, ReplenishAdd, ReplenishRemove, ReplenishSet
<a href="#">MediaAcctKeys</a>	Aggregate	Required	Media Account Keys Aggregate
<a href="#">CurAmt</a>	Aggregate	Optional	Currency Amount
<a href="#">ExchangeRate</a>	Aggregate	Optional	Exchange Rate
<a href="#">TrnRef</a>	Abstract Aggregate	Optional Repeating	Transaction Reference  <b>Valid Aggregates are:</b> AcctTrnRef CreditRef DebitRef
<a href="#">TrnRqUID</a>	UUID	Optional	Transaction RqUID
<a href="#">MediaItem</a>	Aggregate	Required Repeating	Media Item

end Aggregate

---

### Media Account Transaction Inquiry Request <MediaAcctTrnInqRq>

Media Account Transaction Inquiry Request

See the matching response message [MediaAcctTrnInqRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">DocCtrlIn</a>	Aggregate	Optional	Document Control Input
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
begin-xor		Optional Repeating	
<a href="#">MediaAcctTrnSel</a>	Aggregate	Required	Media Account Transaction Selection Aggregate
<a href="#">RecSelect</a>	IfxPath	Required	Record Select
end-xor			
end Aggregate			

---

### Media Account Transaction Inquiry Response <MediaAcctTrnInqRs>

Media Account Transaction Inquiry Response

See the matching request message [MediaAcctTrnInqRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	

<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">DocCtrlOut</a>	Aggregate	Optional	Document Control Output
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">MediaAcctTrnRec</a>	Aggregate	Required Repeating	Media Account Transaction Record
end-block			
end Aggregate			

---

### Media Account Transaction Keys Aggregate <MediaAcctTrnKeys>

Media Account Transaction Keys Aggregate

Extends: [BaseKeys](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseKeys			
end Elements from BaseKeys			
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
begin-xor		Required	
<a href="#">MediaAcctTrnId</a>	Identifier	Required	Media Account Transaction Identifier
end-xor			
end Aggregate			

---

### Media Account Transaction Modify Request <MediaAcctTrnModRq>

Media Account Transaction Modify Request

See the matching response message [MediaAcctTrnModRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">MediaAcctTrnKeys</a>	Aggregate	Required	Media Account Transaction Keys Aggregate
begin-block		Required Repeating	
<a href="#">MediaAcctTrnInfo</a>	Aggregate	Required	Media Account Transaction Information Aggregate
begin-xor		Optional Repeating	
<a href="#">DelElements</a>	lfxPath	Required	An lfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to delete. It is an error if one attempts to delete Required fields.
<a href="#">UpdElements</a>	lfxPath	Required	An lfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to update. The new value of the updated element is in the accompanying xxxInfo aggregate.
<a href="#">NewElements</a>	lfxPath	Required	An lfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to add. The new value of the new elements is in the accompanying xxxInfo aggregate.
end-xor			
end-block			
end Aggregate			

---

**Media Account Transaction Modify Response <MediaAcctTrnModRs>**

Media Account Transaction Modify Response

See the matching request message [MediaAcctTrnModRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			

begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">MediaAcctTrnRec</a>	Aggregate	Required	Media Account Transaction Record
<a href="#">MediaAcctTrnStatusRec</a>	Aggregate	Required	Media Account Transaction Status Record
end-xor			
end-block			
end Aggregate			

---

### Media Account Transaction Record <MediaAcctTrnRec>

Media Account Transaction Record

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">MediaAcctTrnId</a>	Identifier	Required	Media Account Transaction Identifier
<a href="#">MediaAcctTrnInfo</a>	Aggregate	Required	Media Account Transaction Information Aggregate
<a href="#">MediaAcctTrnEnvr</a>	Aggregate	Optional	Media Account Transaction Environment Aggregate
<a href="#">MediaAcctTrnStatus</a>	Aggregate	Required	Media Account Transaction Status Aggregate
end Aggregate			

---

### Media Account Transaction Reference Aggregate <MediaAcctTrnRef>

Media Account Transaction Reference Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">MediaAcctTrnKeys</a>	Aggregate	Required	Media Account Transaction Keys Aggregate
<a href="#">MediaAcctTrnRec</a>	Aggregate	Required	Media Account Transaction Record
<a href="#">MediaAcctTrnInfo</a>	Aggregate	Required	Media Account Transaction Information Aggregate
end-xor			
end Aggregate			

---

**Media Account Transaction Response Messages Aggregate  
<MediaAcctTrnRsMsg>**

Media Account Transaction Response Messages Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">MsgRecDt</a>	Timestamp	Optional	Audit Record Creation Date
begin-xor		Required	
<a href="#">MediaAcctTrnAddRs</a>	Aggregate	Required	Media Account Transaction Add Response
<a href="#">MediaAcctTrnModRs</a>	Aggregate	Required	Media Account Transaction Modify Response
<a href="#">MediaAcctTrnInqRs</a>	Aggregate	Required	Media Account Transaction Inquiry Response
end-xor			
end Aggregate			

---

**Media Account Transaction Selection Aggregate <MediaAcctTrnSel>**



## Media Account Transaction Selection Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">MediaAcctTrnKeys</a>	Aggregate	Required	Media Account Transaction Keys Aggregate
begin-block		Required	
begin-xor		Optional	
<a href="#">CardKeys</a>	Aggregate	Required	Card Keys Aggregate
<a href="#">LoginName</a>	C-40	Required	Login Name
end-xor			
<a href="#">MediaAcctKeys</a>	Aggregate	Optional	Media Account Keys Aggregate
<a href="#">DtRange</a>	Aggregate	Optional	Date Range
end-block			
end-xor			
end Aggregate			

---

## Media Account Transaction Status Aggregate <MediaAcctTrnStatus>

Media Account Transaction Status Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">MediaAcctTrnStatusCode</a>	Open Enum	Required	Media Account Transaction Status Code Valid values include: Deleted, Valid
<a href="#">StatusDesc</a>	C-255	Optional	Status Description
<a href="#">EffDt</a>	DateTime	Optional	Effective Date Time
<a href="#">StatusModBy</a>	Open Enum	Optional	Status Modified By Valid values include: BPP, BPPSR, BSP, BSPSR, CPP, CPPSR, CSP, CSPSR, Customer, FI, PSP

<a href="#">StatusReason</a>	C-80	Optional	Status Reason
end Aggregate			

---

### Media Account Transaction Status Code <MediaAcctTrnStatusCode>

Media Account Transaction Status Code

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
Valid		N
Deleted		N

---

### Media Account Transaction Status Record <MediaAcctTrnStatusRec>

Media Account Transaction Status Record

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">MediaAcctTrnId</a>	Identifier	Required	Media Account Transaction Identifier
<a href="#">MediaAcctTrnStatus</a>	Aggregate	Required	Media Account Transaction Status Aggregate
end Aggregate			

---

### Media Account Transaction Sync Request <MediaAcctTrnSyncRq>

Media Account Transaction Sync Request

See the matching response message [MediaAcctTrnSyncRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
<a href="#">MediaAcctTrnKeys</a>	Aggregate	Optional Repeating	Media Account Transaction Keys Aggregate
end Aggregate			

### Media Account Transaction Sync Response <MediaAcctTrnSyncRs>

Media Account Transaction Sync Response

See the matching request message [MediaAcctTrnSyncRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">MediaAcctTrnRsMsg</a>	Aggregate	Optional Repeating	Media Account Transaction Response Messages Aggregate
end-block			
end Aggregate			

## Media Account Transaction Type <MediaAcctTrnType>

The type of media account transaction.

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
Dispense	Valuable media was dispensed.	N
Deposit	Valuable media was deposited.	N
ReplenishSet	Replenishment, the amounts reported are set absolutely.	N
ReplenishAdd	Replenishment, the amounts reported are added.	N
ReplenishRemove	Replenishment, the amounts reported are subtracted.	N
BalanceSet	Balancing, the amounts reported are set absolutely.	N

---

## Media Account Type <MediaAcctType>

Describes the type of the media account.

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
TellerDrawer	a teller cash drawer TellerCashDispenser ? device dispensing cash for one or more tellers	N
TellerRecycler	a device dispensing and accepting cash for one or more tellers	N
ATM	an ATM device capable of dispensing and accepting cash, checks and deposit items (envelopes)	N
Cassette	a cassette within an ATM	N
Safe	a bank / branchsafe	N
Container	any other type of container	N

---

## Media Balance <MediaBal>

An aggregate that contains Media Balances. Contains the denomination and different balances/totals for this media container (hopper/cassette).

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">CurAmt</a>	Aggregate	Optional	Currency Amount
begin-xor		Required	
<a href="#">MediaTotal</a>	Aggregate	Required Repeating	Media Total
<a href="#">ChkNumRange</a>	Aggregate	Required Repeating	Check Number Range
end-xor			
end Aggregate			

---

**Media Cash Information <MediaCashData>**

The <MediaCashInfo> aggregate contains details about a cash media item being deposited.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">CashValidity</a>	Open Enum	Optional	Cash Validity. The validity of the cash being deposited.  Defined Values: Genuine, Counterfeit, Suspect
<a href="#">CashQuality</a>	Open Enum	Optional	Cash Quality. The quality of the cash being deposited.  Defined Values: Fit, Unfit
<a href="#">CashSignature</a>	Aggregate	Optional	Cash Signature. The signature of the cash being deposited.
<a href="#">CashSerialNum</a>	C-30	Optional	Cash Serial Number. The serial number of the cash being deposited.
end Aggregate			

## Media Item <MediaItem>

The <MediaItem> aggregate is used to describe the media in a media account transaction. This aggregate is used with the Media Account Adjust Add and Media Account Inventory Inquiry messages.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">MediaItemIdent</a>	NC-36	Optional	Media Item Identifier
<a href="#">MediaItemType</a>	Open Enum	Required	Media Item Type  Valid values include: Card, Cash, CheckStock, Coin, CounterfeitCash, Coupon, Envelope, MoneyOrder, Stamp, SuspectCash, UnverifiedCashDeposit, UnverifiedCheck, VerifiedCashDeposit, VerifiedCheck
<a href="#">MediaItemSubType</a>	Open Enum	Optional	Media Item Sub Type  Valid values include: All, Bank, Commercial, Consumer, Counter, FIMsg, Government, Managers, OnUs, PaymentEnclosed, PreAuthorized, PrePaid, Retained, Transit, Travelers
<a href="#">MediaBal</a>	Aggregate	Required	Media Balance
begin-xor		Optional	
<a href="#">MediaCashData</a>	Aggregate	Required	Media Cash Information
<a href="#">CreditMediaChkData</a>	Aggregate	Required Repeating	Credit Media Check Information
end-xor			
end Aggregate			

## Media Item Identifier <MediaItemIdent>

Uniquely identifies the MediaItem within the MediaAcct

Datatype: **NC-36**

---

### Media Item Sub Type <MediaItemSubType>

Further defines the media item type. Valid values depend on MediaItemType.

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
Counter	a customer check dispensed at a counter	N
Travelers	a travelers check	N
Managers	a managers check	N
Bank	a bank or cashier?s check	N
PreAuthorized		N
Government		N
OnUs		N
Transit		N
Consumer		N
Commercial		N
PaymentEnclosed		N
FIMsg		N
All		N
PrePaid		N
Retained		N

---

### Media Item Type <MediaItemType>

Describes the type of the media item.

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
Cash	dispensed notes	N
UnverifiedCashDeposit	unverified deposited notes	N
VerifiedCashDeposit	verified deposited or recycled notes	N
CounterfeitCash	counterfeit deposited notes	N

SuspectCash	suspected counterfeit deposited notes	N
Coin	dispensed or deposited coins	N
Stamp	dispensed stamps	N
Coupon	dispensed or deposited coupons	N
CheckStock	check stock to be dispensed	N
UnverifiedCheck	deposited unverified checks	N
VerifiedCheck	deposited verified checks	N
Envelope	deposited envelope containing cash or checks	N
Card	retained or presented cards	N
MoneyOrder		N

---

### Media Total <MediaTotal>

An aggregate that contains different types (Begin, Increased, Decreased, Out, Current, etc.) of device hopper/cassette totals. Each entry/occurrence of the defines a separate total type, determined by <TotalType> element, its count and/or monetary total.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">MediaTotalType</a>	Open Enum	Required	Container Total Type <hr/> Valid values include: Current, Deposited, Dispensed, MovedIn, MovedOut, Original, ReplenisherDecrease, ReplenisherIncrease, Retained
begin-or		Required	
<a href="#">Count</a>	Long	Required	Count
<a href="#">TotalCurAmt</a>	Aggregate	Required	Total Currency Amount
end-or			
end Aggregate			

---

### Container Total Type <MediaTotalType>

Container Total Type



Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Original	Original/Start balance in the hopper/cassette at the last time the counts were reset.	N
ReplenisherIncrease	Total added by a replenisher to the hopper/cassette since the last time the counts were reset.	N
ReplenisherDecrease	Total removed by a replenisher from the hopper/cassette since the last time the counts were reset.	N
Dispensed	Total dispensed to a customer from the hopper/cassette for the current transaction or since the last time the counts were reset during replenishment.	N
Current	Total currently present in the hopper/cassette (End Balance). Calculated by the Server based on the media totals. This value is only returned in a <MediaAcctInqRs>; this value is never sent in a <MediaAcctAdjAddRq>.	N
Deposited	Total deposited by a customer into the hopper/cassette for the current transaction or since the last time the counts were reset during replenishment.	N
Retained	Total retained from a customer (due to error or timeout) into the hopper/cassette for the current transaction or since the last time the counts were reset during replenishment. This amount or count may be suspect in certain cases (due to the way the media was retained).	N
MovedOut	Total moved internally out of the hopper/cassette for the current transaction or since the last time the counts were reset during replenishment.	N
MovedIn	Total moved internally into the hopper/cassette for the current transaction or since the last time the counts were reset during replenishment.	N

---

### Member Since Date <MemberSinceDt>

The date the cardholder became a member of the issuer. This date remains the same for the life of the card.

Datatype: **DateTime**

---

### Memo <Memo>

Memo.  
Generic memo element. Usage depends on context.

Datatype: **C-255**

---

**Merchant Number <MerchNum>**

The merchant number assigned by the acquirer.

Datatype: **C-23**

---

**Method <Method>**

Used as a selection criteria in Audit Messages.

Datatype: **Closed Enum**

**Enumerated Values**

Value	Description	Is default
Add	Add. Specifies that audit records resulting from add actions are to be returned.	N
Mod	Modify. Specifies that audit records resulting from modify actions are to be returned.	N
Del	Delete. Specifies that audit records resulting from delete actions be returned.	N
Can	Cancel. Specifies that audit records resulting from cancel actions be returned.	N
Advise		N
StatusMod		N
AuthMod		N

---

**MICR Read Integrity <MicReadIntegrity>**

MICR Read Integrity. The integrity of the MICR data read from the check

being deposited.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Good	The MICR data was successfully read from the check being deposited.	N
Partial	Some but not all of the MICR data was successfully read from the check being deposited.	N
Bad	The MICR data was not able to be read from the check being deposited.	N

---

### **MICR Unformatted <MicrUnformatted>**

MICR Unformatted. The unformatted MICR data of the check being deposited.

Datatype: **C-64**

---

### **Middle Name <MiddleName>**

Person's Middle Name.

Datatype: **C-40**

---

### **Military Rank <MilitaryRank>**

Datatype: **C-32**

---

### Minimum Length of Password <Min>

Minimum Number of Password Characters.

Datatype: **Long**

---

### Minimum Amount Due <MinAmtDue>

Minimum Amount Due

Extends: [CurAmt](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from CurAmt			
<a href="#">Amt</a>	Decimal	Optional	Amount.
<a href="#">CurCode</a>	Aggregate	Optional	Currency Code
end Elements from CurAmt			
begin Aggregate			
end Aggregate			

---

### Minimum Amount <MinCurAmt>

Minimum Amount. The minimum amount that can be transferred to or from an account.

Extends: [CurAmt](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from CurAmt			
<a href="#">Amt</a>	Decimal	Optional	Amount.
<a href="#">CurCode</a>	Aggregate	Optional	Currency Code
end Elements from CurAmt			

begin Aggregate
end Aggregate

---

### Minimum Payment <MinPmt>

Minimum Payment Amount.

Extends: [CurAmt](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from CurAmt			
<a href="#">Amt</a>	Decimal	Optional	Amount.
<a href="#">CurCode</a>	Aggregate	Optional	Currency Code
end Elements from CurAmt			
begin Aggregate			
end Aggregate			

---

### Marketing Image <MktgImg>

Image of marketing information.

Extends: [Binary](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from Binary			
<a href="#">ContentType</a>	Open Enum	Optional	Specified in IETF RFC 2046.
<a href="#">BinLength</a>	Long	Required	Identifies the size of the binary data in number of bytes.
<a href="#">BinData</a>	Raw Binary Data	Required	Binary data.
end Elements from Binary			
begin Aggregate			
end Aggregate			

---

**Marketing Material <MktgMaterial>**

Marketing Material.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">MktgText</a>	C-unbound	Optional	Marketing Text
<a href="#">MktgImg</a>	Aggregate	Optional	Marketing Image
<a href="#">MktgURL</a>	URL	Optional	Marketing URL
end Aggregate			

---

**Marketing Text <MktgText>**

Verbiage to be presented to the party.

Datatype: **C-unbound**

---

**Marketing URL <MktgURL>**

URL to marketing material.

Datatype: **URL**

---

**Modify Pending Type <ModPendingType>**

Client Modify Pending Type.

Datatype: **Closed Enum**

## Enumerated Values

Value	Description	Is default
Always	changes to recurring transfer or payment models are always propagated to pending transfers or payments based on that model.	N
Never	changes to recurring transfer or payment models are never propagated to pending transfers or payments based on that model.	N
IfRequested	changes to recurring transfer or payment models are propagated to pending transfers or payments based on that model when <ModPending> is set to True in the Modify request and not propagated when <ModPending> is set to False or not specified.	N

---

### Month <Month>

Numeric value representing the month of recurrence. Valid values: integers between 1 and 12 inclusive.

Datatype: **Long**

---

### Mother's Maiden Name <MotherMaidenName>

Datatype: **C-40**

---

### Message Authentication Code <MsgAuthCode>

Message Authentication Code (MAC) aggregate, used to verify the sender's identity and authenticate the message contents.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">MacValue</a>	HexBin-unbound	Required	The Message Authentication Code value. Calculated using an encryption key shared by both endpoints according to a previously agreed algorithm such as ANSI X9.9/FIPS113 or ANSI X9.71/FIPS198.
<a href="#">MacVariant</a>	HexBin-8	Optional	The Message Authentication Variant value. This field is used to ensure that MAC values will not be repeatable. When used, this value will be generated randomly before the MacValue is calculated. Mac variants cannot be retransmitted.
<a href="#">SecObid</a>	Identifier	Optional	The Security Object ID of the encryption key used to calculate the MAC Value. Used in lieu of check digits to help identify key synchronization errors.
end Aggregate			

---

### Message Group Reference <MsgGroupReference>

Common Reference data may be provided in the context request header of any message. As the name implies, it is intended to provide a mechanism that group messages with data that can be referenced in other messages.

This is a business or systems defined data field whose value is independent of the message RqUID and may be determined prior to creating the message.

It is commonly used as a batch number reference so that all messages that are part of the same batch contain a common reference number.

For example, a batch of PmtAddRq messages may contain a batch number in the MsgGroupReference. A subsequent ChkSumAddRq can include a reference to that batch number. The check sum value in that message would therefore represent a checksum of values contained in all of the messages which have the same value in the MsgGroupReference.

To carry the example one step further, all ChkSumAddRq messages sent in a single day can include a formatted date as the MsgGroupReference and an end-of-day ChkSumAddRq could provide a check sum of all batch totals.

Datatype: **C-36**



---

### Audit Record Creation Date <MsgRecDt>

Date/time at which the audit record was stored/created by the service provider.

Datatype: **Timestamp**

---

### Message Request Header <MsgRqHdr>

The message header request aggregate contains common information for all request messages.

Extended By: [OperRqHdr](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">AsyncRqUID</a>	UUID	Optional	Asynchronous Request Identifier
<a href="#">SvcIdent</a>	Aggregate	Optional	Svc Identifier for message routing
<a href="#">CredentialsRqHdr</a>	Aggregate	Optional Repeating	Credentials Request Header
<a href="#">ContextRqHdr</a>	Aggregate	Optional	Context Request Header
<a href="#">FeeRqHdr</a>	Aggregate	Optional Repeating	Fee Request Header
end Aggregate			

---

### Message Response Header <MsgRsHdr>

The message header response aggregate contains common information for all response messages.

Extended By: [OperRsHdr](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">AsyncRqUID</a>	UUID	Optional	Asynchronous Request Identifier  This element will be deprecated from this aggregate. Use AsyncRsData instead.
<a href="#">AsyncRsData</a>	Aggregate	Optional	Asynchronous Response Data
<a href="#">CredentialsRsHdr</a>	Aggregate	Optional Repeating	Credentials Response Header
<a href="#">ContextRsHdr</a>	Aggregate	Optional	Context Response Header
<a href="#">FeeRsHdr</a>	Aggregate	Optional Repeating	Fee Response Header
<a href="#">CardUpdateRsHdr</a>	Aggregate	Optional	Card Update Response Header
end Aggregate			

---

### Messages Supported Element <MsgSupt>

Message Supported is generally a part of a Svc. It indicates that the message is supported in the service. IFX convention is to indicate the message without the "Rq" or "Rs" suffix. Both the request and response must be supported.

Datatype: **C-64**

---

### Checksum Message Type <MsgType>

Checksum Message Type. Message type of transaction being calculated for the checksum.

Defined values: All IFX Add and Mod messages.

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
-------	-------------	------------

---

**North American Industry Classification System <NAICS>**

North American Industry Classification System

Datatype: **C-6**

---

**Name <Name>**

Name. Usage depends on context.  
Used as a generic name.

Datatype: **C-40**

---

**Person Name Prefix <NamePrefix>**

Person's Title prefix. For example, "Ms.", or "Dr."

Datatype: **C-8**

---

**Name Suffix <NameSuffix>**

Person's Name Suffix. For example, "MD" or "Jr."

Datatype: **C-40**

---

**Nationality <Nationality>**

Nationality.

Datatype: **C-40**

---

**Net Amount <NetCurAmt>**

The net value of all totals within the specified session. For example, this could be the net amount of the Debit and Credit Session Balances.

Extends: [CurAmt](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from CurAmt			
<a href="#">Amt</a>	Decimal	Optional	Amount.
<a href="#">CurCode</a>	Aggregate	Optional	Currency Code
end Elements from CurAmt			
begin Aggregate			
end Aggregate			

---

**Net Session Totals <NetSessionTotals>**

The total value of one or more sessions <NetCurAmount> returned in <SessionTotalsRec>

Extends: [CurAmt](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from CurAmt			
<a href="#">Amt</a>	Decimal	Optional	Amount.
<a href="#">CurCode</a>	Aggregate	Optional	Currency Code
end Elements from CurAmt			
begin Aggregate			
end Aggregate			

---

**Network Owner <NetworkOwner>**

The name of the individual or organization that owns the source network.

Datatype: **Open Enum**

**Enumerated Values**

Value	Description	Is default
ATM	Automated Teller Machine	N
Branch	Branch network	N
POS	Point of Sale Terminal or other Retail Source	N
CallCenter	Call center network	N
ACH	Automated Clearing House	N
FedNet	Federal Reserve Network	N
SWIFT	Society Worldwide International Funds Transfer	N
Other	Other transaction origination organization	N

---

**Network Reference Identifier <NetworkRefIdent>**

Reference number assigned by network due to the processing of a message at the respective network. Example: Federal Reserve wire network assigns a Fed Reference Number or ACH trace number or an ISO retrieval reference number.

Datatype: **NC-36**

---

**Network Transaction Data <NetworkTrnData>**

The Network Transaction Data aggregate <NetworkTrnData> contains information regarding the network processing the transaction, i.e., owner, location, bank ID and reference number assigned by the network when processing the transaction. Information in this aggregate is also used for providing the physical location of an automated terminal at which a

customer conducts a transaction. The physical location information may be required to be printed on statements and receipts for regulatory purposes.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">NetworkOwner</a>	Open Enum	Required	Network Owner. The name of the individual or organization that owns the source network.  Defined Values: ATM, POS, ACH, FedNet, SWIFT, Branch, CallCenter, Other
<a href="#">OriginatorName</a>	C-40	Optional	Name. Name of originator of the Message.
<a href="#">OriginatorType</a>	Long	Optional	The type of organization that the originator represents. This is usually a coded value representing the industry that the organization operates in. It contains the SIC code or other nationally defined industry value.
<a href="#">TerminalIdent</a>	NC-36	Optional	Terminal Identifier. Identification of terminal, such as terminal code or terminal number of ATM. Required if <NetworkOwner> is ATM.
<a href="#">TerminalType</a>	Open Enum	Optional	Defined values: AdminTerm, ATM, POS, CustomerDevice, ECR, DialCash, TravelerCheckDispenser, FuelPump, ScripTerm, CouponTerm, TicketTerm, POBTerm, Teller, Utility, Vending, Payment, VRU
begin-or		Optional	
<a href="#">PostAddr</a>	Aggregate	Optional	Postal Address. Physical Address of the terminal. At least one of <PostAddr>, <Desc> and <Name> is required if <NetworkOwner> is ATM.
<a href="#">Desc</a>	C-80	Optional	Description. A generally accepted name for the location of the terminal. At least one of <PostAddr>, <Desc> and <Name> is required if <NetworkOwner> is ATM.
<a href="#">Name</a>	C-40	Optional	Name. Name of the owner or operator of the terminal. At least one of <PostAddr>, <Desc> and <Name> is required if <NetworkOwner> is ATM.
end-or			
<a href="#">FIIdentType</a>	Open Enum	Optional	Bank Identifier Type. Type of bank identifier.  Default value is ABA.
<a href="#">FIIdent</a>	NC-34	Optional	Bank Identifier. Qualifies account number

			if known by the customer/client. Usage is expected to be routing and transit number in the US or the equivalent in an international implementation. This is required in USA when <NetworkOwner> is ACH.
<a href="#">NetworkRefIdent</a>	NC-36	Optional	Network Reference Identifier. Reference number assigned by network due to the processing of a message at the respective network. Example: Federal Reserve wire network assigns a Fed Reference Number or ACH trace number, or an ISO retrieval reference number.
<a href="#">AcquirerIdent</a>	NC-36	Optional	Acquirer Identifier
<a href="#">MerchNum</a>	C-23	Optional	Merchant Number
<a href="#">MCC</a>	C-4	Optional	Merchant Category Code
end Aggregate			

---

### New Elements <NewElements>

An lfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to add. The new value of the new elements is in the accompanying xxxInfo aggregate.

Datatype: **lfxPath**

---

### Foreign Exchange Rate <NewForExRate>

The quoted rate for the rate type.

Extends: [ExchangeRate](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from ExchangeRate			
<a href="#">ExchRate</a>	Decimal	Required	Currency Exchange Rate
<a href="#">BaseCurCode</a>	Aggregate	Optional	Base Currency Code
<a href="#">ContraCurCode</a>	Aggregate	Optional	Contra Currency Code
	Closed		

<a href="#">ExchConvertRule</a>	Enum	Optional	Exchange Convert Rule Valid values are limited to: Direct, Indirect
<a href="#">ExchRatePrecision</a>	Long	Optional	Exchange Rate Precision
<a href="#">ExchRateInvertPrec</a>	Long	Optional	Exchange Rate Inverted Precision
<a href="#">ExchMktConvertRule</a>	Closed Enum	Optional	Market Currency Conversion Indicator Valid values are limited to: Direct, Indirect
<a href="#">ExchMktRatePrecision</a>	Long	Optional	Exchange Market Rate Precision
end Elements from ExchangeRate			
begin Aggregate			
end Aggregate			

---

### **New Token <NewToken>**

New Token. This is a new token that has been generated by the server and returned in an Audit response message. See Token.

Datatype: **Identifier**

---

### **Next Closing Date <NextDt>**

Next Closing Date

Datatype: **DateTime**

---

### **Next Due Date <NextDueDt>**

The projected date on which the next payment will be due. This is associated with the Next Statement Date.



Datatype: **Date**

---

**Next Issue Date <NextIssueDt>**

Next Issue Date

Datatype: **DateTime**

---

**Next Payment <NextPmt>**

The amount of the next payment.

Extends: [CurAmt](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from CurAmt			
<a href="#">Amt</a>	Decimal	Optional	Amount.
<a href="#">CurCode</a>	Aggregate	Optional	Currency Code
end Elements from CurAmt			
begin Aggregate			
end Aggregate			

---

**Next Statement Data Aggregate <NextStmntData>**

Contains future statement data, such as the statement date and payment due date, related to an account.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			

<a href="#">NextStmtDt</a>	Date	Optional	The anticipated date on which a statement will be generated. When there are multiple dates present they will occur in the order of nearest to farthest chronological date.
<a href="#">NextDueDt</a>	Date	Optional	The payment due date associated with the NextStmtDt.
end Aggregate			

---

### Next Statement Date <NextStmtDt>

The projected date on which the next statement will be generated.

Datatype: **Date**

---

### Nickname <Nickname>

Used to allow a customer to assign nicknames to objects that are stored on a server. For example, a customer may apply a nickname to an account, payee, or payment.

Datatype: **C-40**

---

### Non Reissue Reason <NonReissueRsn>

The reason the card was not selected for reissue.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Delinquent		N
Overline		N

Status		N
Inactive		N

---

### No Show Indicator <NoShowInd>

An indicator noting that the individual did not show up after making a reservation for a vehicle or lodging.

Datatype: **Boolean**

---

### Note Add Message <NoteAddRq>

Note Add Message

See the matching response message [NoteAddRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">NoteInfo</a>	Aggregate	Required	Note Information Aggregate
end Aggregate			

---

### Note Add Response <NoteAddRs>

Note Add Response

See the matching request message [NoteAddRq](#)

Datatype: **Aggregate**

---

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Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">NoteRec</a>	Aggregate	Required	Note Record
<a href="#">NoteStatusRec</a>	Aggregate	Required	Note Status Record
end-xor			
end-block			
end Aggregate			

---

### Note Delete Request <NoteDelRq>

Note Delete Request

See the matching response message [NoteDelRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">NoteKeys</a>	Aggregate	Required	Note Keys Aggregate
end Aggregate			

---

### Note Delete Response <NoteDelRs>

Note Delete Response

See the matching request message [NoteDelRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">NoteRec</a>	Aggregate	Required	Note Record
<a href="#">NoteStatusRec</a>	Aggregate	Required	Note Status Record
end-xor			
end-block			
end Aggregate			

---

**Note Environment Aggregate <NoteEnvr>**

Note Environment Aggregate

Extends: [BaseEnvr](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseEnvr			
<a href="#">CreatedDt</a>	DateTime	Required	Created Date/Time. The date/time the object was created.
<a href="#">CreateReflIdent</a>	NC-36	Optional	An identifier used to uniquely identify the creation of this object to the system that created the object. This will usually be a link to reference information used in creating the object.
<a href="#">ClientCreateDt</a>	DateTime	Optional	The created date/time as reported by the client. This can vary from the object creation date/time due to time zone differences, communication delays, etc
<a href="#">ClientBusinessDt</a>	DateTime	Optional	The date/time that the client recorded this object for operational purposes.

			This date/time will often be used to manage the availability of information or funds.
<a href="#">LastUpdateDt</a>	DateTime	Optional	Last update Date/Time. The date/time the object was created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LastUpdateRqUID</a>	UUID	Optional	Last update RqUID. The RqUID from the message that resulted in the object being created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LoginName</a>	C-40	Optional	The login name (or Id) of the individual that authorized this object to be created. This is typically used when the object is created on behalf of its owner by someone who is not normally represented as a Party (i.e., an employee or agent).
<a href="#">PartyKeys</a>	Aggregate	Optional	Reference to the Party that this object is owned by or authorized by.
<a href="#">CardKeys</a>	Aggregate	Optional	This is dependent on Card proposal. Currently this is implemented as the CardLogicalData aggregate.
<a href="#">PassbkKeys</a>	Aggregate	Optional	Currently PassbkAcceptData.
<a href="#">NetworkTrnData</a>	Aggregate	Optional	Network Transaction Information. Identification and location of the terminal from which the message originates.
<a href="#">ServerTerminalSeqNum</a>	NC-36	Optional	Server Terminal Sequence Number. A terminal sequence number generated by the server to identify this object. This number is used in ATM and POS environments to uniquely identify transactions (with terminal name and date) for transaction management.
<a href="#">PointOfServiceData</a>	Aggregate	Optional	The Point of Service Data. This aggregate contains information about the environment in which this message originated.
<a href="#">ClientTerminalSeqNum</a>	NC-36	Optional	Client Terminal Sequence Number. A terminal sequence number generated by the client to identify this object. This number is used in ATM, POS, Branch, Call Center and Teller environments to uniquely identify transactions at the client (with terminal name and date). This number is often required when requesting supporting documentation related to a customer transaction.
end Elements from BaseEnvr			

begin Aggregate
end Aggregate

---

**Note Identifier <NotelD>**

Note Identifier

Datatype: **Identifier**

---

**Note Information Aggregate <NotelInfo>**

Note Information Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">BaseKeys</a>	Abstract Aggregate	Required Repeating	<p><b>Valid Aggregates are:</b></p> <ul style="list-style-type: none"> <li>AcctKeys</li> <li>AcctStmtKeys</li> <li>AcctTrnImgKeys</li> <li>AcctTrnKeys</li> <li>AlertKeys</li> <li>BillerKeys</li> <li>BillKeys</li> <li>CardAcctRelKeys</li> <li>CardKeys</li> <li>CardOrderKeys</li> <li>ChkAcceptKeys</li> <li>ChkIssueKeys</li> <li>ChkOrdKeys</li> <li>ChksumKeys</li> <li>CompRemitStmtKeys</li> <li>CreditKeys</li> <li>CustPayeeKeys</li> <li>DebitKeys</li> <li>DepBkOrdKeys</li> <li>DevKeys</li> <li>DiscKeys</li> <li>DisputeKeys</li> <li>ForExDealKeys</li> <li>ForExQuoteKeys</li> <li>ForExRateSheetKeys</li> <li>MediaAcctKeys</li> </ul> <p>Base Keys</p>

			Aggregate	MediaAcctTrnKeys NoteKeys PartyAcctRelKeys PartyCardRelKeys PartyKeys PartyPartyRelKeys PartySvcAcctRelKeys PartySvcRelKeys PassbkItemKeys PassbkKeys PmtBatchKeys PmtBatchStatKeys PmtEnclKeys PmtKeys PurchItemKeys RecurChkOrdKeys RecurPmtKeys RecurXferKeys RemitKeys SecObjKeys StdPayeeKeys StopChkKeys SvcKeys SvcProviderKeys TerminalObjKeys TerminalSPObjKeys XferKeys
<a href="#">NoteType</a>	C-80	Optional	Note Type	
<a href="#">NoteUse</a>	C-80	Optional	Note Usage	
<a href="#">Desc</a>	C-80	Optional	Description	
<a href="#">LongText</a>	C-unbound	Optional	Generic Text	
<a href="#">StartDt</a>	DateTime	Optional	Start Date	
begin-xor		Optional		
<a href="#">Term</a>	Aggregate	Required	The Term for a deposit or credit account.	
<a href="#">ExpDt</a>	DateTime	Required	Expiration Date	
end-xor				
end Aggregate				

---

### Note Inquiry Request <NotelnqRq>

Note Inquiry Request

See the matching response message [NotelnqRs](#)

Datatype: **Aggregate**

---



Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">DocCtrlIn</a>	Aggregate	Optional	Document Control Input
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
begin-xor		Optional Repeating	
<a href="#">NoteSel</a>	Aggregate	Required	Note Selection Aggregate
<a href="#">RecSelect</a>	lfxPath	Required	Record Select
end-xor			
end Aggregate			

---

### Note Inquiry Response <NotelnqRs>

Note Inquiry Response

See the matching request message [NotelnqRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">DocCtrlOut</a>	Aggregate	Optional	Document Control Output
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">NoteRec</a>	Aggregate	Required Repeating	Note Record
end-block			
end Aggregate			

---

## Note Keys Aggregate <NoteKeys>

Note Keys Aggregate

Extends:[BaseKeys](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseKeys			
end Elements from BaseKeys			
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
begin-xor		Required	
<a href="#">NotelD</a>	Identifier	Required	Note Identifier
end-xor			
end Aggregate			

---

## Note Modify Request <NoteModRq>

Note Modify Request

See the matching response message [NoteModRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">NoteKeys</a>	Aggregate	Required	Note Keys Aggregate
begin-block		Required Repeating	
<a href="#">NoteInfo</a>	Aggregate	Required	Note Information Aggregate
begin-xor		Optional Repeating	
<a href="#">DelElements</a>	IfxPath	Required	An IfxPath (relative to a base of this IFX object's Info aggregate) which indicates

			which element to delete. It is an error if one attempts to delete Required fields.
<a href="#">UpdElements</a>	IfxPath	Required	An IfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to update. The new value of the updated element is in the accompanying xxxInfo aggregate.
<a href="#">NewElements</a>	IfxPath	Required	An IfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to add. The new value of the new elements is in the accompanying xxxInfo aggregate.
end-xor			
end-block			
end Aggregate			

---

### Note Modify Response <NoteModRs>

Note Modify Response

See the matching request message [NoteModRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">NoteRec</a>	Aggregate	Required	Note Record
<a href="#">NoteStatusRec</a>	Aggregate	Required	Note Status Record
end-xor			
end-block			
end Aggregate			

---

**Note Record <NoteRec>**

Note Record

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">NoteId</a>	Identifier	Required	Note Identifier
<a href="#">NoteInfo</a>	Aggregate	Required	Note Information Aggregate
<a href="#">NoteEnvr</a>	Aggregate	Optional	Note Environment Aggregate
<a href="#">NoteStatus</a>	Aggregate	Required	Note Status Aggregate
end Aggregate			

---

**Note Reference Aggregate <NoteRef>**

Note Reference Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">NoteKeys</a>	Aggregate	Required	Note Keys Aggregate
<a href="#">NoteRec</a>	Aggregate	Required	Note Record
<a href="#">NoteInfo</a>	Aggregate	Required	Note Information Aggregate
end-xor			
end Aggregate			

---

**Note Selection Aggregate <NoteSel>**

Note Selection Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">NoteKeys</a>	Aggregate	Required	Note Keys Aggregate
begin-block		Required	
<a href="#">AlternateKeys</a>	Aggregate	Required	Alternate Keys
<a href="#">NoteUse</a>	C-80	Optional	Note Usage
<a href="#">DtRange</a>	Aggregate	Optional	Indicates selection range of StartDt.
end-block			
end-xor			
end Aggregate			

---

**Note Status Aggregate <NoteStatus>**

Note Status Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">NoteStatusCode</a>	Open Enum	Required	Note Status Code Valid values include: Deleted, Valid
<a href="#">StatusDesc</a>	C-255	Optional	Status Description
<a href="#">EffDt</a>	DateTime	Optional	Effective Date Time
<a href="#">StatusModBy</a>	Open Enum	Optional	Status Modified By Valid values include: BPP, BPPSR, BSP, BPPSR, CPP, CPPSR, CSP, CSPSR, Customer, FI, PSP
end Aggregate			

---

## Note Status Code <NoteStatusCode>

Note Status Code

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Valid		N
Deleted		N

---

## Note Status Modify Request <NoteStatusModRq>

Note Status Modify Request

See the matching response message [NoteStatusModRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">NoteKeys</a>	Aggregate	Required	Note Keys Aggregate
<a href="#">NoteStatus</a>	Aggregate	Required	Note Status Aggregate
end Aggregate			

---

## Note Status Modify Response <NoteStatusModRs>

Note Status Modify Response

See the matching request message [NoteStatusModRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
-----	------	-------	---------------------------

begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">NoteStatusRec</a>	Aggregate	Required	Note Status Record
end-block			
end Aggregate			

---

### Note Status Record <NoteStatusRec>

Note Status Record

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">NotelId</a>	Identifier	Required	Note Identifier
<a href="#">NoteStatus</a>	Aggregate	Required	Note Status Aggregate
end Aggregate			

---

### Note Type <NoteType>

Indicates category of note such as instruction, remark, etc.

Datatype: **C-80**

---

### Note Usage <NoteUse>

Indicates area of impact such as statement presentment, scoring, pricing, etc.

Datatype: **C-80**

---

#### **Notify Required <NotifyReqd>**

Notify Required. If True, the server requires that the client send a <BillStatusModRq> for each change of status of either the bill or its payment. The server may not send True if the client did not set <NotifyWilling> to True in <BillInqRq>.

Datatype: **Boolean**

---

#### **Notify Willing <NotifyWilling>**

Client Willing to Notify. If True, the client is prepared to send notifications of changes to bill status, if desired. If False or absent, the client cannot send notifications of bill status changes.

Datatype: **Boolean**

---

#### **Number In Party <NumberInParty>**

The number of people in a travel party.

Datatype: **Long**

---

#### **Number of Employees <NumEmployees>**



Datatype: **Long**

---

**Number of Instances <NumInsts>**

Number of Instances. In a Recurring Model, the total number of payments or transfers associated with the model.  
If none of , <FinalPrcDt>, or <FinalDueDt> is provided, the model is open-ended.

Datatype: **Long**

---

**Number of Signature Required <NumSignatureReqd>**

Number of signatures required to execute the transaction/maintenance on the account.

Datatype: **Long**

---

**Occupation <Occupation>**

Datatype: **C-50**

---

**Occupational Status <OccupationalStat>**

Occupational Status

Datatype: **Open Enum**

**Enumerated Values**

Value	Description	Is default
Child		N
Student		N
Self-Employed		N
Employed		N
Retired		N
Unemployed		N

---

### Occurrences <Occurrences>

Occurrences

Datatype: **Long**

---

### OED Code <OEDCode>

Officer, Employee, Director Code

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Officer		N
Director		N
Employee		N

---

### Officer, Employee, Director Institution. <OEDInstitution>

Datatype: **Open Enum**

## Enumerated Values

---

Value	Description	Is default
Unknown	Unknown	N
AffiliateFinancialInstitution	Affiliate Financial Institution	N
HoldingCompany	Holding Company	N
OtherFinancialInstitution	Other Financial Institution	N
ThisFinancialInstitution	This Financial Institution	N

---

### Officer, Employee, Director Relationship <OEDRelationship>

Relationship of person to an OED. This may be deprecated in 2.1 when the Party-to-Party aggregate is incorporated.

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
Self		Y
Father		N
Mother		N
Sister		N
Brother		N
Parent		N
Sibling		N

---

### Offer Add Message <OfferAddRq>

Offer Add Message

See the matching response message [OfferAddRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
	Aggregate		

<a href="#">MsgRqHdr</a>		Optional	Message Request Header
<a href="#">OfferInfo</a>	Aggregate	Required	Offer Information Aggregate
end Aggregate			

---

### Offer Add Response <OfferAddRs>

Offer Add Response

See the matching request message [OfferAddRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">OfferRec</a>	Aggregate	Required	Offer Record
<a href="#">OfferStatusRec</a>	Aggregate	Required	Offer Status Record
end-xor			
end-block			
end Aggregate			

---

### Offer Audit Request <OfferAudRq>

Offer Audit Request

See the matching response message [OfferAudRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
-----	------	-------	---------------------------

begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
<a href="#">DtRange</a>	Aggregate	Optional	Date Range
<a href="#">Method</a>	Closed Enum	Optional Repeating	Method Valid values are limited to: Add, Advise, AuthMod, Can, Del, Mod, StatusMod
<a href="#">OfferKeys</a>	Aggregate	Optional Repeating	Offer Keys Aggregate
end Aggregate			

---

### Offer Audit Response <OfferAudRs>

Offer Audit Response

See the matching request message [OfferAudRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">OfferRsMsg</a>	Aggregate	Optional Repeating	Offer Response Messages Aggregate
end-block			
end Aggregate			

---

### Offer Delete Request <OfferDelRq>

## Offer Delete Request

See the matching response message [OfferDelRs](#)

### Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">OfferKeys</a>	Aggregate	Required	Offer Keys Aggregate
end Aggregate			

---

## Offer Delete Response <OfferDelRs>

### Offer Delete Response

See the matching request message [OfferDelRq](#)

### Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">OfferRec</a>	Aggregate	Required	Offer Record
<a href="#">OfferStatusRec</a>	Aggregate	Required	Offer Status Record
end-xor			
end-block			
end Aggregate			

---

**Offer Date <OfferDt>**

The Date the offer was extended.

Datatype: **DateTime**

---

**Offer Environment Aggregate <OfferEnvr>**

Offer Environment Aggregate

Extends: [BaseEnvr](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseEnvr			
<a href="#">CreatedDt</a>	DateTime	Required	Created Date/Time. The date/time the object was created.
<a href="#">CreateRefIdent</a>	NC-36	Optional	An identifier used to uniquely identify the creation of this object to the system that created the object. This will usually be a link to reference information used in creating the object.
<a href="#">ClientCreateDt</a>	DateTime	Optional	The created date/time as reported by the client. This can vary from the object creation date/time due to time zone differences, communication delays, etc
<a href="#">ClientBusinessDt</a>	DateTime	Optional	The date/time that the client recorded this object for operational purposes. This date/time will often be used to manage the availability of information or funds.
<a href="#">LastUpdateDt</a>	DateTime	Optional	Last update Date/Time. The date/time the object was created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LastUpdateRqUID</a>	UUID	Optional	Last update RqUID. The RqUID from the message that resulted in th object being created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
	C-40		

<a href="#">LoginName</a>		Optional	The login name (or Id) of the individual that authorized this object to be created. This is typically used when the object is created on behalf of its owner by someone who is not normally represented as a Party (i.e., an employee or agent).
<a href="#">PartyKeys</a>	Aggregate	Optional	Reference to the Party that this object is owned by or authorized by.
<a href="#">CardKeys</a>	Aggregate	Optional	This is dependent on Card proposal. Currently this is implemented as the CardLogicalData aggregate.
<a href="#">PassbkKeys</a>	Aggregate	Optional	Currently PassbkAcceptData.
<a href="#">NetworkTrnData</a>	Aggregate	Optional	Network Transaction Information. Identification and location of the terminal from which the message originates.
<a href="#">ServerTerminalSeqNum</a>	NC-36	Optional	Server Terminal Sequence Number. A terminal sequence number generated by the server to identify this object. This number is used in ATM and POS environments to uniquely identify transactions (with terminal name and date) for transaction management.
<a href="#">PointOfServiceData</a>	Aggregate	Optional	The Point of Service Data. This aggregate contains information about the environment in which this message originated.
<a href="#">ClientTerminalSeqNum</a>	NC-36	Optional	Client Terminal Sequence Number. A terminal sequence number generated by the client to identify this object. This number is used in ATM, POS, Branch, Call Center and Teller environments to uniquely identify transactions at the client (with terminal name and date). This number is often required when requesting supporting documentation related to a customer transaction.
end Elements from BaseEnvr			
begin Aggregate			
end Aggregate			

---

**Offer Identifier <OfferId>**

Offer Identifier

Datatype: **Identifier**



## Offer Information Aggregate <OfferInfo>

Offer Information Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">AcctKeys</a>	Aggregate	Required	Account Keys Aggregate
<a href="#">PartyKeys</a>	Aggregate	Required	Party Keys Aggregate
end-xor			
<a href="#">Desc</a>	C-80	Optional	Description
<a href="#">PricingPlanIdent</a>	C-36	Optional	Pricing Plan Identifier
<a href="#">ProductIdent</a>	C-42	Optional	Product Identifier
<a href="#">CampaignIdent</a>	NC-36	Optional	Campaign Identifier
<a href="#">LOCLimit</a>	Aggregate	Optional	Credit Limit
<a href="#">InterestRate</a>	Decimal	Optional	Interest Rate
<a href="#">OfferDt</a>	DateTime	Optional	The Date the offer was extended.
<a href="#">MktgMaterial</a>	Aggregate	Optional	Marketing Material
<a href="#">DeliveryInstruction</a>	Aggregate	Optional Repeating	Delivery Instruction
<a href="#">IntrnlFundsAllwdInd</a>	Boolean	Optional	Internal Funds Allowed Indicator
<a href="#">ExpDt</a>	DateTime	Optional	Expiration Date
<a href="#">OfferResponse</a>	Open Enum	Optional	Offer Response  Valid values include: Accepted , Rejected
<a href="#">ResponseDt</a>	DateTime	Optional	Response Date
<a href="#">ResponseMethod</a>	Open Enum	Optional	Response Method  Valid values include: Channel, Courier, Email, Fax, HomeBank, InPerson, LocalPrinter, OverNight, Phone, Post, TwoDay, UPS, URL
<a href="#">ResponseLetterReqd</a>	Boolean	Optional	Response Letter Required
end Aggregate			

---

## Offer Inquiry Request <OfferInqRq>

Offer Inquiry Request

See the matching response message [OfferInqRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">DocCtrlIn</a>	Aggregate	Optional	Document Control Input
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
begin-xor		Optional Repeating	
<a href="#">OfferSel</a>	Aggregate	Required	Offer Selection Aggregate
<a href="#">RecSelect</a>	IfxPath	Required	Record Select
end-xor			
end Aggregate			

---

## Offer Inquiry Response <OfferInqRs>

Offer Inquiry Response

See the matching request message [OfferInqRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
	Aggregate		

<a href="#">MsgRsHdr</a>		Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">DocCtrlOut</a>	Aggregate	Optional	Document Control Output
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">OfferRec</a>	Aggregate	Required Repeating	Offer Record
end-block			
end Aggregate			

### Offer Keys Aggregate <OfferKeys>

Offer Keys Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
begin-xor		Required	
<a href="#">OfferId</a>	Identifier	Required	Offer Identifier
begin-block		Required	
begin-xor		Required	
<a href="#">PartyKeys</a>	Aggregate	Required	Party Keys Aggregate
<a href="#">AcctKeys</a>	Aggregate	Required	Account Keys Aggregate
end-xor			
begin-or		Required	
<a href="#">PricingPlanIdent</a>	C-36	Optional	Pricing Plan Identifier
<a href="#">ProductIdent</a>	C-42	Optional	Product Identifier
<a href="#">EffDt</a>	DateTime	Optional	Effective Date Time
end-or			
end-block			
end-xor			
end Aggregate			

---

## Offer Modify Request <OfferModRq>

Offer Modify Request

See the matching response message [OfferModRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">OfferKeys</a>	Aggregate	Required	Offer Keys Aggregate
begin-block		Required Repeating	
<a href="#">OfferInfo</a>	Aggregate	Required	Offer Information Aggregate
begin-xor		Optional Repeating	
<a href="#">DelElements</a>	IfxPath	Required	An IfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to delete. It is an error if one attempts to delete Required fields.
<a href="#">UpdElements</a>	IfxPath	Required	An IfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to update. The new value of the updated element is in the accompanying xxxInfo aggregate.
<a href="#">NewElements</a>	IfxPath	Required	An IfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to add. The new value of the new elements is in the accompanying xxxInfo aggregate.
end-xor			
end-block			
end Aggregate			

---

## Offer Modify Response <OfferModRs>

Offer Modify Response

See the matching request message [OfferModRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">OfferRec</a>	Aggregate	Required	Offer Record
<a href="#">OfferStatusRec</a>	Aggregate	Required	Offer Status Record
end-xor			
end-block			
end Aggregate			

---

**Offer Record <OfferRec>**

Offer Record

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">OfferId</a>	Identifier	Required	Offer Identifier
<a href="#">OfferInfo</a>	Aggregate	Required	Offer Information Aggregate
<a href="#">OfferEnvr</a>	Aggregate	Optional	Offer Environment Aggregate
<a href="#">OfferStatus</a>	Aggregate	Required	Offer Status Aggregate
end Aggregate			

---

**Offer Reference Aggregate <OfferRef>**

## Offer Reference Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">OfferKeys</a>	Aggregate	Required	Offer Keys Aggregate
<a href="#">OfferRec</a>	Aggregate	Required	Offer Record
<a href="#">OfferInfo</a>	Aggregate	Required	Offer Information Aggregate
end-xor			
end Aggregate			

---

## Offer Response <OfferResponse>

The offer response.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Accepted	The offer was Accepted.	N
Rejected	The offer was Rejected.	N

---

## Offer Response Messages Aggregate <OfferRsMsg>

Offer Response Messages Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">MsgRecDt</a>	Timestamp	Optional	Audit Record Creation Date
begin-xor		Required	

<a href="#">OfferAddRs</a>	Aggregate	Required	Offer Add Response
<a href="#">OfferModRs</a>	Aggregate	Required	Offer Modify Response
<a href="#">OfferDelRs</a>	Aggregate	Required	Offer Delete Response
<a href="#">OfferInqRs</a>	Aggregate	Required	Offer Inquiry Response
<a href="#">OfferStatusModRs</a>	Aggregate	Required	Offer Status Modify Response
<a href="#">OfferStatusInqRs</a>	Aggregate	Required	Offer Status Inquiry Response
end-xor			
end Aggregate			

---

### Offer Selection Aggregate <OfferSel>

Offer Selection Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required Repeating	
<a href="#">OfferKeys</a>	Aggregate	Required	Offer Keys Aggregate
begin-block		Required	
<a href="#">PartyKeys</a>	Aggregate	Optional	Party Keys Aggregate
<a href="#">AcctKeys</a>	Aggregate	Optional	Account Keys Aggregate
<a href="#">DtRange</a>	Aggregate	Optional	Date Range
end-block			
end-xor			
end Aggregate			

---

### Offer Status Aggregate <OfferStatus>

Offer Status Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">OfferStatusCode</a>	Open Enum	Required	The status of the offer.  Valid values include: Active, Canceled, Deleted, Expired, InActive, New, PendDelete, Pending, Rejected, Suspended
<a href="#">StatusDesc</a>	C-255	Optional	Status Description
<a href="#">EffDt</a>	DateTime	Optional	Effective Date Time
<a href="#">ApprovalIdent</a>	NC-36	Optional	Approval Identifier
<a href="#">StatusModBy</a>	Open Enum	Optional	Status Modified By  Valid values include: BPP, BPPSR, BSP, BPSR, CPP, CPPSR, CSP, CSPSR, Customer, FI, PSP
end Aggregate			

---

### Offer Status Code <OfferStatusCode>

Offer Status Code

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
Pending		N
Active		N
InActive		N
PendDelete		N
Deleted		N
New		N
Rejected		N
Canceled		N
Expired		N
Suspended		N

---



## Offer Status Inquiry Request <OfferStatusInqRq>

Offer Status Inquiry Request

See the matching response message [OfferStatusInqRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
begin-xor		Optional Repeating	
<a href="#">OfferSel</a>	Aggregate	Required	Offer Selection Aggregate
<a href="#">RecSelect</a>	IfxPath	Required	Record Select
end-xor			
end Aggregate			

---

## Offer Status Inquiry Response <OfferStatusInqRs>

Offer Status Inquiry Response

See the matching request message [OfferStatusInqRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">OfferStatusRec</a>	Aggregate	Optional	Offer Status Record

		Repeating	
end-block			
end Aggregate			

---

### Offer Status Modify Request <OfferStatusModRq>

Offer Status Modify Request

See the matching response message [OfferStatusModRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">OfferKeys</a>	Aggregate	Required	Offer Keys Aggregate
<a href="#">OfferStatus</a>	Aggregate	Required	Offer Status Aggregate
end Aggregate			

---

### Offer Status Modify Response <OfferStatusModRs>

Offer Status Modify Response

See the matching request message [OfferStatusModRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful

<a href="#">OfferStatusRec</a>	Aggregate	Required	Offer Status Record
end-block			
end Aggregate			

---

### Offer Status Record <OfferStatusRec>

Offer Status Record

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">OfferId</a>	Identifier	Required	Offer Identifier
<a href="#">OfferStatus</a>	Aggregate	Required	Offer Status Aggregate
end Aggregate			

---

### Offer Sync Request <OfferSyncRq>

Offer Sync Request

See the matching response message [OfferSyncRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
<a href="#">OfferKeys</a>	Aggregate	Optional Repeating	Offer Keys Aggregate
end Aggregate			

---

## Offer Sync Response <OfferSyncRs>

Offer Sync Response

See the matching request message [OfferSyncRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">OfferRsMsg</a>	Aggregate	Optional Repeating	Offer Response Messages Aggregate
end-block			
end Aggregate			

---

## On Error <OnError>

Defines the behavior when an error occurs while processing a message.

Note: when ProcessConcurrent is true, the OnError behavior could lead to unexpected results since the order of processing messages is undetermined.

Datatype: **Closed Enum**

## Enumerated Values

Value	Description	Is default
Continue	carry on	Y
Abort	Do not process any more messages, but send responses for all messages processed so far.	N
ReverseProcessed	reverse all messages processed successfully so far and do not process any more messages.	N
ReverseAll	continue processing all messages, then reverse all	N

	messages	
--	----------	--

---

### On Warning <OnWarning>

Defines the behavior when a warning occurs while processing a message.

Note: when ProcessConcurrent is true, the OnError behavior could lead to unexpected results since the order of processing messages is undetermined.

Datatype: **Closed Enum**

### Enumerated Values

Value	Description	Is default
Continue	carry on	Y
Abort	Do not process any more messages, but send responses for all messages processed so far.	N
ReverseProcessed	reverse all messages processed successfully so far and do not process any more messages	N
ReverseAll	continue processing all messages, then reverse all messages	N

---

### Opening Date <OpenDt>

Opening date of object, usage depends on context.

Datatype: **Date**

---

### Operation Reason Code <OperReasonCode>

Reason for the reversal

Datatype: **Open Enum**

# Enumerated Values

Value	Description	Is default
-------	-------------	------------

## Operation Request Header <OperRqHdr>

The operation request header aggregate contains common information for operation requests.

Extends: [MsgRqHdr](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from MsgRqHdr			
<a href="#">AsyncRqUID</a>	UUID	Optional	Asynchronous Request Identifier
<a href="#">SvcIdent</a>	Aggregate	Optional	Svc Identifier for message routing
<a href="#">CredentialsRqHdr</a>	Aggregate	Optional Repeating	Credentials Request Header
<a href="#">ContextRqHdr</a>	Aggregate	Optional	Context Request Header
<a href="#">FeeRqHdr</a>	Aggregate	Optional Repeating	Fee Request Header
end Elements from MsgRqHdr			
begin Aggregate			
<a href="#">OperRules</a>	Aggregate	Optional	Operation Rules
end Aggregate			

## Operation Response Header <OperRsHdr>

The control part of a response header.

Extends: [MsgRsHdr](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from MsgRsHdr			

<a href="#">AsyncRqUID</a>	UUID	Optional	Asynchronous Request Identifier  This element will be deprecated from this aggregate. Use AsyncRsData instead.
<a href="#">AsyncRsData</a>	Aggregate	Optional	Asynchronous Response Data
<a href="#">CredentialsRsHdr</a>	Aggregate	Optional Repeating	Credentials Response Header
<a href="#">ContextRsHdr</a>	Aggregate	Optional	Context Response Header
<a href="#">FeeRsHdr</a>	Aggregate	Optional Repeating	Fee Response Header
<a href="#">CardUpdateRsHdr</a>	Aggregate	Optional	Card Update Response Header
end Elements from MsgRsHdr			
begin Aggregate			
end Aggregate			

---

## Operation Rules <OperRules>

Processing and error recovery rules for the operation

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">ProcessConcurrent</a>	Boolean	Optional	Process Concurrent
<a href="#">OnWarning</a>	Closed Enum	Optional	On Warning  Valid values are limited to: Abort, Continue, ReverseAll, ReverseProcessed  Default Value: Continue
<a href="#">OnError</a>	Closed Enum	Optional	On Error  Valid values are limited to: Abort, Continue, ReverseAll, ReverseProcessed  Default Value: Continue
end Aggregate			

---

## Operation Supported <OperSupt>

Operation Supported indicates that a Svc supports the named Operation. The IFX convention is to indicate the name of the Oper without the "Rq" or "Rs" suffix. Both the request and response must be supported.

Datatype: **C-64**

---

## Options Supported <OptSupt>

The <OptSupt> element is included in each Service Profile where there are options that the client should know are supported or not supported by the server.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
AcctNickname	Account Nickname. If included, the service provider stores user-assigned account nicknames. The nicknames are defined out of band or via the Account Activate message, and may be modified via the Account Modify message. If not included, account nicknames are not stored.	N
BillerPayee	Biller Payee. If included, the Pay provider supports electronic payments to payees that are billers. The remittance and settlement information may be copied from the biller directory entry returned by the Biller Inquiry message. If not included, payments to biller payees are not supported.	N
BillStatus	Bill Status. If included, the BSP maintains the Bill Status information that flows from the Biller and from the CSP via <BillStatusModRq>.	N
CustPayeeNickname	Customer Payee Nickname. If included, the Pay provider stores user-assigned payee nicknames. If not included, payee nicknames are not stored.	N
ForEx	Foreign Exchange. If included, client may specify a transfer or payment amount in a currency other than that of the funding account. If not included, transfer or payment amount must be in currency of funding account.	N
ForExCommit	Foreign Exchange Commitment. If included, client may request an exchange rate commitment via the ForExInq messages and specify a previously committed exchange rate in a foreign exchange transfer by including the <ForExCommit> aggregate. If not included, Foreign Exchange Commitments are not supported.	N
FSPayee	Fully Specified Payee. If included, the Pay provider	N



	supports payments to payees based on name, address, and, optionally, phone number provided by the customer. If not included, payments to payees with customer-provided address information are not supported.	
ImmediateXfer	Immediate Transfers. If included, the provider must execute transfers that set the element to True in real time. If not included, all transfers are assumed to be executed through end of day processing.	N
LineItem	Line Item. If included, the Pay provider supports use of the aggregate within the aggregate. If not included, invoice line items are not supported.	N
RecCtrl	Records Control. If included, the server reserves the right to return an incomplete result set for an Inquiry, Audit or Sync message and indicate that more matching records are available using the the <RecCtrlOut> aggregate. In this case, the client must perform one or more additional requests to retrieve the rest of the result set. If not included, the server must always send the complete set of records that match the criteria specified in the request message.	N
RecFinalCurAmt	Recurring Model Final Currency Amount. If included the provider supports use of the <FinalCurAmt> element in the <RecModelInfo> aggregate to allow customers to specify a final transfer or payment generated from a recurring model for an amount different from the nominal amount of the model. If not included, the final transfer or payment generated from a recurring transfer or payment model must be for the nominal amount.	N
RecInitialCurAmt	Recurring Model Initial Currency Amount. If included, the provider supports use of the <InitialCurAmt> element in the <RecModelInfo> aggregate to allow customers to specify an initial transfer or payment generated from a recurring model for an amount different from the nominal amount of the model. If not included, the first transfer or payment generated from a recurring transfer or payment model must be for the nominal amount.	N
RecPend	Recurring Pending. If included, the server generates pending payments/transfers prior to the date required to process them. If not included, no pending payments/transfers are generated.	N
SchedXfer	Scheduled Transfers. If included, the provider supports scheduled future transfers. If not included, but transfers are supported, they must be pay today (end of day processing) or immediate.	N
SkipInst	Skip Instances. If included, the service provider supports use of the <SkipNextN> element in the Modify Recurring Payment/Transfer/Interbank Transfer Model Messages. If not included, the service provider does not support skipping payments/transfers generated from a recurring payment/transfer model.	N
SuppressEcho	Indicates that the server supports Echo Suppression.	N
StopChkRangeSC	Stop Check Range Selection Criteria. If included, the server supports using the aggregate in Stop Check Add and Cancel messages. If not included, may not be used in request messages for Stop Check functions.	N
XferPayee	Transfer Payee. If included, the Pay provider supports payments to payees based on customer-provided bank and account information (i.e., the customer provides	N

	the bank account number of the payee). If not included, payments to payees with customer-provided bank and account information are not supported.	
AddReadOnlyAllowed	Server allows read only data on add. If included, this option notifies the client that it is allowed to include the server controlled (i.e., read only) data on an add message. This option is used when the client and server share responsibility for the creation of an object (i.e., where the client is operating as a server on behalf of the server).	N

---

**Order Accept Date <OrderAcptDt>**

The date that the order was accepted or generated.

Datatype: **DateTime**

---

**Order Schedule Date <OrderSchedDt>**

The date that the order was scheduled for fulfillment.

Datatype: **DateTime**

---

**Order Ship Date <OrderShipDt>**

The date that the order was shipped to the customer.

Datatype: **DateTime**

---

**Order Volume <OrderVolume>**

The number of units to be ordered for a particular inventory item.

Datatype: **Long**

---

### Organization <Org>

The Organization <Org> element is used where information must be qualified by the organization that assigned it. For example, a tax authority assigns the tax type in the <BankAcctTaxInqRq>, so <Org> is used to identify the state or country tax authority. In general, <Org> is used to make identifiers globally unique in cases where there is no existing real-world globally unique identifier. An organization may register a globally unique value of <Org> through the IFX Governance Process to avoid conflicts with other organizations with similar names. The value of <Org>, like <SPName>, may also be an Internet domain name registered to the Organization defining that name space.

Datatype: **Identifier**

---

### Organization Category <OrgCategory>

Organization Category

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">OrgCategoryCode</a>	Aggregate	Required	Organization Category Code
<a href="#">Desc</a>	C-80	Optional	Description
end Aggregate			

---

### Organization Category Code <OrgCategoryCode>

Organization Category Code

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-or		Required Repeating	
<a href="#">MCC</a>	C-4	Optional	Merchant Category Code
<a href="#">NAICS</a>	C-6	Optional	North American Industry Classification System
<a href="#">SIC</a>	C-4	Optional	Standard Industry Classification
<a href="#">OrgCatIdent</a>	Aggregate	Optional	Organization Category Identifier
end-or			
end Aggregate			

---

**Organization Category Identifier <OrgCatIdent>**

Organization Category Identifier

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">OrgCatIdentSource</a>	Open Enum	Optional	Organization Category Identifier Source
<a href="#">OrgCatIdentValue</a>	Open Enum	Optional	Organization Category Identifier Value
end Aggregate			

---

**Organization Category Identifier Source <OrgCatIdentSource>**

Organization Category Identifier Source

Datatype: **Open Enum**

**Enumerated Values**

---

Value	Description	Is default
-------	-------------	------------

### Organization Category Identifier Value <OrgCatIdentValue>

Organization Category Identifier Value

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
-------	-------------	------------

### Organization Data <OrgData>

Organization Data

Extends: [PartyData](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from PartyData			
<a href="#">Contact</a>	Aggregate	Optional Repeating	Contact
<a href="#">IssuedIdent</a>	Aggregate	Optional Repeating	Issued Identification
end Elements from PartyData			
begin Aggregate			
<a href="#">OrgName</a>	Aggregate	Optional Repeating	Organization Name
<a href="#">OrgCategory</a>	Aggregate	Optional	Organization Category
end Aggregate			

## Organization Establish Date <OrgEstablishDt>

The date the organization was established.

Datatype: **Date**

---

## Organization Identification <OrgIdent>

Organization Identification.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RegistrationAuthority</a>	Open Enum	Required	Registration Authority Valid values include: DunAndBradstreet, OrgSpecific, USA.TaxId
<a href="#">RegistrationNumber</a>	Identifier	Required	Registration Number
end Aggregate			

---

## Organization Name <OrgName>

Organization Name

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">Language</a>	NC-17	Optional	Language
begin-or		Required	
<a href="#">Name</a>	C-40	Optional	Name
<a href="#">LegalName</a>	C-96	Optional	Legal Name
end-or			
end Aggregate			

## Organization variant of PartyInfo <OrgPartyInfo>

Extends: [PartyInfo](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from PartyInfo			
<a href="#">PartyPref</a>	Aggregate	Optional	Party Preference
<a href="#">FinancialData</a>	Aggregate	Optional Repeating	Financial Data
<a href="#">EstablishedDt</a>	Date	Optional	Established Date
<a href="#">ServiceLevel</a>	Open Enum	Optional	Service Level  Valid values include: BusinessClass, Coach, FirstClass, Gold, Platinum, Silver
<a href="#">OriginatingBranch</a>	C-32	Optional	Originating Branch
<a href="#">OriginatingBank</a>	C-32	Optional	Originating Bank
<a href="#">PreferredBranch</a>	C-32	Optional	Preferred Branch
<a href="#">PreferredBank</a>	C-32	Optional	Preferred Bank
<a href="#">ResponsibleBranch</a>	C-32	Optional	Responsible Branch
<a href="#">ResponsibleBank</a>	C-32	Optional	Responsible Bank
<a href="#">ResidenceCountry</a>	Aggregate	Optional	ResidenceCountry
<a href="#">TaxResidenceCountry</a>	Aggregate	Optional	TaxResidence Country
<a href="#">LastContactDt</a>	DateTime	Optional	Last Contact Date
<a href="#">LastPrivacyNoteDt</a>	Date	Optional	Last Privacy Note Date
<a href="#">ClosedDt</a>	Date	Optional	Closed Date
<a href="#">CloseReason</a>	C-80	Optional	Close Reason
<a href="#">PartyAffiliateData</a>	Aggregate	Optional Repeating	Party Affiliate Data
<a href="#">CreditRisk</a>	Aggregate	Optional Repeating	Credit Risk
<a href="#">CreditReviewTimeFrame</a>	Aggregate	Optional	Credit Review Time Frame
<a href="#">Correspondence</a>	Aggregate	Optional Repeating	Correspondence
<a href="#">RelationshipMgr</a>	Aggregate	Optional	Relationship Manager

		Repeating	
<a href="#">ServicesProvided</a>	C-80	Optional	Services Provided
<a href="#">HouseHoldAddr</a>	Aggregate	Optional	House Hold Address
<a href="#">BankruptcyInd</a>	Boolean	Optional	Bankruptcy Indicator
<a href="#">BankruptcyData</a>	Aggregate	Optional Repeating	Bankruptcy Data
end Elements from PartyInfo			
begin Aggregate			
<a href="#">OrgData</a>	Aggregate	Required	Organization Data
<a href="#">TaxExempt</a>	Open Enum	Optional	Tax Exempt <hr/> Valid values include: Government, NonProfit, NotTaxExempt Default Value: NotTaxExempt
<a href="#">LegalForm</a>	Open Enum	Optional	Legal Form <hr/> Valid values include: Club, LimitedLiabilityPartnership, Partnership, PrivateLimitedCompany, PublicLimitedCompany, Society, SoleTraders
<a href="#">OrgEstablishDt</a>	Date	Optional	Organization Establish Date
<a href="#">NumEmployees</a>	Long	Optional	Number of Employees
<a href="#">FiscalYearEnd</a>	Date	Optional	Fiscal Year End
<a href="#">FinancialReportsURL</a>	URL	Optional	Financial Reports URL
end Aggregate			

---

### Organization Phone Number <OrgPhone>

Phone number of the organization to appear on check (as originator). This can be Paying organization (Payer or Invoice Receiver) or check originator (CSP or CPP) phone number.

Datatype: **Phone Number**

---

### Original Currency Amount <OrigCurAmt>



Indicates the transaction was initiated in a currency other than the default for the account (funding account in the case of transfers or payments). The currency rate, if provided, must be included here.

Extends: [CurAmt](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from CurAmt			
<a href="#">Amt</a>	Decimal	Optional	Amount.
<a href="#">CurCode</a>	Aggregate	Optional	Currency Code
end Elements from CurAmt			
begin Aggregate			
end Aggregate			

---

### Origination Date <OrigDt>

The date on which the customer originated the transaction. For example, a Credit Card purchase occurs on January 25, which is the Transaction Origination, and the Credit Card Account is subsequently debited on January 27, which is the Transaction Posting.

Datatype: **Date**

---

### Originating Bank <OriginatingBank>

The bank that first identified the Party.

Datatype: **C-32**

---

### Originating Branch <OriginatingBranch>

The branch that first identified the Party.

Datatype: **C-32**

---

**Origination Date <OriginationDt>**

Origination Date

Datatype: **Date**

---

**Originator Name <OriginatorName>**

Name of originator of the Transaction or Message.

Datatype: **C-40**

---

**Originator Type <OriginatorType>**

The type of organization that the originator represents. This is usually a coded value representing the industry that the organization operates in. It contains the SIC code or other nationally defined industry value.

Datatype: **Long**

---

**Original Issue Date <OrigIssueDt>**

The date/time that identification was first issued to the customer that is presenting this device. This will normally represent a "customer since" or similar concept.

Datatype: **DateTime**

---

### Overdraft Funding <OverdraftFunding>

Funding account used for overdraft protection.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">AcctKeys</a>	Aggregate	Required	Account Keys Aggregate
<a href="#">FundingPriority</a>	NC-3	Required	Funding Priority. Funding Priority for the account.
end Aggregate			

---

### Override Exception <OverrideException>

Contains message exception that may be overridden with proper credentials. When returned on successful message, indicates override occurred.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">OvrExceptionCode</a>	C-40	Required	Identifies an exception that requires an override or acknowledgement.
<a href="#">OvrExceptionType</a>	Open Enum	Optional	Categorization of the exception code.  Valid values include: Limit, Policy
<a href="#">OvrExceptionSecurityLevel</a>	C-40	Optional Repeating	The minimum or valid security level with authority to override the exception.
<a href="#">OvrExceptionStatInd</a>	Boolean	Optional	Indicates if credentials were authorized to override the exception.
	C-255		

<a href="#">OvrExceptionDesc</a>		Optional	Explanatory text associated with the override exception code.
end Aggregate			

---

### Override Type <OverrideType>

Type of override being performed.

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
Clerk		N
Agent		N
Teller		N
Supervisor		N
Manager		N

---

### Override Amount <OvrAmt>

The amount to override the scheduled automatic payment amount for the next cycle.

Extends: [CurAmt](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from CurAmt			
<a href="#">Amt</a>	Decimal	Optional	Amount.
<a href="#">CurCode</a>	Aggregate	Optional	Currency Code
end Elements from CurAmt			
begin Aggregate			
end Aggregate			

---

**Override Exception Code <OvrExceptionCode>**

Identifies an exception that requires an override or acknowledgement. May be used to identify authorized users.

Datatype: **C-40**

---

**Override Exception Description <OvrExceptionDesc>**

Explanatory text associated with the exception code. The Override Exception Description may be default text or Service Provider specific.

Datatype: **C-255**

---

**Override Exception Security Level <OvrExceptionSecurityLevel>**

The minimum or valid security level with authority to override the exception.

Datatype: **C-40**

---

**Override Exception Status Indicator <OvrExceptionStatInd>**

Indicates if credentials were authorized to override the exception. Default is true, credentials were authorized.

Datatype: **Boolean**

---

### Override Exception Type <OvrExceptionType>

Categorization of the exception code. May be used to identify authorized users.

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
Limit	Value insufficient or exceeded, e.g. exceeded daily limit.	N
Policy	Transaction presented violates a policy of the institution, e.g, business account opening for employee of institution.	N

---

### Over Signature Text <OvrSigText>

Printed information residing above the signature line.

Datatype: **C-40**

---

### Owner Indicator <OwnerInd>

Indicates if the relationship is of the owner or non-owner type.

Datatype: **Boolean**

---

### Percentage of account ownership <OwnerPercent>

Used primarily for Loan Accounts. Usage is a percentage. (e.g. - a value of 5.2 = 5.2%)

Datatype: **Decimal**

---

### Ownership Identifier <Ownership>

Identification of how the account is held (Individual, Joint Tenancy, Joint with Survivorship, Joint And, Custodian, Partnership, Pay On Death, etc.)

Datatype: **C-42**

---

### PageCount Limit Aggregate <PageCountLimit>

This aggregate is used to request specific pages from a multipage document.

Default value is to return all pages in the normal server colating sequence.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">PageType</a>	Open Enum	Optional	Page Type Valid values include: Logical, Physical, ServerDiscretion Default Value: ServerDiscretion
<a href="#">CollatingSequence</a>	Open Enum	Optional	Collating Sequence Valid values include: Even, Normal, Odd, Reverse Default Value: Normal
<a href="#">PageNumRange</a>	Aggregate	Optional Repeating	Page Number Range
end Aggregate			

---

### Page Number Range <PageNumRange>

- If <StartPageNum> but not <EndPageNum> is supplied, then the

response will include all pages that are numbered greater than or equal to <StartPageNum>.

- If <EndPageNum> is supplied but not <StartPageNum>, then the response will include all pages that are numbered smaller than or equal to the <EndPageNum>.
- If both elements are supplied, then the response will include all pages that are numbered between or equal to the two page numbers supplied.
- If a client wishes to request a specific page, then both <StartPageNum> and <EndPageNum> should be supplied and set to the same value.
- If pages are renumbered within a document only the first range that matches the page number range will be included. In this case the low and high section names should be used to request a specific range. Usually only the low section name is required to uniquely identify a page range.
- If only the <StartSectName> is provided then the entire section is returned. This can be used by a server to support selecting individual accounts from a multiple account statement.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">StartSectName</a>	C-40	Optional	Start Section Name
<a href="#">StartPageNum</a>	Long	Optional	Start Page Number
<a href="#">EndSectName</a>	C-40	Optional	End Section Name
<a href="#">EndPageNum</a>	Long	Optional	End Page Number
end Aggregate			

---

### Page Type <PageType>

This element specifies the type of page numbering that the request is based upon. The most common values for this element are physical (a fixed number printed on the bottom of the page) or logical (the page number calculated by the document formatting application). In general, physical page numbers apply to documents that are stored in printed format (i.e., contracts, some statements) and logical page numbers apply to documents that are dynamically generated (i.e., transaction lists, word documents).

Datatype: **Open Enum**

### Enumerated Values



Value	Description	Is default
Physical		N
Logical		N
ServerDiscretion		Y

---

### **Paid Currency Amount <PaidCurAmt>**

Total amount paid, as stated on the invoice. This is the amount already credited towards the invoice.

Extends: [CurAmt](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from CurAmt			
<a href="#">Amt</a>	Decimal	Optional	Amount.
<a href="#">CurCode</a>	Aggregate	Optional	Currency Code
end Elements from CurAmt			
begin Aggregate			
end Aggregate			

---

### **Paid Date <PaidDt>**

Datatype: **Date**

---

### **Paid Date Range <PaidDtRange>**

This aggregate identifies the start date and/or the end date as a selection criterion of paid items.

Extends: [DtRange](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from DtRange			
begin-or		Required	
<a href="#">StartDt</a>	DateTime	Required	Selection Start Date.
<a href="#">EndDt</a>	DateTime	Required	Selection End Date.
end-or			
end Elements from DtRange			
begin Aggregate			
end Aggregate			

---

**ISO 2022 Core Credit Transfer Initiation <pain.001.001.01>**

This is the ISO 2022 Core Credit Transfer Initiation message. It is sent by the initiating party to the forwarding agent or first agent to request movement of cash from a debtor's account to a creditor.

Please refer to the ISO 2022 website, [www.iso20022.org](http://www.iso20022.org), for the Message Definition Report and XML schema for this message.

This aggregate is expected on PmtBatchAdd requests. Trading partners should agree on whether it should be echoed on the corresponding response messages.

Note: ISO 2022 has released a newer version of this message, <pain.001.001.02> Customer Credit Transfer Initiation. It is recommended that the usage of <pain.001.001.02> be implemented.

Datatype: **External Aggregate**

---

**ISO 2022 Customer Credit Transfer Initiation Version 2  
<pain.001.001.02>**

This is the ISO 2022 Customer Credit Transfer Initiation Version 2 message. It is sent by the initiating party to the forwarding agent or the first agent to request movement of cash from a debtor's account to a creditor.

Please refer to the ISO 20022 website, [www.iso20022.org](http://www.iso20022.org), for the Message Definition Report and XML schema for this message.

This aggregate is expected on PmtBatchAdd requests. Trading partners should agree on whether it should be echoed on the corresponding response messages. Responses should also contain the ISO 20022 Payment Status Report message, which is contained within <PmtBatchRec>.

Datatype: **External Aggregate**

---

**ISO 20022 Customer Credit Transfer Initiation Version 3  
<pain.001.001.03>**

ISO 20022 Customer Credit Transfer Initiation Version 3.

Datatype: **External Aggregate**

---

**ISO 20022 Payment Status Report Version 1 <pain.002.001.01>**

This is the ISO 20022 Payment Initiation Status message. It is sent by the first agent or the forwarding agent to the initiating party to inform the initiating party about the status of a payment initiation that the initiating party previously sent to the forwarding agent or first agent.

The usage of the Payment Initiation Status message will always be governed by a bilateral agreement between the agent and customer.

Please refer to the ISO 20022 website, [www.iso20022.org](http://www.iso20022.org), for the Message Definition Report and XML schema for this message.

Datatype: **External Aggregate**

---

**ISO 20022 Payment Status Report Version 2 <pain.002.001.02>**

This is the ISO 20022 Payment Status Report Version 2 message. It is

sent by the first agent or the forwarding agent to the initiating party to inform the initiating party about the status of a payment initiation that the initiating party previously sent to the forwarding agent or first agent.

The usage of the Payment Status Report message will always be governed by a bilateral agreement between the agent and customer.

Please refer to the ISO 20022 website, [www.iso20022.org](http://www.iso20022.org), for the Message Definition Report and XML schema for this message.

Datatype: **External Aggregate**

---

### **ISO 20022 Payment Status Report Version 3 <pain.002.001.03>**

This is the ISO 20022 Payment Status Report Version 3 message. It is sent by the first agent or the forwarding agent to the initiating party to inform the initiating party about the status of a payment initiation that the initiating party previously sent to the forwarding agent or first agent.

The usage of the Payment Status Report message will always be governed by a bilateral agreement between the agent and customer.

Please refer to the ISO 20022 website, [www.iso20022.org](http://www.iso20022.org), for the Message Definition Report and XML schema for this message.

Datatype: **External Aggregate**

---

### **ISO 20022 Payment Cancellation Request Version 1 <pain.006.001.01>**

This is the ISO 20022 Payment Cancellation Request message. It is sent by the initiating party to the forwarding agent or the first agent to consider cancellation of a payment initiation previously sent by the initiating party. The usage of the Payment Cancellation Request message will always be governed by a bilateral agreement between the agent and the customer.

Please refer to the ISO 20022 website, [www.iso20022.org](http://www.iso20022.org), for the Message Definition Report and XML schema for this message.

This aggregate is expected on Payment Batch Cancellation requests. Trading partners should agree on whether it should be echoed on the corresponding response messages. Responses should also contain

the ISO 20022 Payment Status Report message, which is contained within <PmtBatchRec>.

Datatype: **External Aggregate**

---

**ISO 20022 Customer Payment Reversal Version 1 <pain.007.001.01>**

This is the ISO 20022 Payment Reversal Request message. It is sent by the initiating party to the forwarding agent or the first agent to consider reversal of a payment initiation previously sent by the initiating party. The usage of the Payment Reversal Request message will always be governed by a bilateral agreement between the agent and the customer.

Please refer to the ISO 20022 website, [www.iso20022.org](http://www.iso20022.org), for the Message Definition Report and XML schema for this message.

This aggregate is expected on Payment Batch Reversal requests. Trading partners should agree on whether it should be echoed on the corresponding response messages. Responses should also contain the ISO 20022 Payment Status Report message, which is contained within <PmtBatchRec>.

Datatype: **External Aggregate**

---

**ISO 20022 Customer Payment Reversal Version 2 <pain.007.001.02>**

ISO 20022 Customer Payment Reversal Version 2.

Datatype: **External Aggregate**

---

**ISO 20022 Customer Direct Debit Initiation Version 1  
<pain.008.001.01>**

This is the ISO 20022 Customer Direct Debit Initiation message. It is sent by the initiating party to the forwarding agent or the first agent to

request movement of cash from a debtor's account to a creditor.

Please refer to the ISO 20022 website, [www.iso20022.org](http://www.iso20022.org), for the Message Definition Report and XML schema for this message.

This aggregate is expected on PmtBatchAdd requests. Trading partners should agree on whether it should be echoed on the corresponding response messages. Responses should also contain the ISO 20022 Payment Status Report message, which is contained within <PmtBatchRec>.

Datatype: **External Aggregate**

---

### ISO 20022 Customer Direct Debit Initiation Version 2 <pain.008.001.02>

ISO 20022 Customer Direct Debit Initiation Version 2.

Datatype: **External Aggregate**

---

### Parent Account Keys <ParentAcctKeys>

The parent account in a corporate relationship. This is only valid for child accounts.

Extends: [AcctKeys](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from AcctKeys			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
begin-xor		Required	
<a href="#">AcctId</a>	Identifier	Required	Account Identifier
begin-block		Optional	
begin-xor		Optional	
<a href="#">BBAN</a>	NC-30	Required	Basic Bank Account Identifier
<a href="#">IBAN</a>	NC-34	Required	International Bank Account Number

<a href="#">UPIC</a>	NC-17	Required	Universal Payment Identification Code
<a href="#">CLABE</a>	C-18	Required	CLABE
<a href="#">CardMagData</a>	Aggregate	Required	Card Magnetic Stripe Data
<a href="#">CardKeys</a>	Aggregate	Required	Card Keys Aggregate
<a href="#">CardChipData</a>	Aggregate	Required	Card Chip Data
<a href="#">AcctIdent</a>	Aggregate	Required	Account Identifier Aggregate
end-xor			
<a href="#">AcctType</a>	Aggregate	Optional	Account Type
<a href="#">CurCode</a>	Aggregate	Optional	Currency Code
<a href="#">FIIdentType</a>	Open Enum	Optional	Financial Institution Identifier Type Valid values include: ABA, CHAPS, CHIPS, FedWire, SortCode, SWIFT
<a href="#">FIIdent</a>	NC-34	Optional	Financial Institution Identifier
<a href="#">BranchIdent</a>	NC-22	Optional	Branch Identifier
end-block			
end-xor			
end Elements from AcctKeys			
begin Aggregate			
end Aggregate			

## Party Account Relationship Add Message <PartyAcctRelAddRq>

Party Account Relationship Add Message

See the matching response message [PartyAcctRelAddRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">PartyAcctRelInfo</a>	Aggregate	Required	Party Account Relationship Information Aggregate
end Aggregate			

---

## Party Account Relationship Add Response <PartyAcctRelAddRs>

Party Account Relationship Add Response

See the matching request message [PartyAcctRelAddRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">PartyAcctRelRec</a>	Aggregate	Required	Party Account Relationship Record
<a href="#">PartyAcctRelStatusRec</a>	Aggregate	Required	Party Account Relationship Status Record
end-xor			
end-block			
end Aggregate			

---

## Party Account Relationship Advise Message <PartyAcctRelAdviseRq>

Party Account Relationship Advise Message

See the matching response message [PartyAcctRelAdviseRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier



<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
begin-xor		Required	
<a href="#">PartyAcctRelRec</a>	Aggregate	Required	Party Account Relationship Record
<a href="#">PartyAcctRelStatusRec</a>	Aggregate	Required	Party Account Relationship Status Record
end-xor			
end Aggregate			

---

### Party Account Relationship Advise Response <PartyAcctRelAdviseRs>

Party Account Relationship Advise Response

See the matching request message [PartyAcctRelAdviseRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">PartyAcctRelRec</a>	Aggregate	Required	Party Account Relationship Record
<a href="#">PartyAcctRelStatusRec</a>	Aggregate	Required	Party Account Relationship Status Record
end-xor			
end-block			
end Aggregate			

---

### Party Account Relationship Audit Request <PartyAcctRelAudRq>

Party Account Relationship Audit Request

See the matching response message [PartyAcctRelAudRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
<a href="#">DtRange</a>	Aggregate	Optional	Date Range
<a href="#">Method</a>	Closed Enum	Optional Repeating	Method Valid values are limited to: Add, Advise, AuthMod, Can, Del, Mod, StatusMod
<a href="#">PartyAcctRelKeys</a>	Aggregate	Optional Repeating	Party Account Relationship Keys Aggregate
end Aggregate			

### Party Account Relationship Audit Response <PartyAcctRelAudRs>

Party Account Relationship Audit Response

See the matching request message [PartyAcctRelAudRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">PartyAcctRelRsMsg</a>	Aggregate	Optional Repeating	Party Account Relationship Response Messages Aggregate
end-block			

end Aggregate

### Party Account Relationship Data <PartyAcctRelData>

Party Account Relationship Data

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">PartyAcctRelType</a>	Open Enum	Required	Party Account Relationship Type  Valid values include: Administrator, Comaker, Custodian, DoingBusinessAs, Executor, Guarantor, Guardian, Individual, IndividualWithRights, JointTenancy, JointTenantsInCommon, JointWithRights, MultipleSigner, Payee, PayOnDeath, PowerOfAttorney, PrimaryContact, TaxResponsible, Trustee
<a href="#">PartyAcctRelDesc</a>	C-80	Optional	Party Account Relationship Description
end Aggregate			

### Party Account Relationship Delete Request <PartyAcctRelDelRq>

Party Account Relationship Delete Request

See the matching response message [PartyAcctRelDelRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">PartyAcctRelKeys</a>	Aggregate	Required	Party Account Relationship Keys Aggregate
end Aggregate			

---

## Party Account Relationship Delete Response <PartyAcctRelDelRs>

Party Account Relationship Delete Response

See the matching request message [PartyAcctRelDelRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">PartyAcctRelRec</a>	Aggregate	Required	Party Account Relationship Record
<a href="#">PartyAcctRelStatusRec</a>	Aggregate	Required	Party Account Relationship Status Record
end-xor			
end-block			
end Aggregate			

---

## Party Account Relationship Description <PartyAcctRelDesc>

Party Account Relationship Description

Datatype: **C-80**

---

## Party Account Relationship Environment Aggregate <PartyAcctRelEnvr>

## Party Account Relationship Environment Aggregate

Extends: [BaseEnvr](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseEnvr			
<a href="#">CreatedDt</a>	DateTime	Required	Created Date/Time. The date/time the object was created.
<a href="#">CreateRefIdent</a>	NC-36	Optional	An identifier used to uniquely identify the creation of this object to the system that created the object. This will usually be a link to reference information used in creating the object.
<a href="#">ClientCreatedDt</a>	DateTime	Optional	The created date/time as reported by the client. This can vary from the object creation date/time due to time zone differences, communication delays, etc
<a href="#">ClientBusinessDt</a>	DateTime	Optional	The date/time that the client recorded this object for operational purposes. This date/time will often be used to manage the availability of information or funds.
<a href="#">LastUpdateDt</a>	DateTime	Optional	Last update Date/Time. The date/time the object was created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LastUpdateRqUID</a>	UUID	Optional	Last update RqUID. The RqUID from the message that resulted in th object being created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LoginName</a>	C-40	Optional	The login name (or Id) of the individual that authorized this object to be created. This is typically used when the object is created on behalf of its owner by someone who is not normally represented as a Party (i.e., an employee or agent).
<a href="#">PartyKeys</a>	Aggregate	Optional	Reference to the Party that this object is owned by or authorized by.
<a href="#">CardKeys</a>	Aggregate	Optional	This is dependent on Card proposal. Currently this is implemented as the CardLogicalData aggregate.
<a href="#">PassbkKeys</a>	Aggregate	Optional	Currently PassbkAcceptData.
<a href="#">NetworkTrnData</a>	Aggregate	Optional	Network Transaction Information. Identification and location of the

			terminal from which the message originates.
<a href="#">ServerTerminalSeqNum</a>	NC-36	Optional	Server Terminal Sequence Number. A terminal sequence number generated by the server to identify this object. This number is used in ATM and POS environments to uniquely identify transactions (with terminal name and date) for transaction management.
<a href="#">PointOfServiceData</a>	Aggregate	Optional	The Point of Service Data. This aggregate contains information about the environment in which this message originated.
<a href="#">ClientTerminalSeqNum</a>	NC-36	Optional	Client Terminal Sequence Number. A terminal sequence number generated by the client to identify this object. This number is used in ATM, POS, Branch, Call Center and Teller environments to uniquely identify transactions at the client (with terminal name and date). This number is often required when requesting supporting documentation related to a customer transaction.
end Elements from BaseEnvr			
begin Aggregate			
end Aggregate			

---

### Party Account Relationship Identifier <PartyAcctRelId>

Party Account Relationship Identifier

Datatype: **Identifier**

---

### Party Account Relationship Information Aggregate <PartyAcctRelInfo>

Party Account Relationship Information Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
-----	------	-------	---------------------------

begin Aggregate			
<a href="#">PartyRef</a>	Aggregate	Required	Party Reference Aggregate
<a href="#">AcctRef</a>	Aggregate	Optional	Account Reference Aggregate
<a href="#">PartyAcctRelData</a>	Aggregate	Required Repeating	Party Account Relationship Data
<a href="#">OwnerPercent</a>	Decimal	Optional	Percentage of account ownership
<a href="#">OwnerInd</a>	Boolean	Optional	Owner Indicator
<a href="#">Nickname</a>	C-40	Optional	Nickname
end Aggregate			

---

### Party Account Relationship Inquiry Request <PartyAcctRelInqRq>

Party Account Relationship Inquiry Request

See the matching response message [PartyAcctRelInqRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">DocCtrlIn</a>	Aggregate	Optional	Document Control Input
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
begin-xor		Optional Repeating	
<a href="#">PartyAcctRelSel</a>	Aggregate	Required	Party Account Relationship Selection Aggregate
<a href="#">RecSelect</a>	IfxPath	Required	Record Select
end-xor			
end Aggregate			

---

### Party Account Relationship Inquiry Response <PartyAcctRelInqRs>

Party Account Relationship Inquiry Response

See the matching request message [PartyAcctRelInqRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">DocCtrlOut</a>	Aggregate	Optional	Document Control Output
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">PartyAcctRelRec</a>	Aggregate	Required Repeating	Party Account Relationship Record
end-block			
end Aggregate			

### Party Account Relationship Keys Aggregate <PartyAcctRelKeys>

Party Account Relationship Keys Aggregate

Extends: [BaseKeys](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseKeys			
end Elements from BaseKeys			
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
begin-xor		Required	
<a href="#">PartyAcctRelId</a>	Identifier	Required	Party Account Relationship Identifier
begin-block		Required	
<a href="#">PartyKeys</a>	Aggregate	Required	Party Keys Aggregate
<a href="#">AcctKeys</a>	Aggregate	Required	Account Keys Aggregate
end-block			



end-xor
end Aggregate

## Party Account Relationship Modify Request <PartyAcctRelModRq>

Party Account Relationship Modify Request

See the matching response message [PartyAcctRelModRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">PartyAcctRelKeys</a>	Aggregate	Required	Party Account Relationship Keys Aggregate
begin-block		Required Repeating	
<a href="#">PartyAcctRelInfo</a>	Aggregate	Required	Party Account Relationship Information Aggregate
begin-xor		Optional Repeating	
<a href="#">DelElements</a>	lfxPath	Required	An lfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to delete. It is an error if one attempts to delete Required fields.
<a href="#">UpdElements</a>	lfxPath	Required	An lfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to update. The new value of the updated element is in the accompanying xxxInfo aggregate.
<a href="#">NewElements</a>	lfxPath	Required	An lfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to add. The new value of the new elements is in the accompanying xxxInfo aggregate.
end-xor			
end-block			
end Aggregate			

---

## Party Account Relationship Modify Response <PartyAcctRelModRs>

Party Account Relationship Modify Response

See the matching request message [PartyAcctRelModRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">PartyAcctRelRec</a>	Aggregate	Required	Party Account Relationship Record
<a href="#">PartyAcctRelStatusRec</a>	Aggregate	Required	Party Account Relationship Status Record
end-xor			
end-block			
end Aggregate			

---

## Party Account Relationship Record <PartyAcctRelRec>

Party Account Relationship Record

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">PartyAcctRelId</a>	Identifier	Required	Party Account Relationship Identifier
<a href="#">PartyAcctRelInfo</a>	Aggregate	Required	Party Account Relationship Information Aggregate
<a href="#">PartyAcctRelEnvr</a>	Aggregate	Optional	Party Account Relationship Environment

			Aggregate
<a href="#">PartyAcctRelStatus</a>	Aggregate	Required	Party Account Relationship Status Aggregate
end Aggregate			

---

### Party Account Relationship Reference Aggregate <PartyAcctRelRef>

Party Account Relationship Reference Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">PartyAcctRelKeys</a>	Aggregate	Required	Party Account Relationship Keys Aggregate
<a href="#">PartyAcctRelRec</a>	Aggregate	Required	Party Account Relationship Record
<a href="#">PartyAcctRelInfo</a>	Aggregate	Required	Party Account Relationship Information Aggregate
end-xor			
end Aggregate			

---

### Party Account Relationship Reversal Request <PartyAcctRelRevRq>

Party Account Relationship Reversal Request

See the matching response message [PartyAcctRelRevRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header

<a href="#">RevReasonCode</a>	Aggregate	Required	Reversal Reason Code
<a href="#">Desc</a>	C-80	Optional	Description
<a href="#">PartyAcctRelRqMsg</a>	Aggregate	Required	Party Account Relationship Request Messages Aggregate
end Aggregate			

---

### Party Account Relationship Reversal Response <PartyAcctRelRevRs>

Party Account Relationship Reversal Response

See the matching request message [PartyAcctRelRevRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
end Aggregate			

---

### Party Account Relationship Request Messages Aggregate <PartyAcctRelRqMsg>

Party Account Relationship Request Messages Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">PartyAcctRelAddRq</a>	Aggregate	Required	Party Account Relationship Add Message
<a href="#">PartyAcctRelModRq</a>	Aggregate	Required	Party Account Relationship Modify Request

<a href="#">PartyAcctRelDelRq</a>	Aggregate	Required	Party Account Relationship Delete Request
<a href="#">PartyAcctRelInqRq</a>	Aggregate	Required	Party Account Relationship Inquiry Request
<a href="#">PartyAcctRelAdviseRq</a>	Aggregate	Required	Party Account Relationship Advise Message
<a href="#">PartyAcctRelAudRq</a>	Aggregate	Required	Party Account Relationship Audit Request
<a href="#">PartyAcctRelSyncRq</a>	Aggregate	Required	Party Account Relationship Sync Request
<a href="#">PartyAcctRelStatusModRq</a>	Aggregate	Required	Party Account Relationship Status Modify Request
<a href="#">PartyAcctRelStatusInqRq</a>	Aggregate	Required	Party Account Relationship Status Inquiry Request
<a href="#">RevRqUID</a>	UUID	Required	Reversal Request Unique ID
end-xor			
end Aggregate			

---

## Party Account Relationship Response Messages Aggregate <PartyAcctRelRsMsg>

Party Account Relationship Response Messages Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">MsgRecDt</a>	Timestamp	Optional	Audit Record Creation Date
begin-xor		Required	
<a href="#">PartyAcctRelAddRs</a>	Aggregate	Required	Party Account Relationship Add Response
<a href="#">PartyAcctRelModRs</a>	Aggregate	Required	Party Account Relationship Modify Response
<a href="#">PartyAcctRelDelRs</a>	Aggregate	Required	Party Account Relationship Delete Response
<a href="#">PartyAcctRelRevRs</a>	Aggregate	Required	Party Account Relationship Reversal Response
<a href="#">PartyAcctRelInqRs</a>	Aggregate	Required	Party Account Relationship Inquiry Response
<a href="#">PartyAcctRelAdviseRs</a>	Aggregate	Required	Party Account Relationship Advise Response

<a href="#">PartyAcctRelStatusModRs</a>	Aggregate	Required	Party Account Relationship Status Modify Response
<a href="#">PartyAcctRelStatusInqRs</a>	Aggregate	Required	Party Account Relationship Status Inquiry Response
end-xor			
end Aggregate			

## Party Account Relationship Selection Aggregate <PartyAcctRelSel>

Party Account Relationship Selection Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required Repeating	
<a href="#">PartyAcctRelKeys</a>	Aggregate	Required	Party Account Relationship Keys Aggregate
begin-block		Required	
<a href="#">PartyKeys</a>	Aggregate	Optional	Party Keys Aggregate
begin-xor		Optional	
<a href="#">AcctKeys</a>	Aggregate	Required	Account Keys Aggregate
<a href="#">AcctType</a>	Aggregate	Required	Account Type
end-xor			
<a href="#">PartyAcctRelType</a>	Open Enum	Optional	Party Account Relationship Type  Valid values include: Administrator, Comaker, Custodian, DoingBusinessAs, Executor, Guarantor, Guardian, Individual, IndividualWithRights, JointTenancy, JointTenantsInCommon, JointWithRights, MultipleSigner, Payee, PayOnDeath, PowerOfAttorney, PrimaryContact, TaxResponsible, Trustee
end-block			
end-xor			
end Aggregate			

---

**Party Account Relationship Status Aggregate <PartyAcctRelStatus>**

Party Account Relationship Status Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">PartyAcctRelStatusCode</a>	Open Enum	Required	Party Account Relationship Status Code <hr/> Valid values include: Deleted, Valid
<a href="#">StatusDesc</a>	C-255	Optional	Status Description
<a href="#">EffDt</a>	DateTime	Optional	Effective Date Time
<a href="#">StatusModBy</a>	Open Enum	Optional	Status Modified By <hr/> Valid values include: BPP, BPPSR, BSP, BSPSR, CPP, CPPSR, CSP, CSPSR, Customer, FI, PSP
end Aggregate			

---

**Party Account Relationship Status Code <PartyAcctRelStatusCode>**

Party Account Relationship Status Code

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Valid		N
Deleted		N

---

**Party Account Relationship Status Inquiry Request  
<PartyAcctRelStatusInqRq>**

## Party Account Relationship Status Inquiry Request

See the matching response message [PartyAcctRelStatusInqRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
begin-xor		Optional Repeating	
<a href="#">PartyAcctRelSel</a>	Aggregate	Required	Party Account Relationship Selection Aggregate
<a href="#">RecSelect</a>	IfxPath	Required	Record Select
end-xor			
end Aggregate			

---

## Party Account Relationship Status Inquiry Response <PartyAcctRelStatusInqRs>

Party Account Relationship Status Inquiry Response

See the matching request message [PartyAcctRelStatusInqRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">PartyAcctRelStatusRec</a>	Aggregate	Optional Repeating	Party Account Relationship Status Record



end-block
end Aggregate

---

**Party Account Relationship Status Modify Request**  
**<PartyAcctRelStatusModRq>**

Party Account Relationship Status Modify Request

See the matching response message [PartyAcctRelStatusModRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">PartyAcctRelKeys</a>	Aggregate	Required	Party Account Relationship Keys Aggregate
<a href="#">PartyAcctRelStatus</a>	Aggregate	Required	Party Account Relationship Status Aggregate
end Aggregate			

---

**Party Account Relationship Status Modify Response**  
**<PartyAcctRelStatusModRs>**

Party Account Relationship Status Modify Response

See the matching request message [PartyAcctRelStatusModRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end Aggregate			

end-block			
begin-block		Optional	required if message is successful
<a href="#">PartyAcctRelStatusRec</a>	Aggregate	Required	Party Account Relationship Status Record
end-block			
end Aggregate			

---

### Party Account Relationship Status Record <PartyAcctRelStatusRec>

Party Account Relationship Status Record

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">PartyAcctRelId</a>	Identifier	Required	Party Account Relationship Identifier
<a href="#">PartyAcctRelStatus</a>	Aggregate	Required	Party Account Relationship Status Aggregate
end Aggregate			

---

### Party Account Relationship Sync Request <PartyAcctRelSyncRq>

Party Account Relationship Sync Request

See the matching response message [PartyAcctRelSyncRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
<a href="#">PartyAcctRelKeys</a>	Aggregate	Optional Repeating	Party Account Relationship Keys Aggregate

end Aggregate

## Party Account Relationship Sync Response <PartyAcctRelSyncRs>

Party Account Relationship Sync Response

See the matching request message [PartyAcctRelSyncRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">PartyAcctRelRsMsg</a>	Aggregate	Optional Repeating	Party Account Relationship Response Messages Aggregate
end-block			
end Aggregate			

## Party Account Relationship Type <PartyAcctRelType>

Party Account Relationship Type

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
TaxResponsible		N
PrimaryContact		N
DoingBusinessAs		N
Individual		N

IndividualWithRights		N
JointTenancy		N
JointTenantsInCommon		N
JointWithRights		N
MultipleSigner		N
Custodian		N
Guardian		N
Executor		N
Administrator		N
Guarantor		N
Comaker		N
Trustee		N
Payee		N
PowerOfAttorney		N
PayOnDeath		N

---

### Party Request Message <PartyAddRq>

See the matching response message [PartyAddRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">PartyInfo</a>	Abstract Aggregate	Required	Party Information Aggregate <b>Valid Aggregates are:</b> OrgPartyInfo PersonPartyInfo
<a href="#">PartyAuth</a>	Aggregate	Optional	Party Authorization and/or Authentication Data
end Aggregate			

---

### Party Response Message <PartyAddRs>

See the matching request message [PartyAddRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">PartyRec</a>	Aggregate	Required	Party Record Aggregate
<a href="#">PartyStatusRec</a>	Aggregate	Required	Party Status Record Aggregate
end-xor			
end-block			
end Aggregate			

---

**Party Request Message <PartyAdviseRq>**

See the matching response message [PartyAdviseRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
begin-xor		Required	
<a href="#">PartyRec</a>	Aggregate	Required	Party Record Aggregate
<a href="#">PartyStatusRec</a>	Aggregate	Required	Party Status Record Aggregate
<a href="#">PartyAuthRec</a>	Aggregate	Required	Party Authorization Record
end-xor			
end Aggregate			

---

## Party Response Message <PartyAdviseRs>

See the matching request message [PartyAdviseRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">PartyRec</a>	Aggregate	Required	Party Record Aggregate
<a href="#">PartyStatusRec</a>	Aggregate	Required	Party Status Record Aggregate
<a href="#">PartyAuthRec</a>	Aggregate	Required	Party Authorization Record
end-xor			
end-block			
end Aggregate			

---

## Party Affiliate Data <PartyAffiliateData>

Aggregate stores the personal and professional affiliations of the Party where the affiliation is not a Party of the financial institution (FI) When the affiliation is a Party of the FI then the PartyPartyRel object may be used.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">OrgName</a>	Aggregate	Required	Organization Name
<a href="#">SocialAffiliatIdent</a>	NC-36	Optional	Social Affiliate Identifier
<a href="#">SocialOrgType</a>	C-40	Optional	Social Organization Type
<a href="#">PositionHeld</a>	C-40	Optional	Position Held

<a href="#">RelEstablishedDt</a>	Date	Optional	Relationship Established Date
end Aggregate			

---

### Party Request Message <PartyAudRq>

See the matching response message [PartyAudRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
<a href="#">DtRange</a>	Aggregate	Optional	Date Range
<a href="#">Method</a>	Closed Enum	Optional Repeating	Method  Valid values are limited to: Add, Advise, AuthMod, Can, Del, Mod, StatusMod
<a href="#">PartyKeys</a>	Aggregate	Optional Repeating	Party Keys Aggregate
end Aggregate			

---

### Party Response Message <PartyAudRs>

See the matching request message [PartyAudRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier

<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">PartyRsMsg</a>	Aggregate	Optional Repeating	PartyResponse Message Record Aggregate
end-block			
end Aggregate			

---

### Party Authorization and/or Authentication Data <PartyAuth>

Party Authorization and/or Authentication Data

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SecToken</a>	Abstract Aggregate	Required Repeating	<b>Valid Aggregates are:</b> SecTokenCard SecTokenCert SecTokenICC SecTokenIssuedIdent Security Token SecTokenKey SecTokenLogin SecTokenMagCard SecTokenObject SecTokenParty SecTokenSecretAnswer
end Aggregate			

---

### Party Authorization Inquiry Request <PartyAuthInqRq>

Party Authorization Inquiry Request

See the matching response message [PartyAuthInqRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes



begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
begin-xor		Optional Repeating	
<a href="#">PartySel</a>	Aggregate	Required	Party Selection Aggregate
<a href="#">RecSelect</a>	IfxPath	Required	Record Select
end-xor			
end Aggregate			

---

### Party Authorization Inquiry Response <PartyAuthInqRs>

Party Authorization Inquiry Response

See the matching request message [PartyAuthInqRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">PartyAuthRec</a>	Aggregate	Optional Repeating	Party Authorization Record
end-block			
end Aggregate			

---

### Party Authorization Modify Request <PartyAuthModRq>

Party Authorization Modify Request

See the matching response message [PartyAuthModRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">PartyKeys</a>	Aggregate	Optional	Party Keys Aggregate
<a href="#">PartyAuth</a>	Aggregate	Required	Party Authorization and/or Authentication Data
end Aggregate			

---

### Party Authorization Modify Response <PartyAuthModRs>

Party Authorization Modify Response

See the matching request message [PartyAuthModRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">PartyAuthRec</a>	Aggregate	Required	Party Authorization Record
end-block			
end Aggregate			

---

### Party Authorization Record <PartyAuthRec>

## Party Authorization Record

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">PartyId</a>	Identifier	Required	Party Identifier
<a href="#">PartyAuth</a>	Aggregate	Required	Party Authorization and/or Authentication Data
end Aggregate			

---

## Party Card Relationship Add Message <PartyCardRelAddRq>

Party Card Relationship Add Message

See the matching response message [PartyCardRelAddRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">PartyCardRelInfo</a>	Aggregate	Required	Party Card Relationship Information Aggregate
end Aggregate			

---

## Party Card Relationship Add Response <PartyCardRelAddRs>

Party Card Relationship Add Response

See the matching request message [PartyCardRelAddRq](#)

Datatype: **Aggregate**

--	--	--	--

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">PartyCardRelRec</a>	Aggregate	Required	Party Card Relationship Record
<a href="#">PartyCardRelStatusRec</a>	Aggregate	Required	Party Card Relationship Status Record
end-xor			
end-block			
end Aggregate			

---

### Party Card Relationship Advise Message <PartyCardRelAdviseRq>

Party Card Relationship Advise Message

See the matching response message [PartyCardRelAdviseRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
begin-xor		Required	
<a href="#">PartyCardRelRec</a>	Aggregate	Required	Party Card Relationship Record
<a href="#">PartyCardRelStatusRec</a>	Aggregate	Required	Party Card Relationship Status Record
end-xor			
end Aggregate			

---

### Party Card Relationship Advise Response <PartyCardRelAdviseRs>

## Party Card Relationship Advise Response

See the matching request message [PartyCardRelAdviseRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">PartyCardRelRec</a>	Aggregate	Required	Party Card Relationship Record
<a href="#">PartyCardRelStatusRec</a>	Aggregate	Required	Party Card Relationship Status Record
end-xor			
end-block			
end Aggregate			

---

## Party Card Relationship Audit Request <PartyCardRelAudRq>

Party Card Relationship Audit Request

See the matching response message [PartyCardRelAudRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
<a href="#">DtRange</a>	Aggregate	Optional	Date Range
<a href="#">Method</a>	Closed Enum	Optional Repeating	Method Valid values are limited to: Add, Advise,

			AuthMod, Can, Del, Mod, StatusMod
<a href="#">PartyCardRelKeys</a>	Aggregate	Optional Repeating	Party Card Relationship Keys Aggregate
end Aggregate			

---

### Party Card Relationship Audit Response <PartyCardRelAudRs>

Party Card Relationship Audit Response

See the matching request message [PartyCardRelAudRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">PartyCardRelRsMsg</a>	Aggregate	Optional Repeating	Party Card Relationship Response Messages Aggregate
end-block			
end Aggregate			

---

### Party Card Relationship Delete Request <PartyCardRelDelRq>

Party Card Relationship Delete Request

See the matching response message [PartyCardRelDelRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes

begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">PartyCardRelKeys</a>	Aggregate	Required	Party Card Relationship Keys Aggregate
end Aggregate			

---

### Party Card Relationship Delete Response <PartyCardRelDelRs>

Party Card Relationship Delete Response

See the matching request message [PartyCardRelDelRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">PartyCardRelRec</a>	Aggregate	Required	Party Card Relationship Record
<a href="#">PartyCardRelStatusRec</a>	Aggregate	Required	Party Card Relationship Status Record
end-xor			
end-block			
end Aggregate			

---

### Party Card Relationship Environment Aggregate <PartyCardRelEnvr>

Party Card Relationship Environment Aggregate

Extends: [BaseEnvr](#)

Datatype: **Aggregate**

---

Tag	Type	Usage	Description/Context notes
begin Elements from BaseEnvr			
<a href="#">CreatedDt</a>	DateTime	Required	Created Date/Time. The date/time the object was created.
<a href="#">CreateRefIdent</a>	NC-36	Optional	An identifier used to uniquely identify the creation of this object to the system that created the object. This will usually be a link to reference information used in creating the object.
<a href="#">ClientCreateDt</a>	DateTime	Optional	The created date/time as reported by the client. This can vary from the object creation date/time due to time zone differences, communication delays, etc
<a href="#">ClientBusinessDt</a>	DateTime	Optional	The date/time that the client recorded this object for operational purposes. This date/time will often be used to manage the availability of information or funds.
<a href="#">LastUpdateDt</a>	DateTime	Optional	Last update Date/Time. The date/time the object was created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LastUpdateRqUID</a>	UUID	Optional	Last update RqUID. The RqUID from the message that resulted in the object being created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LoginName</a>	C-40	Optional	The login name (or Id) of the individual that authorized this object to be created. This is typically used when the object is created on behalf of its owner by someone who is not normally represented as a Party (i.e., an employee or agent).
<a href="#">PartyKeys</a>	Aggregate	Optional	Reference to the Party that this object is owned by or authorized by.
<a href="#">CardKeys</a>	Aggregate	Optional	This is dependent on Card proposal. Currently this is implemented as the CardLogicalData aggregate.
<a href="#">PassbkKeys</a>	Aggregate	Optional	Currently PassbkAcceptData.
<a href="#">NetworkTrnData</a>	Aggregate	Optional	Network Transaction Information. Identification and location of the terminal from which the message originates.
<a href="#">ServerTerminalSeqNum</a>	NC-36	Optional	Server Terminal Sequence Number. A terminal sequence number generated by the server to identify this object. This number is used in ATM and POS environments to uniquely identify



			transactions (with terminal name and date) for transaction management.
<a href="#">PointOfServiceData</a>	Aggregate	Optional	The Point of Service Data. This aggregate contains information about the environment in which this message originated.
<a href="#">ClientTerminalSeqNum</a>	NC-36	Optional	Client Terminal Sequence Number. A terminal sequence number generated by the client to identify this object. This number is used in ATM, POS, Branch, Call Center and Teller environments to uniquely identify transactions at the client (with terminal name and date). This number is often required when requesting supporting documentation related to a customer transaction.
end Elements from BaseEnvr			
begin Aggregate			
end Aggregate			

---

### Party Card Relationship Identifier <PartyCardRelId>

Party Card Relationship Identifier

Datatype: **Identifier**

---

### Party Card Relationship Information Aggregate <PartyCardRelInfo>

Party Card Relationship Information Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">PartyRef</a>	Aggregate	Required	Party Reference Aggregate
<a href="#">CardRef</a>	Aggregate	Optional	Card Reference Aggregate
<a href="#">PartyCardRelType</a>	Open Enum	Required	Party Card Relationship Type  Valid values include: Additional, Primary,

			Secondary
<a href="#">Nickname</a>	C-40	Optional	Used to represent a card nickname applied by the customer of FI.
<a href="#">RelEstablishDt</a>	DateTime	Optional	Indicates when party was associated with the card.
<a href="#">CardPref</a>	Aggregate	Optional	Overrides the preferences in the CardPref in the Card Object.
end Aggregate			

---

### Party Card Relationship Inquiry Request <PartyCardRelInqRq>

Party Card Relationship Inquiry Request

See the matching response message [PartyCardRelInqRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">DocCtrlIn</a>	Aggregate	Optional	Document Control Input
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
begin-xor		Optional Repeating	
<a href="#">PartyCardRelSel</a>	Aggregate	Required	Party Card Relationship Selection Aggregate
<a href="#">RecSelect</a>	IfxPath	Required	Record Select
end-xor			
end Aggregate			

---

### Party Card Relationship Inquiry Response <PartyCardRelInqRs>

Party Card Relationship Inquiry Response

See the matching request message [PartyCardRelInqRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">DocCtrlOut</a>	Aggregate	Optional	Document Control Output
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">PartyCardRelRec</a>	Aggregate	Required Repeating	Party Card Relationship Record
end-block			
end Aggregate			

---

**Party Card Relationship Keys Aggregate <PartyCardRelKeys>**

Party Card Relationship Keys Aggregate

Extends: [BaseKeys](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseKeys			
end Elements from BaseKeys			
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
begin-xor		Required	
<a href="#">PartyCardRelId</a>	Identifier	Required	Party Card Relationship Identifier
begin-block		Required	
<a href="#">PartyKeys</a>	Aggregate	Required	Party Keys Aggregate
<a href="#">CardKeys</a>	Aggregate	Required	Card Keys Aggregate
end-block			
end-xor			

end Aggregate

## Party Card Relationship Modify Request <PartyCardRelModRq>

Party Card Relationship Modify Request

See the matching response message [PartyCardRelModRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">PartyCardRelKeys</a>	Aggregate	Required	Party Card Relationship Keys Aggregate
begin-block		Required Repeating	
<a href="#">PartyCardRelInfo</a>	Aggregate	Required	Party Card Relationship Information Aggregate
begin-xor		Optional Repeating	
<a href="#">DelElements</a>	lfxPath	Required	An lfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to delete. It is an error if one attempts to delete Required fields.
<a href="#">UpdElements</a>	lfxPath	Required	An lfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to update. The new value of the updated element is in the accompanying xxxInfo aggregate.
<a href="#">NewElements</a>	lfxPath	Required	An lfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to add. The new value of the new elements is in the accompanying xxxInfo aggregate.
end-xor			
end-block			
end Aggregate			

## Party Card Relationship Modify Response <PartyCardRelModRs>

Party Card Relationship Modify Response

See the matching request message [PartyCardRelModRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">PartyCardRelRec</a>	Aggregate	Required	Party Card Relationship Record
<a href="#">PartyCardRelStatusRec</a>	Aggregate	Required	Party Card Relationship Status Record
end-xor			
end-block			
end Aggregate			

---

## Party Card Relationship Record <PartyCardRelRec>

Party Card Relationship Record

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">PartyCardRelId</a>	Identifier	Required	Party Card Relationship Identifier
<a href="#">PartyCardRelInfo</a>	Aggregate	Required	Party Card Relationship Information Aggregate
<a href="#">PartyCardRelEnvr</a>	Aggregate	Optional	Party Card Relationship Environment Aggregate
<a href="#">PartyCardRelStatus</a>	Aggregate	Required	Party Card Relationship Status Aggregate

end Aggregate

---

### Party Card Relationship Reference Aggregate <PartyCardRelRef>

Party Card Relationship Reference Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">PartyCardRelKeys</a>	Aggregate	Required	Party Card Relationship Keys Aggregate
<a href="#">PartyCardRelRec</a>	Aggregate	Required	Party Card Relationship Record
<a href="#">PartyCardRelInfo</a>	Aggregate	Required	Party Card Relationship Information Aggregate
end-xor			
end Aggregate			

---

### Party Card Relationship Reversal Request <PartyCardRelRevRq>

Party Card Relationship Reversal Request

See the matching response message [PartyCardRelRevRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RevReasonCode</a>	Aggregate	Required	Reversal Reason Code
<a href="#">Desc</a>	C-80	Optional	Description
<a href="#">PartyCardRelRqMsg</a>	Aggregate	Required	Party Card Relationship Request Messages Aggregate

end Aggregate
---------------

---

## Party Card Relationship Reversal Response <PartyCardRelRevRs>

Party Card Relationship Reversal Response

See the matching request message [PartyCardRelRevRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
end Aggregate			

---

## Party Card Relationship Request Messages Aggregate <PartyCardRelRqMsg>

Party Card Relationship Request Messages Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">PartyCardRelAddRq</a>	Aggregate	Required	Party Card Relationship Add Message
<a href="#">PartyCardRelModRq</a>	Aggregate	Required	Party Card Relationship Modify Request
<a href="#">PartyCardRelDelRq</a>	Aggregate	Required	Party Card Relationship Delete Request
<a href="#">PartyCardRelInqRq</a>	Aggregate	Required	Party Card Relationship Inquiry Request
<a href="#">PartyCardRelAdviseRq</a>	Aggregate	Required	Party Card Relationship Advise

			Message
<a href="#">PartyCardRelAudRq</a>	Aggregate	Required	Party Card Relationship Audit Request
<a href="#">PartyCardRelSyncRq</a>	Aggregate	Required	Party Card Relationship Sync Request
<a href="#">PartyCardRelStatusModRq</a>	Aggregate	Required	Party Card Relationship Status Modify Request
<a href="#">PartyCardRelStatusInqRq</a>	Aggregate	Required	Party Card Relationship Status Inquiry Request
<a href="#">RevRqUID</a>	UUID	Required	Reversal Request Unique ID
end-xor			
end Aggregate			

---

### Party Card Relationship Response Messages Aggregate <PartyCardRelRsMsg>

Party Card Relationship Response Messages Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">MsgRecDt</a>	Timestamp	Optional	Audit Record Creation Date
begin-xor		Required	
<a href="#">PartyCardRelAddRs</a>	Aggregate	Required	Party Card Relationship Add Response
<a href="#">PartyCardRelModRs</a>	Aggregate	Required	Party Card Relationship Modify Response
<a href="#">PartyCardRelDelRs</a>	Aggregate	Required	Party Card Relationship Delete Response
<a href="#">PartyCardRelRevRs</a>	Aggregate	Required	Party Card Relationship Reversal Response
<a href="#">PartyCardRelInqRs</a>	Aggregate	Required	Party Card Relationship Inquiry Response
<a href="#">PartyCardRelAdviseRs</a>	Aggregate	Required	Party Card Relationship Advise Response
<a href="#">PartyCardRelStatusModRs</a>	Aggregate	Required	Party Card Relationship Status Modify Response
<a href="#">PartyCardRelStatusInqRs</a>	Aggregate	Required	Party Card Relationship Status Inquiry Response



end-xor
end Aggregate

---

### Party Card Relationship Selection Aggregate <PartyCardRelSel>

Party Card Relationship Selection Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required Repeating	
<a href="#">PartyCardRelKeys</a>	Aggregate	Required	Party Card Relationship Keys Aggregate
begin-block		Required	
<a href="#">PartyKeys</a>	Aggregate	Optional	Party Keys Aggregate
<a href="#">CardKeys</a>	Aggregate	Optional	Card Keys Aggregate
end-block			
end-xor			
end Aggregate			

---

### Party Card Relationship Status Aggregate <PartyCardRelStatus>

Party Card Relationship Status Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">PartyCardRelStatusCode</a>	Open Enum	Required	Party Card Relationship Status Code Valid values include: Active, Deleted, Inactive, PendDelete, Pending
<a href="#">StatusDesc</a>	C-255	Optional	Status Description
<a href="#">EffDt</a>	DateTime	Optional	Effective Date Time

<a href="#">StatusModBy</a>	Open Enum	Optional	Status Modified By Valid values include: BPP, BPPSR, BSP, BPSR, CPP, CPPSR, CSP, CSPSR, Customer, FI, PSP
end Aggregate			

---

### Party Card Relationship Status Code <PartyCardRelStatusCode>

Party Card Relationship Status Code

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
Pending		N
Active		N
Inactive		N
PendDelete		N
Deleted		N

---

### Party Card Relationship Status Inquiry Request <PartyCardRelStatusInqRq>

Party Card Relationship Status Inquiry Request

See the matching response message [PartyCardRelStatusInqRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input

begin-xor		Optional Repeating	
<a href="#">PartyCardRelSel</a>	Aggregate	Required	Party Card Relationship Selection Aggregate
<a href="#">RecSelect</a>	IfxPath	Required	Record Select
end-xor			
end Aggregate			

---

### Party Card Relationship Status Inquiry Response <PartyCardRelStatusInqRs>

Party Card Relationship Status Inquiry Response

See the matching request message [PartyCardRelStatusInqRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">PartyCardRelStatusRec</a>	Aggregate	Optional Repeating	Party Card Relationship Status Record
end-block			
end Aggregate			

---

### Party Card Relationship Status Modify Request <PartyCardRelStatusModRq>

Party Card Relationship Status Modify Request

See the matching response message [PartyCardRelStatusModRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">PartyCardRelKeys</a>	Aggregate	Required	Party Card Relationship Keys Aggregate
<a href="#">PartyCardRelStatus</a>	Aggregate	Required	Party Card Relationship Status Aggregate
end Aggregate			

---

**Party Card Relationship Status Modify Response**  
<PartyCardRelStatusModRs>

Party Card Relationship Status Modify Response

See the matching request message [PartyCardRelStatusModRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">PartyCardRelStatusRec</a>	Aggregate	Required	Party Card Relationship Status Record
end-block			
end Aggregate			

---

**Party Card Relationship Status Record <PartyCardRelStatusRec>**

Party Card Relationship Status Record

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">PartyCardRelId</a>	Identifier	Required	Party Card Relationship Identifier
<a href="#">PartyCardRelStatus</a>	Aggregate	Required	Party Card Relationship Status Aggregate
end Aggregate			

---

### Party Card Relationship Sync Request <PartyCardRelSyncRq>

Party Card Relationship Sync Request

See the matching response message [PartyCardRelSyncRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
<a href="#">PartyCardRelKeys</a>	Aggregate	Optional Repeating	Party Card Relationship Keys Aggregate
end Aggregate			

---

### Party Card Relationship Sync Response <PartyCardRelSyncRs>

Party Card Relationship Sync Response

See the matching request message [PartyCardRelSyncRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
-----	------	-------	---------------------------

begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">PartyCardRelRsMsg</a>	Aggregate	Optional Repeating	Party Card Relationship Response Messages Aggregate
end-block			
end Aggregate			

---

### Party Card Relationship Type <PartyCardRelType>

Party-Card Relationship Type

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
Primary	The cardholder with financial responsibility.	N
Secondary	A cardholder that may or may not have financial responsibility after the Primary. Typically, a spouse relationship to the Primary.	N
Additional	A cardholder without financial responsibility.	N

---

### Party Data <PartyData>

Party Data

Extended By: [OrgData](#), [PersonData](#)

Datatype: **Abstract Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
	Aggregate		

<a href="#">Contact</a>		Optional Repeating	Contact
<a href="#">IssuedIdent</a>	Aggregate	Optional Repeating	Issued Identification
end Aggregate			

---

### Party Request Message <PartyDelRq>

See the matching response message [PartyDelRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">PartyKeys</a>	Aggregate	Required	Party Keys Aggregate
end Aggregate			

---

### Party Response Message <PartyDelRs>

See the matching request message [PartyDelRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful

begin-xor		Required	
<a href="#">PartyRec</a>	Aggregate	Required	Party Record Aggregate
<a href="#">PartyStatusRec</a>	Aggregate	Required	Party Status Record Aggregate
end-xor			
end-block			
end Aggregate			

## Party Environment Aggregate <PartyEnvr>

Party Environment Aggregate

Extends: [BaseEnvr](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseEnvr			
<a href="#">CreatedDt</a>	DateTime	Required	Created Date/Time. The date/time the object was created.
<a href="#">CreateRefIdent</a>	NC-36	Optional	An identifier used to uniquely identify the creation of this object to the system that created the object. This will usually be a link to reference information used in creating the object.
<a href="#">ClientCreateDt</a>	DateTime	Optional	The created date/time as reported by the client. This can vary from the object creation date/time due to time zone differences, communication delays, etc
<a href="#">ClientBusinessDt</a>	DateTime	Optional	The date/time that the client recorded this object for operational purposes. This date/time will often be used to manage the availability of information or funds.
<a href="#">LastUpdateDt</a>	DateTime	Optional	Last update Date/Time. The date/time the object was created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LastUpdateRqUID</a>	UUID	Optional	Last update RqUID. The RqUID from the message that resulted in th object being created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).



<a href="#">LoginName</a>	C-40	Optional	The login name (or Id) of the individual that authorized this object to be created. This is typically used when the object is created on behalf of its owner by someone who is not normally represented as a Party (i.e., an employee or agent).
<a href="#">PartyKeys</a>	Aggregate	Optional	Reference to the Party that this object is owned by or authorized by.
<a href="#">CardKeys</a>	Aggregate	Optional	This is dependent on Card proposal. Currently this is implemented as the CardLogicalData aggregate.
<a href="#">PassbkKeys</a>	Aggregate	Optional	Currently PassbkAcceptData.
<a href="#">NetworkTrnData</a>	Aggregate	Optional	Network Transaction Information. Identification and location of the terminal from which the message originates.
<a href="#">ServerTerminalSeqNum</a>	NC-36	Optional	Server Terminal Sequence Number. A terminal sequence number generated by the server to identify this object. This number is used in ATM and POS environments to uniquely identify transactions (with terminal name and date) for transaction management.
<a href="#">PointOfServiceData</a>	Aggregate	Optional	The Point of Service Data. This aggregate contains information about the environment in which this message originated.
<a href="#">ClientTerminalSeqNum</a>	NC-36	Optional	Client Terminal Sequence Number. A terminal sequence number generated by the client to identify this object. This number is used in ATM, POS, Branch, Call Center and Teller environments to uniquely identify transactions at the client (with terminal name and date). This number is often required when requesting supporting documentation related to a customer transaction.
end Elements from BaseEnvr			
begin Aggregate			
end Aggregate			

---

**Party Identifier <PartyId>**

Party Identifier

Datatype: **Identifier**

## Party Information Aggregate <PartyInfo>

Party Information Aggregate

Extended By: [OrgPartyInfo](#), [PersonPartyInfo](#)

Datatype: **Abstract Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">PartyPref</a>	Aggregate	Optional	Party Preference
<a href="#">FinancialData</a>	Aggregate	Optional Repeating	Financial Data
<a href="#">EstablishedDt</a>	Date	Optional	Established Date
<a href="#">ServiceLevel</a>	Open Enum	Optional	Service Level  Valid values include: BusinessClass, Coach, FirstClass, Gold, Platinum, Silver
<a href="#">OriginatingBranch</a>	C-32	Optional	Originating Branch
<a href="#">OriginatingBank</a>	C-32	Optional	Originating Bank
<a href="#">PreferredBranch</a>	C-32	Optional	Preferred Branch
<a href="#">PreferredBank</a>	C-32	Optional	Preferred Bank
<a href="#">ResponsibleBranch</a>	C-32	Optional	Responsible Branch
<a href="#">ResponsibleBank</a>	C-32	Optional	Responsible Bank
<a href="#">ResidenceCountry</a>	Aggregate	Optional	ResidenceCountry
<a href="#">TaxResidenceCountry</a>	Aggregate	Optional	TaxResidence Country
<a href="#">LastContactDt</a>	DateTime	Optional	Last Contact Date
<a href="#">LastPrivacyNoteDt</a>	Date	Optional	Last Privacy Note Date
<a href="#">ClosedDt</a>	Date	Optional	Closed Date
<a href="#">CloseReason</a>	C-80	Optional	Close Reason
<a href="#">PartyAffiliateData</a>	Aggregate	Optional Repeating	Party Affiliate Data
<a href="#">CreditRisk</a>	Aggregate	Optional Repeating	Credit Risk
<a href="#">CreditReviewTimeFrame</a>	Aggregate	Optional	Credit Review Time Frame
<a href="#">Correspondence</a>	Aggregate	Optional Repeating	Correspondence
	Aggregate		

<a href="#">RelationshipMgr</a>		Optional Repeating	Relationship Manager
<a href="#">ServicesProvided</a>	C-80	Optional	Services Provided
<a href="#">HouseHoldAddr</a>	Aggregate	Optional	House Hold Address
<a href="#">BankruptcyInd</a>	Boolean	Optional	Bankruptcy Indicator
<a href="#">BankruptcyData</a>	Aggregate	Optional Repeating	Bankruptcy Data
end Aggregate			

---

### Party Request Message <PartyInqRq>

See the matching response message [PartyInqRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">DocCtrlIn</a>	Aggregate	Optional	Document Control Input
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
begin-xor		Optional Repeating	
<a href="#">PartySel</a>	Aggregate	Required	Party Selection Aggregate
<a href="#">RecSelect</a>	IfxPath	Required	Record Select
end-xor			
end Aggregate			

---

### Party Response Message <PartyInqRs>

See the matching request message [PartyInqRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">DocCtrlOut</a>	Aggregate	Optional	Document Control Output
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">PartyRec</a>	Aggregate	Required Repeating	Party Record Aggregate
end-block			
end Aggregate			

---

### Party Keys Aggregate <PartyKeys>

Party Keys Aggregate

Extends: [BaseKeys](#)

Extended By: [RelPartyKeys](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseKeys			
end Elements from BaseKeys			
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
begin-xor		Required	
<a href="#">PartyId</a>	Identifier	Required	Party Identifier
<a href="#">LoginIdent</a>	Aggregate	Required	Login Identifier
end-xor			
end Aggregate			

---

## Party Request Message <PartyModRq>

See the matching response message [PartyModRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">PartyKeys</a>	Aggregate	Required	Party Keys Aggregate
begin-block		Required Repeating	
<a href="#">PartyInfo</a>	Abstract Aggregate	Required	Party Information Aggregate <b>Valid Aggregates are:</b> OrgPartyInfo PersonPartyInfo
begin-xor		Required Repeating	
<a href="#">DelElements</a>	IfxPath	Required	An IfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to delete. It is an error if one attempts to delete Required fields.
<a href="#">UpdElements</a>	IfxPath	Required	An IfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to update. The new value of the updated element is in the accompanying xxxInfo aggregate.
<a href="#">NewElements</a>	IfxPath	Required	An IfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to add. The new value of the new elements is in the accompanying xxxInfo aggregate.
end-xor			
end-block			
end Aggregate			

---

## Party Response Message <PartyModRs>

See the matching request message [PartyModRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">PartyRec</a>	Aggregate	Required	Party Record Aggregate
<a href="#">PartyStatusRec</a>	Aggregate	Required	Party Status Record Aggregate
end-xor			
end-block			
end Aggregate			

---

**Party to Party Relationship Add Message <PartyPartyRelAddRq>**

Party to Party Relationship Add Message

See the matching response message [PartyPartyRelAddRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">PartyPartyRelInfo</a>	Aggregate	Required	Party to Party Relationship Information Aggregate
end Aggregate			

---

**Party to Party Relationship Add Response <PartyPartyRelAddRs>**

Party to Party Relationship Add Response

See the matching request message [PartyPartyRelAddRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">PartyPartyRelRec</a>	Aggregate	Required	Party to Party Relationship Record
<a href="#">PartyPartyRelStatusRec</a>	Aggregate	Required	Party to Party Relationship Status Record
end-xor			
end-block			
end Aggregate			

### Party to Party Relationship Advise Message <PartyPartyRelAdviseRq>

Party to Party Relationship Advise Message

See the matching response message [PartyPartyRelAdviseRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
begin-xor		Required	
<a href="#">PartyPartyRelRec</a>	Aggregate	Required	Party to Party Relationship Record
<a href="#">PartyPartyRelStatusRec</a>	Aggregate	Required	Party to Party Relationship Status Record

end-xor
end Aggregate

---

**Party to Party Relationship Advise Response**  
**<PartyPartyRelAdviseRs>**

Party to Party Relationship Advise Response

See the matching request message [PartyPartyRelAdviseRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">PartyPartyRelRec</a>	Aggregate	Required	Party to Party Relationship Record
<a href="#">PartyPartyRelStatusRec</a>	Aggregate	Required	Party to Party Relationship Status Record
end-xor			
end-block			
end Aggregate			

---

**Party to Party Relationship Audit Request <PartyPartyRelAudRq>**

Party to Party Relationship Audit Request

See the matching response message [PartyPartyRelAudRs](#)

Datatype: **Aggregate**

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Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
<a href="#">DtRange</a>	Aggregate	Optional	Date Range
<a href="#">Method</a>	Closed Enum	Optional Repeating	Method Valid values are limited to: Add, Advise, AuthMod, Can, Del, Mod, StatusMod
<a href="#">PartyPartyRelKeys</a>	Aggregate	Optional Repeating	Party to Party Relationship Keys Aggregate
end Aggregate			

---

### Party to Party Relationship Audit Response <PartyPartyRelAudRs>

Party to Party Relationship Audit Response

See the matching request message [PartyPartyRelAudRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">PartyPartyRelRsMsg</a>	Aggregate	Optional Repeating	Party to Party Relationship Response Messages Aggregate
end-block			
end Aggregate			

---

### Party to Party Relationship Delete Request <PartyPartyRelDelRq>

## Party to Party Relationship Delete Request

See the matching response message [PartyPartyRelDelRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">PartyPartyRelKeys</a>	Aggregate	Required	Party to Party Relationship Keys Aggregate
end Aggregate			

---

## Party to Party Relationship Delete Response <PartyPartyRelDelRs>

Party to Party Relationship Delete Response

See the matching request message [PartyPartyRelDelRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">PartyPartyRelRec</a>	Aggregate	Required	Party to Party Relationship Record
<a href="#">PartyPartyRelStatusRec</a>	Aggregate	Required	Party to Party Relationship Status Record
end-xor			
end-block			
end Aggregate			

**Party to Party Relationship Environment Aggregate**  
**<PartyPartyRelEnvr>**

Party to Party Relationship Environment Aggregate

Extends: [BaseEnvr](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseEnvr			
<a href="#">CreatedDt</a>	DateTime	Required	Created Date/Time. The date/time the object was created.
<a href="#">CreateRefIdent</a>	NC-36	Optional	An identifier used to uniquely identify the creation of this object to the system that created the object. This will usually be a link to reference information used in creating the object.
<a href="#">ClientCreateDt</a>	DateTime	Optional	The created date/time as reported by the client. This can vary from the object creation date/time due to time zone differences, communication delays, etc
<a href="#">ClientBusinessDt</a>	DateTime	Optional	The date/time that the client recorded this object for operational purposes. This date/time will often be used to manage the availability of information or funds.
<a href="#">LastUpdateDt</a>	DateTime	Optional	Last update Date/Time. The date/time the object was created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LastUpdateRqUID</a>	UUID	Optional	Last update RqUID. The RqUID from the message that resulted in th object being created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LoginName</a>	C-40	Optional	The login name (or Id) of the individual that authorized this object to be created. This is typically used when the object is created on behalf of its owner by someone who is not normally represented as a Party (i.e., an employee or agent).
<a href="#">PartyKeys</a>	Aggregate	Optional	Reference to the Party that this object is owned by or authorized by.
	Aggregate		

<a href="#">CardKeys</a>		Optional	This is dependent on Card proposal. Currently this is implemented as the CardLogicalData aggregate.
<a href="#">PassbkKeys</a>	Aggregate	Optional	Currently PassbkAcceptData.
<a href="#">NetworkTrnData</a>	Aggregate	Optional	Network Transaction Information. Identification and location of the terminal from which the message originates.
<a href="#">ServerTerminalSeqNum</a>	NC-36	Optional	Server Terminal Sequence Number. A terminal sequence number generated by the server to identify this object. This number is used in ATM and POS environments to uniquely identify transactions (with terminal name and date) for transaction management.
<a href="#">PointOfServiceData</a>	Aggregate	Optional	The Point of Service Data. This aggregate contains information about the environment in which this message originated.
<a href="#">ClientTerminalSeqNum</a>	NC-36	Optional	Client Terminal Sequence Number. A terminal sequence number generated by the client to identify this object. This number is used in ATM, POS, Branch, Call Center and Teller environments to uniquely identify transactions at the client (with terminal name and date). This number is often required when requesting supporting documentation related to a customer transaction.
end Elements from BaseEnvr			
begin Aggregate			
end Aggregate			

---

**Party to Party Relationship Identifier <PartyPartyRelId>**

Party to Party Relationship Identifier

Datatype: **Identifier**

---

**Party to Party Relationship Information Aggregate  
<PartyPartyRelInfo>**

## Party to Party Relationship Information Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">PartyRef</a>	Aggregate	Required	Party Reference Aggregate
<a href="#">RelPartyRef</a>	Aggregate	Required Repeating	Related Party Reference
<a href="#">PartyRelType</a>	C-40	Optional	Party Relationship Type
<a href="#">PartyRelName</a>	C-40	Optional	Party Relationship Name
<a href="#">PartyRole</a>	C-40	Optional Repeating	Party Role
end Aggregate			

---

## Party to Party Relationship Inquiry Request <PartyPartyRelInqRq>

Party to Party Relationship Inquiry Request

See the matching response message [PartyPartyRelInqRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">DocCtrlIn</a>	Aggregate	Optional	Document Control Input
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
begin-xor		Optional Repeating	
<a href="#">PartyPartyRelSel</a>	Aggregate	Required	Party to Party Relationship Selection Aggregate
<a href="#">RecSelect</a>	lfxPath	Required	Record Select
end-xor			
end Aggregate			

---

## Party to Party Relationship Inquiry Response <PartyPartyRelInqRs>

Party to Party Relationship Inquiry Response

See the matching request message [PartyPartyRelInqRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">DocCtrlOut</a>	Aggregate	Optional	Document Control Output
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">PartyPartyRelRec</a>	Aggregate	Required Repeating	Party to Party Relationship Record
end-block			
end Aggregate			

---

## Party to Party Relationship Keys Aggregate <PartyPartyRelKeys>

Party to Party Relationship Keys Aggregate

Extends: [BaseKeys](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseKeys			
end Elements from BaseKeys			
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
begin-xor		Required	
<a href="#">PartyPartyRelId</a>	Identifier	Required	Party to Party Relationship Identifier

begin-block		Required	
<a href="#">PartyKeys</a>	Aggregate	Required	Party Keys Aggregate
<a href="#">RelPartyKeys</a>	Aggregate	Required	Related-Party Keys
<a href="#">PartyRelRole</a>	C-40	Optional	Party Relationship Role
<a href="#">PartyRelType</a>	C-40	Optional	Party Relationship Type
<a href="#">PartyRelName</a>	C-40	Optional	Party Relationship Name
end-block			
end-xor			
end Aggregate			

---

## Party to Party Relationship Modify Request <PartyPartyRelModRq>

Party to Party Relationship Modify Request

See the matching response message [PartyPartyRelModRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">PartyPartyRelKeys</a>	Aggregate	Required	Party to Party Relationship Keys Aggregate
begin-block		Required Repeating	
<a href="#">PartyPartyRelInfo</a>	Aggregate	Required	Party to Party Relationship Information Aggregate
begin-xor		Optional Repeating	
<a href="#">DelElements</a>	IfxPath	Required	An IfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to delete. It is an error if one attempts to delete Required fields.
<a href="#">UpdElements</a>	IfxPath	Required	An IfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to update. The new value of the updated element is in the accompanying xxxInfo aggregate.
	IfxPath		

<a href="#">NewElements</a>		Required	An IfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to add. The new value of the new elements is in the accompanying xxxInfo aggregate.
end-xor			
end-block			
end Aggregate			

---

### Party to Party Relationship Modify Response <PartyPartyRelModRs>

Party to Party Relationship Modify Response

See the matching request message [PartyPartyRelModRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">PartyPartyRelRec</a>	Aggregate	Required	Party to Party Relationship Record
<a href="#">PartyPartyRelStatusRec</a>	Aggregate	Required	Party to Party Relationship Status Record
end-xor			
end-block			
end Aggregate			

---

### Party to Party Relationship Record <PartyPartyRelRec>

Party to Party Relationship Record



Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">PartyPartyRelId</a>	Identifier	Required	Party to Party Relationship Identifier
<a href="#">PartyPartyRelInfo</a>	Aggregate	Required	Party to Party Relationship Information Aggregate
<a href="#">PartyPartyRelEnvr</a>	Aggregate	Optional	Party to Party Relationship Environment Aggregate
<a href="#">PartyPartyRelStatus</a>	Aggregate	Required	Party to Party Relationship Status Aggregate
end Aggregate			

---

**Party to Party Relationship Reference Aggregate <PartyPartyRelRef>**

Party to Party Relationship Reference Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">PartyPartyRelKeys</a>	Aggregate	Required	Party to Party Relationship Keys Aggregate
<a href="#">PartyPartyRelRec</a>	Aggregate	Required	Party to Party Relationship Record
<a href="#">PartyPartyRelInfo</a>	Aggregate	Required	Party to Party Relationship Information Aggregate
end-xor			
end Aggregate			

---

**Party to Party Relationship Reversal Request <PartyPartyRelRevRq>**

Party to Party Relationship Reversal Request

See the matching response message [PartyPartyRelRevRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RevReasonCode</a>	Aggregate	Required	Reversal Reason Code
<a href="#">Desc</a>	C-80	Optional	Description
<a href="#">PartyPartyRelRqMsg</a>	Aggregate	Required	Party to Party Relationship Request Messages Aggregate
end Aggregate			

---

**Party to Party Relationship Reversal Response**  
<PartyPartyRelRevRs>

Party to Party Relationship Reversal Response

See the matching request message [PartyPartyRelRevRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
end Aggregate			

---

**Party to Party Relationship Request Messages Aggregate**  
<PartyPartyRelRqMsg>

Party to Party Relationship Request Messages Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">PartyPartyRelAddRq</a>	Aggregate	Required	Party to Party Relationship Add Message
<a href="#">PartyPartyRelModRq</a>	Aggregate	Required	Party to Party Relationship Modify Request
<a href="#">PartyPartyRelDelRq</a>	Aggregate	Required	Party to Party Relationship Delete Request
<a href="#">PartyPartyRelInqRq</a>	Aggregate	Required	Party to Party Relationship Inquiry Request
<a href="#">PartyPartyRelAdviseRq</a>	Aggregate	Required	Party to Party Relationship Advise Message
<a href="#">PartyPartyRelAudRq</a>	Aggregate	Required	Party to Party Relationship Audit Request
<a href="#">PartyPartyRelSyncRq</a>	Aggregate	Required	Party to Party Relationship Sync Request
<a href="#">PartyPartyRelStatusModRq</a>	Aggregate	Required	Party to Party Relationship Status Modify Request
<a href="#">PartyPartyRelStatusInqRq</a>	Aggregate	Required	Party to Party Relationship Status Inquiry Request
<a href="#">RevRqUID</a>	UUID	Required	Reversal Request Unique ID
end-xor			
end Aggregate			

---

### Party to Party Relationship Response Messages Aggregate <PartyPartyRelRsMsg>

Party to Party Relationship Response Messages Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">MsgRecDt</a>	Timestamp	Optional	Audit Record Creation Date
begin-xor		Required	
<a href="#">PartyPartyRelAddRs</a>	Aggregate	Required	Party to Party Relationship Add Response
<a href="#">PartyPartyRelModRs</a>	Aggregate	Required	Party to Party Relationship Modify

			Response
<a href="#">PartyPartyRelDelRs</a>	Aggregate	Required	Party to Party Relationship Delete Response
<a href="#">PartyPartyRelRevRs</a>	Aggregate	Required	Party to Party Relationship Reversal Response
<a href="#">PartyPartyRelInqRs</a>	Aggregate	Required	Party to Party Relationship Inquiry Response
<a href="#">PartyPartyRelAdviseRs</a>	Aggregate	Required	Party to Party Relationship Advise Response
<a href="#">PartyPartyRelStatusModRs</a>	Aggregate	Required	Party to Party Relationship Status Modify Response
<a href="#">PartyPartyRelStatusInqRs</a>	Aggregate	Required	Party to Party Relationship Status Inquiry Response
end-xor			
end Aggregate			

---

### Party to Party Relationship Selection Aggregate <PartyPartyRelSel>

Party to Party Relationship Selection Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">PartyPartyRelKeys</a>	Aggregate	Required	Party to Party Relationship Keys Aggregate
begin-block		Required	
begin-or		Required	
<a href="#">PartyKeys</a>	Aggregate	Required	Party Keys Aggregate
<a href="#">RelPartyKeys</a>	Aggregate	Optional	Related-Party Keys
<a href="#">PartyRelName</a>	C-40	Required	Party Relationship Name
<a href="#">PartyRelType</a>	C-40	Required	Party Relationship Type
<a href="#">PartyRole</a>	C-40	Required	Party Role
<a href="#">RelPartyRole</a>	C-40	Optional	Related-Party Role
<a href="#">DtRange</a>	Aggregate	Required	Date Range
end-or			
end-block			

end-xor
end Aggregate

## Party to Party Relationship Status Aggregate <PartyPartyRelStatus>

Party to Party Relationship Status Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">PartyPartyRelStatusCode</a>	Open Enum	Required	Party to Party Relationship Status Code  Valid values include: Deleted, Valid
<a href="#">StatusDesc</a>	C-255	Optional	Status Description
<a href="#">EffDt</a>	DateTime	Optional	Effective Date Time
<a href="#">StatusModBy</a>	Open Enum	Optional	Status Modified By  Valid values include: BPP, BPPSR, BSP, BSPSR, CPP, CPPSR, CSP, CSPSR, Customer, FI, PSP
end Aggregate			

## Party to Party Relationship Status Code <PartyPartyRelStatusCode>

Party to Party Relationship Status Code

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
Valid		N
Deleted		N

---

## Party to Party Relationship Status Inquiry Request <PartyPartyRelStatusInqRq>

Party to Party Relationship Status Inquiry Request

See the matching response message [PartyPartyRelStatusInqRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
begin-xor		Optional Repeating	
<a href="#">PartyPartyRelSel</a>	Aggregate	Required	Party to Party Relationship Selection Aggregate
<a href="#">RecSelect</a>	IfxPath	Required	Record Select
end-xor			
end Aggregate			

---

## Party to Party Relationship Status Inquiry Response <PartyPartyRelStatusInqRs>

Party to Party Relationship Status Inquiry Response

See the matching request message [PartyPartyRelStatusInqRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header

end-block			
begin-block		Optional	required if message is successful
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">PartyPartyRelStatusRec</a>	Aggregate	Optional Repeating	Party to Party Relationship Status Record
end-block			
end Aggregate			

---

### Party to Party Relationship Status Modify Request <PartyPartyRelStatusModRq>

Party to Party Relationship Status Modify Request

See the matching response message [PartyPartyRelStatusModRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">PartyPartyRelKeys</a>	Aggregate	Required	Party to Party Relationship Keys Aggregate
<a href="#">PartyPartyRelStatus</a>	Aggregate	Required	Party to Party Relationship Status Aggregate
end Aggregate			

---

### Party to Party Relationship Status Modify Response <PartyPartyRelStatusModRs>

Party to Party Relationship Status Modify Response

See the matching request message [PartyPartyRelStatusModRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			

begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">PartyPartyRelStatusRec</a>	Aggregate	Required	Party to Party Relationship Status Record
end-block			
end Aggregate			

---

### Party to Party Relationship Status Record <PartyPartyRelStatusRec>

Party to Party Relationship Status Record

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">PartyPartyRelId</a>	Identifier	Required	Party to Party Relationship Identifier
<a href="#">PartyPartyRelStatus</a>	Aggregate	Required	Party to Party Relationship Status Aggregate
end Aggregate			

---

### Party to Party Relationship Sync Request <PartyPartyRelSyncRq>

Party to Party Relationship Sync Request

See the matching response message [PartyPartyRelSyncRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			



<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
<a href="#">PartyPartyRelKeys</a>	Aggregate	Optional Repeating	Party to Party Relationship Keys Aggregate
end Aggregate			

---

## Party to Party Relationship Sync Response <PartyPartyRelSyncRs>

Party to Party Relationship Sync Response

See the matching request message [PartyPartyRelSyncRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">PartyPartyRelRsMsg</a>	Aggregate	Optional Repeating	Party to Party Relationship Response Messages Aggregate
end-block			
end Aggregate			

---

## Party Preference <PartyPref>

The <PartyPref> aggregate is used to specify a customer's preferences or for the service provider to store values that are specific to a party. Applications can use the values stored in this aggregate to tailor the party's experience during an interaction with a service.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">Language</a>	NC-17	Optional	Language. This element contains the customer's preferred language of communication.  See <a href="#">Language and Dialectics</a> for more information on the format of this element.
<a href="#">CommunicationMethod</a>	Open Enum	Optional	Communication Method  Valid values include: ASL, BRL, TDD
<a href="#">SolicitCommunicationMeth</a>	C-80	Optional	Solicit Communication Method
<a href="#">CurCode</a>	Aggregate	Optional	Indicates preferred currency of the Party.
end Aggregate			

---

## Party Record Aggregate <PartyRec>

Party Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">PartyId</a>	Identifier	Required	Party Identifier
<a href="#">PartyInfo</a>	Abstract Aggregate	Required	Party Information Aggregate  <b>Valid Aggregates are:</b> OrgPartyInfo PersonPartyInfo
<a href="#">PartyEnvr</a>	Aggregate	Optional	Party Environment Aggregate
<a href="#">PartyAuth</a>	Aggregate	Optional	Party Authorization and/or Authentication Data
<a href="#">PartyStatus</a>	Aggregate	Required	Party Status Aggregate
end Aggregate			

---

## Party Reference Aggregate <PartyRef>

Party Reference Aggregate

Extended By: [PrimaryPartyRef](#), [RelPartyRef](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">PartyKeys</a>	Aggregate	Required	Party Keys Aggregate
<a href="#">PartyRec</a>	Aggregate	Required	Party Record Aggregate
<a href="#">PartyInfo</a>	Abstract Aggregate	Required	Party Information Aggregate <b>Valid Aggregates are:</b> OrgPartyInfo PersonPartyInfo
end-xor			
end Aggregate			

---

## Party Relationship Name <PartyRelName>

Party Relationship Name

Datatype: **C-40**

---

## Party Relationship Role <PartyRelRole>

A field that represents an association between two customers. For example, a customer may be related to another customer in the role of guarantor. The institution defines what roles are valid between customers. Role relationships further provide the ability to track related information. There can be several roles between customers.

Datatype: **C-40**

---

### Party Relationship Type <PartyRelType>

A field that represents the relationship between two parties. Example, H-W for Husband to Wife.

Datatype: **C-40**

---

### Party Request Message <PartyRevRq>

See the matching response message [PartyRevRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RevReasonCode</a>	Aggregate	Required	Reversal Reason Code
<a href="#">Desc</a>	C-80	Optional	Description
<a href="#">PartyRqMsg</a>	Aggregate	Required	Party Request Message Record Aggregate
end Aggregate			

---

### Party Response Message <PartyRevRs>

See the matching request message [PartyRevRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	

<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
end Aggregate			

---

### Party Role <PartyRole>

Refers to the role of the PartyRef (ex: Husband, Primary, Member).

Datatype: **C-40**

---

### Party Request Message Record Aggregate <PartyRqMsg>

Party Request Message Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">PartyAddRq</a>	Aggregate	Required	Party Add Message
<a href="#">PartyModRq</a>	Aggregate	Required	Party Modify Request
<a href="#">PartyDelRq</a>	Aggregate	Required	Party Delete Request
<a href="#">PartyInqRq</a>	Aggregate	Required	Party Inquiry Request
<a href="#">PartyAdviseRq</a>	Aggregate	Required	Party Advise Message
<a href="#">PartyAudRq</a>	Aggregate	Required	Party Audit Request
<a href="#">PartySyncRq</a>	Aggregate	Required	Party Sync Request
<a href="#">PartyStatusModRq</a>	Aggregate	Required	Party Status Modify Request
<a href="#">PartyStatusInqRq</a>	Aggregate	Required	Party Status Inquiry Request
<a href="#">PartyAuthModRq</a>	Aggregate	Required	Party Authorization Modify Request
<a href="#">PartyAuthInqRq</a>	Aggregate	Required	Party Authorization Inquiry Request
<a href="#">RevRqUID</a>	UUID	Required	Reversal Request Unique ID
end-xor			

end Aggregate

### PartyResponse Message Record Aggregate <PartyRsMsg>

PartyResponse Message Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">MsgRecDt</a>	Timestamp	Optional	Audit Record Creation Date
begin-xor		Required	
<a href="#">PartyAddRs</a>	Aggregate	Required	Party Add Response
<a href="#">PartyModRs</a>	Aggregate	Required	Party Modify Response
<a href="#">PartyDelRs</a>	Aggregate	Required	Party Delete Response
<a href="#">PartyRevRs</a>	Aggregate	Required	Party Reversal Response
<a href="#">PartyInqRs</a>	Aggregate	Required	Party Inquiry Response
<a href="#">PartyAdviseRs</a>	Aggregate	Required	Party Advise Response
<a href="#">PartyStatusModRs</a>	Aggregate	Required	Party Status Modify Response
<a href="#">PartyStatusInqRs</a>	Aggregate	Required	Party Status Inquiry Response
<a href="#">PartyAuthModRs</a>	Aggregate	Required	Party Authorization Modify Response
<a href="#">PartyAuthInqRs</a>	Aggregate	Required	Party Authorization Inquiry Response
end-xor			
end Aggregate			

### Party Selection Aggregate <PartySel>

Party Selection Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			

begin-xor		Required Repeating	
<a href="#">PartyKeys</a>	Aggregate	Required	Party Keys Aggregate
begin-block		Required	
<a href="#">PersonIndicator</a>	Boolean	Optional	Person Indicator
<a href="#">IssuedIdentValue</a>	C-32	Optional	Issued Identification Value
<a href="#">IssuedIdentType</a>	Open Enum	Optional	Issued Identification Type  Valid values include: AlnRegnNb, BEI, BIC, BirthCertificate, BkPtyId, DrvrsLicNb, DUNS, EANGLN, HealthCard, IBEI, IdntyCardNb, MerchantId, Military, MplyrIdNb, NINO, NRABusiness, NRAPersonal, Other, Passbook, PermanentResidence, PrtryId, PsptNb, Retirement, SciSctyNb, TaxIdNb, USCHU, VoterRegistration  Default Value: Other
<a href="#">FullName</a>	C-96	Optional	Full Name
<a href="#">Addr1</a>	C-64	Optional	Address Line 1
<a href="#">PostalCode</a>	C-11	Optional	Postal Code
<a href="#">BirthDt</a>	Date	Optional	Date of Birth
<a href="#">Phone</a>	Phone Number	Optional	Telephone number
<a href="#">EmailAddr</a>	NC-128	Optional	Email Address
end-block			
end-xor			
end Aggregate			

---

### Party Status Aggregate <PartyStatus>

Party Status Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">PartyStatusCode</a>	Open Enum	Required	Party Status Code  Valid values include: Deleted, Valid
<a href="#">StatusDesc</a>	C-255	Optional	Status Description

<a href="#">EffDt</a>	DateTime	Optional	Effective Date Time
<a href="#">ApprovalIdent</a>	NC-36	Optional	Approval Identifier
<a href="#">StatusModBy</a>	Open Enum	Optional	Status Modified By  Valid values include: BPP, BPPSR, BSP, BPSR, CPP, CPPSR, CSP, CSPSR, Customer, FI, PSP
end Aggregate			

---

### Party Status Code <PartyStatusCode>

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
Valid		N
Deleted		N

---

### Party Request Message <PartyStatusInqRq>

See the matching response message [PartyStatusInqRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
begin-xor		Optional Repeating	
<a href="#">PartySel</a>	Aggregate	Required	Party Selection Aggregate
<a href="#">RecSelect</a>	IfxPath	Required	Record Select



end-xor
end Aggregate

---

### Party Response Message <PartyStatusInqRs>

See the matching request message [PartyStatusInqRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">PartyStatusRec</a>	Aggregate	Optional Repeating	Party Status Record Aggregate
end-block			
end Aggregate			

---

### Party Request Message <PartyStatusModRq>

See the matching response message [PartyStatusModRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">PartyKeys</a>	Aggregate	Required	Party Keys Aggregate

<a href="#">PartyStatus</a>	Aggregate	Required	Party Status Aggregate
end Aggregate			

---

## Party Response Message <PartyStatusModRs>

See the matching request message [PartyStatusModRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">PartyStatusRec</a>	Aggregate	Required	Party Status Record Aggregate
end-block			
end Aggregate			

---

## Party Status Record Aggregate <PartyStatusRec>

Party Status Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">PartyId</a>	Identifier	Required	Party Identifier
<a href="#">PartyStatus</a>	Aggregate	Required	Party Status Aggregate
end Aggregate			

---

**Party Service Account Relationship Add Message**  
<PartySvcAcctRelAddRq>

Party Service Account Relationship Add Message

See the matching response message [PartySvcAcctRelAddRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">PartySvcAcctRelInfo</a>	Aggregate	Required	Party Service Account Relationship Information Aggregate
end Aggregate			

---

**Party Service Account Relationship Add Response**  
<PartySvcAcctRelAddRs>

Party Service Account Relationship Add Response

See the matching request message [PartySvcAcctRelAddRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">PartySvcAcctRelRec</a>	Aggregate	Required	Party Service Account Relationship

			Record
<a href="#">PartySvcAcctRelStatusRec</a>	Aggregate	Required	Party Service Account Relationship Status Record
end-xor			
end-block			
end Aggregate			

---

### Party Service Account Relationship Delete Request <PartySvcAcctRelDelRq>

Party Service Account Relationship Delete Request

See the matching response message [PartySvcAcctRelDelRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">PartySvcAcctRelKeys</a>	Aggregate	Required	Party Service Account Relationship Keys Aggregate
end Aggregate			

---

### Party Service Account Relationship Delete Response <PartySvcAcctRelDelRs>

Party Service Account Relationship Delete Response

See the matching request message [PartySvcAcctRelDelRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status

<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">PartySvcAcctRelRec</a>	Aggregate	Required	Party Service Account Relationship Record
<a href="#">PartySvcAcctRelStatusRec</a>	Aggregate	Required	Party Service Account Relationship Status Record
end-xor			
end-block			
end Aggregate			

---

### Party Service Account Relationship Environment Aggregate <PartySvcAcctRelEnvr>

Party Service Account Relationship Environment Aggregate

Extends: [BaseEnvr](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseEnvr			
<a href="#">CreatedDt</a>	DateTime	Required	Created Date/Time. The date/time the object was created.
<a href="#">CreateRefIdent</a>	NC-36	Optional	An identifier used to uniquely identify the creation of this object to the system that created the object. This will usually be a link to reference information used in creating the object.
<a href="#">ClientCreateDt</a>	DateTime	Optional	The created date/time as reported by the client. This can vary from the object creation date/time due to time zone differences, communication delays, etc
<a href="#">ClientBusinessDt</a>	DateTime	Optional	The date/time that the client recorded this object for operational purposes. This date/time will often be used to manage the availability of information or funds.
<a href="#">LastUpdateDt</a>	DateTime	Optional	Last update Date/Time. The date/time the object was created or modified. This field is intended to support optimistic concurrency

			implementations (provided on an inq and verified on a mod).
<a href="#">LastUpdateRqUID</a>	UUID	Optional	Last update RqUID. The RqUID from the message that resulted in th object being created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LoginName</a>	C-40	Optional	The login name (or Id) of the individual that authorized this object to be created. This is typically used when the object is created on behalf of its owner by someone who is not normally represented as a Party (i.e., an employee or agent).
<a href="#">PartyKeys</a>	Aggregate	Optional	Reference to the Party that this object is owned by or authorized by.
<a href="#">CardKeys</a>	Aggregate	Optional	This is dependent on Card proposal. Currently this is implemented as the CardLogicalData aggregate.
<a href="#">PassbkKeys</a>	Aggregate	Optional	Currently PassbkAcceptData.
<a href="#">NetworkTrnData</a>	Aggregate	Optional	Network Transaction Information. Identification and location of the terminal from which the message originates.
<a href="#">ServerTerminalSeqNum</a>	NC-36	Optional	Server Terminal Sequence Number. A terminal sequence number generated by the server to identify this object. This number is used in ATM and POS environments to uniquely identify transactions (with terminal name and date) for transaction management.
<a href="#">PointOfServiceData</a>	Aggregate	Optional	The Point of Service Data. This aggregate contains information about the environment in which this message originated.
<a href="#">ClientTerminalSeqNum</a>	NC-36	Optional	Client Terminal Sequence Number. A terminal sequence number generated by the client to identify this object. This number is used in ATM, POS, Branch, Call Center and Teller environments to uniquely identify transactions at the client (with terminal name and date). This number is often required when requesting supporting documentation related to a customer transaction.
end Elements from BaseEnvr			
begin Aggregate			
end Aggregate			

---

**Party Service Account Relationship Identifier <PartySvcAcctRelId>**

Party Service Account Relationship Identifier

Datatype: **Identifier**

---

**Party Service Account Relationship Information Aggregate  
<PartySvcAcctRelInfo>**

Party Service Account Relationship Information Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">PartySvcRelRef</a>	Aggregate	Required	Party Service Relationship Reference Aggregate
<a href="#">AcctRef</a>	Aggregate	Required	Account Reference Aggregate
<a href="#">DiscRef</a>	Aggregate	Optional	Disclosure Reference Aggregate
end Aggregate			

---

**Party Service Account Relationship Inquiry Request  
<PartySvcAcctRelInqRq>**

Party Service Account Relationship Inquiry Request

See the matching response message [PartySvcAcctRelInqRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier

<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">DocCtrlIn</a>	Aggregate	Optional	Document Control Input
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
begin-xor		Optional Repeating	
<a href="#">PartySvcAcctRelSel</a>	Aggregate	Required	
<a href="#">RecSelect</a>	lfxPath	Required	Record Select
end-xor			
end Aggregate			

---

**Party Service Account Relationship Inquiry Response**  
**<PartySvcAcctRelInqRs>**

Party Service Account Relationship Inquiry Response

See the matching request message [PartySvcAcctRelInqRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">DocCtrlOut</a>	Aggregate	Optional	Document Control Output
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">PartySvcAcctRelRec</a>	Aggregate	Required Repeating	Party Service Account Relationship Record
end-block			
end Aggregate			

---

**Party Service Account Relationship Keys Aggregate**  
**<PartySvcAcctRelKeys>**



## Party Service Account Relationship Keys Aggregate

Extends: [BaseKeys](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseKeys			
end Elements from BaseKeys			
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
begin-xor		Required	
<a href="#">PartySvcAcctRelId</a>	Identifier	Required	Party Service Account Relationship Identifier
begin-block		Required	
<a href="#">PartyKeys</a>	Aggregate	Required	Party Keys Aggregate
<a href="#">SvcKeys</a>	Aggregate	Required	Service Keys Aggregate
<a href="#">AcctKeys</a>	Aggregate	Required	Account Keys Aggregate
end-block			
end-xor			
end Aggregate			

---

## Party Service Account Relationship Modify Request <PartySvcAcctRelModRq>

Party Service Account Relationship Modify Request

See the matching response message [PartySvcAcctRelModRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">PartySvcAcctRelKeys</a>	Aggregate	Required	Party Service Account Relationship Keys Aggregate
		Required	

begin-block		Repeating	
<a href="#">PartySvcAcctRelInfo</a>	Aggregate	Required	Party Service Account Relationship Information Aggregate
begin-xor		Optional Repeating	
<a href="#">DelElements</a>	IfxPath	Required	An IfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to delete. It is an error if one attempts to delete Required fields.
<a href="#">UpdElements</a>	IfxPath	Required	An IfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to update. The new value of the updated element is in the accompanying xxxInfo aggregate.
<a href="#">NewElements</a>	IfxPath	Required	An IfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to add. The new value of the new elements is in the accompanying xxxInfo aggregate.
end-xor			
end-block			
end Aggregate			

## Party Service Account Relationship Modify Response <PartySvcAcctRelModRs>

Party Service Account Relationship Modify Response

See the matching request message [PartySvcAcctRelModRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">PartySvcAcctRelRec</a>	Aggregate	Required	Party Service Account Relationship

			Record
<a href="#">PartySvcAcctRelStatusRec</a>	Aggregate	Required	Party Service Account Relationship Status Record
end-xor			
end-block			
end Aggregate			

---

### Party Service Account Relationship Record <PartySvcAcctRelRec>

Party Service Account Relationship Record

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">PartySvcAcctRelId</a>	Identifier	Required	Party Service Account Relationship Identifier
<a href="#">PartySvcAcctRelInfo</a>	Aggregate	Required	Party Service Account Relationship Information Aggregate
<a href="#">PartySvcAcctRelEnvr</a>	Aggregate	Optional	Party Service Account Relationship Environment Aggregate
<a href="#">PartySvcAcctRelStatus</a>	Aggregate	Required	Party Service Account Relationship Status Aggregate
end Aggregate			

---

### Party Service Account Relationship Reference Aggregate <PartySvcAcctRelRef>

Party Service Account Relationship Reference Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">PartySvcAcctRelKeys</a>	Aggregate	Required	Party Service Account Relationship Keys

			Aggregate
<a href="#">PartySvcAcctRelRec</a>	Aggregate	Required	Party Service Account Relationship Record
<a href="#">PartySvcAcctRelInfo</a>	Aggregate	Required	Party Service Account Relationship Information Aggregate
end-xor			
end Aggregate			

---

### Party Service Account Relationship Selection Aggregate <PartySvcAcctRelSel>

Party Service Account Relationship Selection Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required Repeating	
<a href="#">PartySvcAcctRelKeys</a>	Aggregate	Required	Party Service Account Relationship Keys Aggregate
end-xor			
end Aggregate			

---

### Party Service Account Relationship Status Aggregate <PartySvcAcctRelStatus>

Party Service Account Relationship Status Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">PartySvcAcctRelStatusCode</a>	Open Enum	Required	Party Service Account Relationship Status Code  Valid values include: Deleted,

			Disabled, DisablePend, Enabled, EnablePend, Rejected, Suspended, Valid
<a href="#">StatusDesc</a>	C-255	Optional	Status Description
<a href="#">EffDt</a>	DateTime	Optional	Effective Date Time
<a href="#">ApprovalIdent</a>	NC-36	Optional	Approval Identifier
<a href="#">StatusModBy</a>	Open Enum	Optional	Status Modified By  Valid values include: BPP, BPPSR, BSP, BSPSR, CPP, CPPSR, CSP, CSPSR, Customer, FI, PSP
end Aggregate			

---

**Party Service Account Relationship Status Code**  
**<PartySvcAcctRelStatusCode>**

Party Service Account Relationship Status Code

Datatype: **Open Enum**

**Enumerated Values**

Value	Description	Is default
Valid		N
Deleted		N
Enabled	The Account has been enabled for this party-service	N
EnablePend	The Account has an enable request pending for the party-service	N
Disabled	The Account has been disabled for the party-service	N
DisablePend	The Account has a disable request pending for the pending	N
Rejected	The request to enable the Account for the party-service was rejected	N
Suspended	The Account has been suspended for the party-service	N

---

**Party Service Account Relationship Status Inquiry Request**  
**<PartySvcAcctRelStatusInqRq>**

Party Service Account Relationship Status Inquiry Request

See the matching response message [PartySvcAcctRelStatusInqRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
begin-xor		Optional Repeating	
<a href="#">PartySvcAcctRelSel</a>	Aggregate	Required	
<a href="#">RecSelect</a>	lfxPath	Required	Record Select
end-xor			
end Aggregate			

### Party Service Account Relationship Status Inquiry Response <PartySvcAcctRelStatusInqRs>

Party Service Account Relationship Status Inquiry Response

See the matching request message [PartySvcAcctRelStatusInqRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">PartySvcAcctRelStatusRec</a>	Aggregate	Optional Repeating	Party Service Account Relationship Status Record
end-block			

end Aggregate

---

### Party Service Account Relationship Status Modify Request <PartySvcAcctRelStatusModRq>

Party Service Account Relationship Status Modify Request

See the matching response message [PartySvcAcctRelStatusModRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">PartySvcAcctRelKeys</a>	Aggregate	Required	Party Service Account Relationship Keys Aggregate
<a href="#">PartySvcAcctRelStatus</a>	Aggregate	Required	Party Service Account Relationship Status Aggregate
end Aggregate			

---

### Party Service Account Relationship Status Modify Response <PartySvcAcctRelStatusModRs>

Party Service Account Relationship Status Modify Response

See the matching request message [PartySvcAcctRelStatusModRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			

begin-block		Optional	required if message is successful
<a href="#">PartySvcAcctRelStatusRec</a>	Aggregate	Required	Party Service Account Relationship Status Record
end-block			
end Aggregate			

---

### Party Service Account Relationship Status Record <PartySvcAcctRelStatusRec>

Party Service Account Relationship Status Record

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">PartySvcAcctRelId</a>	Identifier	Required	Party Service Account Relationship Identifier
<a href="#">PartySvcAcctRelStatus</a>	Aggregate	Required	Party Service Account Relationship Status Aggregate
end Aggregate			

---

### Party Service Relationship Add Message <PartySvcRelAddRq>

Party Service Relationship Add Message

See the matching response message [PartySvcRelAddRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">PartySvcRelInfo</a>	Aggregate	Required	Party Service Relationship Information Aggregate
	Aggregate		



<a href="#">PartySvcRelAuth</a>		Optional	Party Service Relationship Authentication Aggregate
end Aggregate			

## Party Service Relationship Add Response <PartySvcRelAddRs>

Party Service Relationship Add Response

See the matching request message [PartySvcRelAddRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">PartySvcRelRec</a>	Aggregate	Required	Party Service Relationship Record
<a href="#">PartySvcRelStatusRec</a>	Aggregate	Required	Party Service Relationship Status Record
end-xor			
end-block			
end Aggregate			

## Party Service Relationship Advise Message <PartySvcRelAdviseRq>

Party Service Relationship Advise Message

See the matching response message [PartySvcRelAdviseRs](#)

Datatype: **Aggregate**

--	--	--	--

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
begin-xor		Required	
<a href="#">PartySvcRelRec</a>	Aggregate	Required	Party Service Relationship Record
<a href="#">PartySvcRelStatusRec</a>	Aggregate	Required	Party Service Relationship Status Record
<a href="#">PartySvcRelAuthRec</a>	Aggregate	Required	Party Service Relationship Authentication Record
end-xor			
end Aggregate			

---

### Party Service Relationship Advise Response <PartySvcRelAdviseRs>

Party Service Relationship Advise Response

See the matching request message [PartySvcRelAdviseRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">PartySvcRelRec</a>	Aggregate	Required	Party Service Relationship Record
<a href="#">PartySvcRelStatusRec</a>	Aggregate	Required	Party Service Relationship Status Record
<a href="#">PartySvcRelAuthRec</a>	Aggregate	Required	Party Service Relationship Authentication Record
end-xor			
end-block			
end Aggregate			

---

## Party Service Relationship Audit Request <PartySvcRelAudRq>

Party Service Relationship Audit Request

See the matching response message [PartySvcRelAudRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
<a href="#">DtRange</a>	Aggregate	Optional	Date Range
<a href="#">Method</a>	Closed Enum	Optional Repeating	Method Valid values are limited to: Add, Advise, AuthMod, Can, Del, Mod, StatusMod
<a href="#">PartySvcRelKeys</a>	Aggregate	Optional Repeating	Party Service Relationship Keys Aggregate
end Aggregate			

---

## Party Service Relationship Audit Response <PartySvcRelAudRs>

Party Service Relationship Audit Response

See the matching request message [PartySvcRelAudRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header

end-block			
begin-block		Optional	required if message is successful
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">PartySvcRelRsMsg</a>	Aggregate	Optional Repeating	Party Service Relationship Response Messages Aggregate
end-block			
end Aggregate			

---

### Party Service Relationship Authentication Aggregate <PartySvcRelAuth>

Party Service Relationship Authentication Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
end Aggregate			

---

### Party Service Relationship Authorization Inquiry Request <PartySvcRelAuthInqRq>

Party Service Relationship Authorization Inquiry Request

See the matching response message [PartySvcRelAuthInqRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
begin-xor		Optional Repeating	
<a href="#">PartySvcRelSel</a>	Aggregate	Required	
end Aggregate			

<a href="#">RecSelect</a>	lfxPath	Required	Record Select
end-xor			
end Aggregate			

---

### Party Service Relationship Authorization Inquiry Response <PartySvcRelAuthInqRs>

Party Service Relationship Authorization Inquiry Response

See the matching request message [PartySvcRelAuthInqRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">PartySvcRelAuthRec</a>	Aggregate	Optional Repeating	Party Service Relationship Authentication Record
end-block			
end Aggregate			

---

### Party Service Relationship Authorization Modify Request <PartySvcRelAuthModRq>

Party Service Relationship Authorization Modify Request

See the matching response message [PartySvcRelAuthModRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
-----	------	-------	---------------------------

begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">PartySvcRelKeys</a>	Aggregate	Optional	Party Service Relationship Keys Aggregate
<a href="#">PartySvcRelAuth</a>	Aggregate	Required	Party Service Relationship Authentication Aggregate
end Aggregate			

---

### Party Service Relationship Authorizatio Modify Response <PartySvcRelAuthModRs>

Party Service Relationship Authorizatio Modify Response

See the matching request message [PartySvcRelAuthModRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">PartySvcRelAuthRec</a>	Aggregate	Required	Party Service Relationship Authentication Record
end-block			
end Aggregate			

---

### Party Service Relationship Authentication Record <PartySvcRelAuthRec>

Party Service Relationship Authentication Record

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">PartySvcRelId</a>	Identifier	Required	Party Service Relationship Identifier
<a href="#">PartySvcRelAuth</a>	Aggregate	Required	Party Service Relationship Authentication Aggregate
end Aggregate			

---

### Party Service Relationship Delete Request <PartySvcRelDelRq>

Party Service Relationship Delete Request

See the matching response message [PartySvcRelDelRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">PartySvcRelKeys</a>	Aggregate	Required	Party Service Relationship Keys Aggregate
end Aggregate			

---

### Party Service Relationship Delete Response <PartySvcRelDelRs>

Party Service Relationship Delete Response

See the matching request message [PartySvcRelDelRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	

<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">PartySvcRelRec</a>	Aggregate	Required	Party Service Relationship Record
<a href="#">PartySvcRelStatusRec</a>	Aggregate	Required	Party Service Relationship Status Record
end-xor			
end-block			
end Aggregate			

---

## Party Service Relationship Environment Aggregate <PartySvcRelEnvr>

Party Service Relationship Environment Aggregate

Extends: [BaseEnvr](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseEnvr			
<a href="#">CreatedDt</a>	DateTime	Required	Created Date/Time. The date/time the object was created.
<a href="#">CreateRefIdent</a>	NC-36	Optional	An identifier used to uniquely identify the creation of this object to the system that created the object. This will usually be a link to reference information used in creating the object.
<a href="#">ClientCreateDt</a>	DateTime	Optional	The created date/time as reported by the client. This can vary from the object creation date/time due to time zone differences, communication delays, etc
<a href="#">ClientBusinessDt</a>	DateTime	Optional	The date/time that the client recorded this object for operational purposes. This date/time will often be used to manage the availability of information or funds.
<a href="#">LastUpdateDt</a>	DateTime	Optional	Last update Date/Time. The date/time the object was created or modified. This field is intended to support



			optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LastUpdateRqUID</a>	UUID	Optional	Last update RqUID. The RqUID from the message that resulted in th object being created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LoginName</a>	C-40	Optional	The login name (or Id) of the individual that authorized this object to be created. This is typically used when the object is created on behalf of its owner by someone who is not normally represented as a Party (i.e., an employee or agent).
<a href="#">PartyKeys</a>	Aggregate	Optional	Reference to the Party that this object is owned by or authorized by.
<a href="#">CardKeys</a>	Aggregate	Optional	This is dependent on Card proposal. Currently this is implemented as the CardLogicalData aggregate.
<a href="#">PassbkKeys</a>	Aggregate	Optional	Currently PassbkAcceptData.
<a href="#">NetworkTrnData</a>	Aggregate	Optional	Network Transaction Information. Identification and location of the terminal from which the message originates.
<a href="#">ServerTerminalSeqNum</a>	NC-36	Optional	Server Terminal Sequence Number. A terminal sequence number generated by the server to identify this object. This number is used in ATM and POS environments to uniquely identify transactions (with terminal name and date) for transaction management.
<a href="#">PointOfServiceData</a>	Aggregate	Optional	The Point of Service Data. This aggregate contains information about the environment in which this message originated.
<a href="#">ClientTerminalSeqNum</a>	NC-36	Optional	Client Terminal Sequence Number. A terminal sequence number generated by the client to identify this object. This number is used in ATM, POS, Branch, Call Center and Teller environments to uniquely identify transactions at the client (with terminal name and date). This number is often required when requesting supporting documentation related to a customer transaction.
end Elements from BaseEnvr			
begin Aggregate			
end Aggregate			

---

**Party Service Relationship Identifier <PartySvcRelId>**

Party Service Relationship Identifier

Datatype: **Identifier**

---

**Party Service Relationship Information Aggregate <PartySvcRelInfo>**

Party-Service Relationship Information Aggregate provides a linkage between parties (often customers) and services. The aggregate includes references to disclosures that have been acknowledged by the subscribing party.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">PartyRef</a>	Aggregate	Required	Party Reference Aggregate
<a href="#">SvcRef</a>	Aggregate	Required	Service Reference Aggregate
begin-block		Optional Repeating	More than one disclosure can be associated with a Party-Svc relationship.
<a href="#">DiscRef</a>	Aggregate	Required	Disclosure Reference Aggregate
<a href="#">DiscAcceptDt</a>	Date Time	Optional	Disclosure Accept Date
<a href="#">DiscAckType</a>	Open Enum	Optional	Disclosure Acknowledge Type Valid values include: Accepted, OptedIn, OptedOut, Rejected
<a href="#">AcctKeys</a>	Aggregate	Optional	Service Funding account
end-block			
end Aggregate			

---

**Party Service Relationship Inquiry Request <PartySvcRelInqRq>**

## Party Service Relationship Inquiry Request

See the matching response message [PartySvcRelInqRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">DocCtrlIn</a>	Aggregate	Optional	Document Control Input
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
begin-xor		Optional Repeating	
<a href="#">PartySvcRelSel</a>	Aggregate	Required	
<a href="#">RecSelect</a>	lfxPath	Required	Record Select
end-xor			
end Aggregate			

---

## Party Service Relationship Inquiry Response <PartySvcRelInqRs>

Party Service Relationship Inquiry Response

See the matching request message [PartySvcRelInqRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">DocCtrlOut</a>	Aggregate	Optional	Document Control Output
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
	Aggregate		

<a href="#">PartySvcRelRec</a>		Required Repeating	Party Service Relationship Record
end-block			
end Aggregate			

---

### Party Service Relationship Keys Aggregate <PartySvcRelKeys>

Party Service Relationship Keys Aggregate

Extends: [BaseKeys](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseKeys			
end Elements from BaseKeys			
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
begin-xor		Required	
<a href="#">PartySvcRelId</a>	Identifier	Required	Party Service Relationship Identifier
begin-block		Required	
<a href="#">PartyKeys</a>	Aggregate	Required	Party Keys Aggregate
<a href="#">AcctKeys</a>	Aggregate	Required	Account Keys Aggregate
end-block			
end-xor			
end Aggregate			

---

### Party Service Relationship Modify Request <PartySvcRelModRq>

Party Service Relationship Modify Request

See the matching response message [PartySvcRelModRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
-----	------	-------	---------------------------

begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">PartySvcRelKeys</a>	Aggregate	Required	Party Service Relationship Keys Aggregate
begin-block		Required Repeating	
<a href="#">PartySvcRelInfo</a>	Aggregate	Required	Party Service Relationship Information Aggregate
begin-xor		Required Repeating	
<a href="#">DelElements</a>	lfxPath	Required	An lfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to delete. It is an error if one attempts to delete Required fields.
<a href="#">UpdElements</a>	lfxPath	Required	An lfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to update. The new value of the updated element is in the accompanying xxxInfo aggregate.
<a href="#">NewElements</a>	lfxPath	Required	An lfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to add. The new value of the new elements is in the accompanying xxxInfo aggregate.
end-xor			
end-block			
end Aggregate			

## Party Service Relationship Modify Response <PartySvcRelModRs>

Party Service Relationship Modify Response

See the matching request message [PartySvcRelModRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
	Aggregate		

<a href="#">MsgRsHdr</a>		Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">PartySvcRelRec</a>	Aggregate	Required	Party Service Relationship Record
<a href="#">PartySvcRelStatusRec</a>	Aggregate	Required	Party Service Relationship Status Record
end-xor			
end-block			
end Aggregate			

---

### Party Service Relationship Record <PartySvcRelRec>

Party Service Relationship Record

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">PartySvcRelId</a>	Identifier	Required	Party Service Relationship Identifier
<a href="#">PartySvcRelInfo</a>	Aggregate	Required	Party Service Relationship Information Aggregate
<a href="#">PartySvcRelEnvr</a>	Aggregate	Optional	Party Service Relationship Environment Aggregate
<a href="#">PartySvcRelAuth</a>	Aggregate	Optional	Party Service Relationship Authentication Aggregate
<a href="#">PartySvcRelStatus</a>	Aggregate	Required	Party Service Relationship Status Aggregate
end Aggregate			

---

### Party Service Relationship Reference Aggregate <PartySvcRelRef>

Party Service Relationship Reference Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">PartySvcRelKeys</a>	Aggregate	Required	Party Service Relationship Keys Aggregate
<a href="#">PartySvcRelRec</a>	Aggregate	Required	Party Service Relationship Record
<a href="#">PartySvcRelInfo</a>	Aggregate	Required	Party Service Relationship Information Aggregate
end-xor			
end Aggregate			

---

### Party Service Relationship Response Messages Aggregate <PartySvcRelRsMsg>

Party Service Relationship Response Messages Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">MsgRecDt</a>	Timestamp	Optional	Audit Record Creation Date
begin-xor		Required	
<a href="#">PartySvcRelAddRs</a>	Aggregate	Required	Party Service Relationship Add Response
<a href="#">PartySvcRelModRs</a>	Aggregate	Required	Party Service Relationship Modify Response
<a href="#">PartySvcRelDelRs</a>	Aggregate	Required	Party Service Relationship Delete Response
<a href="#">PartySvcRelInqRs</a>	Aggregate	Required	Party Service Relationship Inquiry Response
<a href="#">PartySvcRelAdviseRs</a>	Aggregate	Required	Party Service Relationship Advise Response
<a href="#">PartySvcRelStatusModRs</a>	Aggregate	Required	Party Service Relationship Status Modify Response
<a href="#">PartySvcRelStatusInqRs</a>	Aggregate	Required	Party Service Relationship Status Inquiry Response
<a href="#">PartySvcRelAuthModRs</a>	Aggregate	Required	Party Service Relationship Authorizatio Modify Response
<a href="#">PartySvcRelAuthInqRs</a>	Aggregate	Required	Party Service Relationship

			Authorization Inquiry Response
end-xor			
end Aggregate			

### Party Service Relationship Selection Aggregate <PartySvcRelSel>

Party Service Relationship Selection Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required Repeating	
<a href="#">PartySvcRelKeys</a>	Aggregate	Required	Party Service Relationship Keys Aggregate
end-xor			
end Aggregate			

### Party Service Relationship Status Aggregate <PartySvcRelStatus>

Party Service Relationship Status Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">PartySvcRelStatusCode</a>	Open Enum	Required	Party Service Relationship Status Code  Valid values include: Deleted, Disabled, DisablePend, Enabled, EnablePend, Rejected, Suspended, Valid
<a href="#">StatusDesc</a>	C-255	Optional	Status Description
<a href="#">EffDt</a>	DateTime	Optional	Effective Date Time
	Open		



<a href="#">StatusModBy</a>	Enum	Optional	Status Modified By Valid values include: BPP, BPPSR, BSP, BSPSR, CPP, CPPSR, CSP, CSPSR, Customer, FI, PSP
end Aggregate			

---

### Party Service Relationship Status Code <PartySvcRelStatusCode>

Party Service Relationship Status Code

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
Valid		N
Deleted		N
Enabled	The Account has been enabled for this party-service	N
EnablePend	The Account has an enable request pending for the party-service	N
Disabled	The Account has been disabled for the party-service	N
DisablePend	The Account has a disable request pending for the pending	N
Rejected	The request to enable the Account for the party-service was rejected	N
Suspended	The Account has been suspended for the party-service	N

---

### Party Service Relationship Status Inquiry Request <PartySvcRelStatusInqRq>

Party Service Relationship Status Inquiry Request

See the matching response message [PartySvcRelStatusInqRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			

<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
begin-xor		Optional Repeating	
<a href="#">PartySvcRelSel</a>	Aggregate	Required	
<a href="#">RecSelect</a>	lfxPath	Required	Record Select
end-xor			
end Aggregate			

---

### Party Service Relationship Status Inquiry Response <PartySvcRelStatusInqRs>

Party Service Relationship Status Inquiry Response

See the matching request message [PartySvcRelStatusInqRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">PartySvcRelStatusRec</a>	Aggregate	Optional Repeating	Party Service Relationship Status Record
end-block			
end Aggregate			

---

### Party Service Relationship Status Modify Request <PartySvcRelStatusModRq>

## Party Service Relationship Status Modify Request

See the matching response message [PartySvcRelStatusModRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">PartySvcRelKeys</a>	Aggregate	Required	Party Service Relationship Keys Aggregate
<a href="#">PartySvcRelStatus</a>	Aggregate	Required	Party Service Relationship Status Aggregate
end Aggregate			

---

## Party Service Relationship Status Modify Response <PartySvcRelStatusModRs>

Party Service Relationship Status Modify Response

See the matching request message [PartySvcRelStatusModRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">PartySvcRelStatusRec</a>	Aggregate	Required	Party Service Relationship Status Record
end-block			
end Aggregate			

---

## Party Service Relationship Status Record <PartySvcRelStatusRec>

Party Service Relationship Status Record

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">PartySvcRelId</a>	Identifier	Required	Party Service Relationship Identifier
<a href="#">PartySvcRelStatus</a>	Aggregate	Required	Party Service Relationship Status Aggregate
end Aggregate			

---

## Party Service Relationship Sync Request <PartySvcRelSyncRq>

Party Service Relationship Sync Request

See the matching response message [PartySvcRelSyncRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
<a href="#">PartySvcRelKeys</a>	Aggregate	Optional Repeating	Party Service Relationship Keys Aggregate
end Aggregate			

---

## Party Service Relationship Sync Response <PartySvcRelSyncRs>

Party Service Relationship Sync Response

See the matching request message [PartySvcRelSyncRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">PartySvcRelRsMsg</a>	Aggregate	Optional Repeating	Party Service Relationship Response Messages Aggregate
end-block			
end Aggregate			

---

**Party Request Message <PartySyncRq>**

See the matching response message [PartySyncRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
<a href="#">PartyKeys</a>	Aggregate	Optional Repeating	Party Keys Aggregate
end Aggregate			

---

**Party Response Message <PartySyncRs>**

See the matching request message [PartySyncRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">PartyRsMsg</a>	Aggregate	Optional Repeating	PartyResponse Message Record Aggregate
end-block			
end Aggregate			

---

**Party Withdrawal Preference <PartyWithdrawalPref>**

Party Withdrawal Preferences. Used to store the customer's preferred withdrawal parameters for "fast cash" ATM withdrawals.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">CurAmt</a>	Aggregate	Required	Currency Amount. Identifies the customer's preferred amount to be withdrawn.
<a href="#">AcctKeys</a>	Aggregate	Optional	Account Keys Aggregate
end Aggregate			

---

**Passbook Acceptance Data <PassbkAcceptData>**

Data that represents the passbook. Used for customer verification.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">PassbkId</a>	Identifier	Required	Passbook Identifier
<a href="#">PassbkInfo</a>	Aggregate	Required	Passbook Information Aggregate
end-xor			
end Aggregate			

---

**Passbook Request Message <PassbkAddRq>**

Passbook Add is used to add a logical passbook to an account. This is not used if a passbook relationship has already been established for an account.

See the matching response message [PassbkAddRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">PassbkInfo</a>	Aggregate	Required	Passbook Information Aggregate
end Aggregate			

---

**Passbook Response Message <PassbkAddRs>**

Response to a request to add a logical passbook to an account.

See the matching request message [PassbkAddRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
-----	------	-------	---------------------------

begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">PassbkRec</a>	Aggregate	Required	Passbook Record Aggregate
<a href="#">PassbkStatusRec</a>	Aggregate	Required	Passbook Status Record Aggregate
end-xor			
end-block			
end Aggregate			

---

### Passbook Request Message <PassbkAudRq>

These messages are used to audit changes made to a Passbook object.

See the matching response message [PassbkAudRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
<a href="#">DtRange</a>	Aggregate	Optional	Date Range
<a href="#">Method</a>	Closed Enum	Optional Repeating	Method Valid values are limited to: Add, Advise, AuthMod, Can, Del, Mod, StatusMod
<a href="#">PassbkKeys</a>	Aggregate	Optional Repeating	Passbook Keys Aggregate
end Aggregate			

---



## Passbook Response Message <PassbkAudRs>

Response to a request to audit changes made to a Passbook object.

See the matching request message [PassbkAudRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">PassbkRsMsg</a>	Aggregate	Optional Repeating	PassbookResponse Message Record Aggregate
end-block			
end Aggregate			

---

## Passbook Request Message <PassbkDelRq>

This message is used to delete a logical passbook from an account.

See the matching response message [PassbkDelRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">PassbkKeys</a>	Aggregate	Required	Passbook Keys Aggregate
end Aggregate			

---

## Passbook Response Message <PassbkDelRs>

Response to a request to delete a logical passbook from an account.

See the matching request message [PassbkDelRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">PassbkRec</a>	Aggregate	Required	Passbook Record Aggregate
<a href="#">PassbkStatusRec</a>	Aggregate	Required	Passbook Status Record Aggregate
end-xor			
end-block			
end Aggregate			

---

## Passbook Environment Aggregate <PassbkEnvr>

Passbook Environment Aggregate

Extends: [BaseEnvr](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseEnvr			
<a href="#">CreatedDt</a>	DateTime	Required	Created Date/Time. The date/time the object was created.
<a href="#">CreateReflident</a>	NC-36	Optional	An identifier used to uniquely identify the creation of this object to the system that created the object. This will usually be a link to reference information used in creating the object.

<a href="#">ClientCreateDt</a>	DateTime	Optional	The created date/time as reported by the client. This can vary from the object creation date/time due to time zone differences, communication delays, etc
<a href="#">ClientBusinessDt</a>	DateTime	Optional	The date/time that the client recorded this object for operational purposes. This date/time will often be used to manage the availability of information or funds.
<a href="#">LastUpdateDt</a>	DateTime	Optional	Last update Date/Time. The date/time the object was created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LastUpdateRqUID</a>	UUID	Optional	Last update RqUID. The RqUID from the message that resulted in the object being created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LoginName</a>	C-40	Optional	The login name (or Id) of the individual that authorized this object to be created. This is typically used when the object is created on behalf of its owner by someone who is not normally represented as a Party (i.e., an employee or agent).
<a href="#">PartyKeys</a>	Aggregate	Optional	Reference to the Party that this object is owned by or authorized by.
<a href="#">CardKeys</a>	Aggregate	Optional	This is dependent on Card proposal. Currently this is implemented as the CardLogicalData aggregate.
<a href="#">PassbkKeys</a>	Aggregate	Optional	Currently PassbkAcceptData.
<a href="#">NetworkTrnData</a>	Aggregate	Optional	Network Transaction Information. Identification and location of the terminal from which the message originates.
<a href="#">ServerTerminalSeqNum</a>	NC-36	Optional	Server Terminal Sequence Number. A terminal sequence number generated by the server to identify this object. This number is used in ATM and POS environments to uniquely identify transactions (with terminal name and date) for transaction management.
<a href="#">PointOfServiceData</a>	Aggregate	Optional	The Point of Service Data. This aggregate contains information about the environment in which this message originated.
<a href="#">ClientTerminalSeqNum</a>	NC-36	Optional	Client Terminal Sequence Number. A terminal sequence number generated by the client to identify this object. This number is used in ATM, POS, Branch, Call Center and Teller

			environments to uniquely identify transactions at the client (with terminal name and date). This number is often required when requesting supporting documentation related to a customer transaction.
end Elements from BaseEnvr			
begin Aggregate			
end Aggregate			

---

### Passbook Format <PassbkFormat>

Information on the format or layout of the associated passbook. This value is implementation specific (for example in an XFS implementation, could refer to the form to use when printing the passbook). If this field is blank or not present, this indicates to use the "default format" configured at the client.

Datatype: **C-40**

---

### Passbook Identifier <PassbkId>

Passbook Identifier

Datatype: **Identifier**

---

### Passbook Information Aggregate <PassbkInfo>

Passbook Information Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			

<a href="#">AcctRef</a>	Aggregate	Optional	Account Reference Aggregate
<a href="#">Name</a>	C-40	Optional	A short customer-provided name (or identifier) that differentiates one passbook from another. It would be assumed that this name could be entered or selected by an account holder, and is used to identify which passbook is being updated. This would likely only be necessary in an environment where multiple passbooks could be attached to the same account.
<a href="#">PassbkLastItemPrinted</a>	Identifier	Optional	The Id of the last successful PassbkItem that has been printed in the Passbook media.
<a href="#">PassbkLastBalPrinted</a>	Aggregate	Optional	The last balance printed in the passbook media. Typical usage would only consider the <Amt> field in the currency amount type. If this value is unknown, the field is omitted.
<a href="#">PassbkNextLine</a>	Long	Optional	The line number on which to start printing. This should always be updated to the last line number printed+1 or reset to 1 if the next line to print is on a new page. This number is one-based, so a value of 1 means to print at the top of the page. A value of zero or negative values are reserved, and should not be used. If this value is unknown, the field is omitted.
<a href="#">PassbkNextPage</a>	Long	Optional	The page number on which to start printing. This number is one-based, so a value of 1 means to print on the first page of the Passbook. A value of zero or negative values are reserved, and should not be used. If this value is unknown, the field is omitted.
<a href="#">PassbkFormat</a>	C-40	Optional	Information on the format or layout of the associated passbook. This value is implementation specific (for example in an XFS implementation, could refer to the form to use when printing the passbook). If this field is blank or not present, this indicates to use the "default format" configured at the client.
<a href="#">PassbkLinesPerPage</a>	Long	Optional	The number of lines on each passbook page for the physical media associated to this Passbook object.
<a href="#">PassbkPagesPerBook</a>	Long	Optional	The number of pages in the passbook in the physical media associated to this Passbook object.
<a href="#">ClientChgCode</a>	Open Enum	Optional	Client Change Code. The reason the Passbook information was modified due to an unexpected situation. This field is not used when updating the server in the case where the lines have printed correctly.

			Defined Values: None, ConsumerCancelled, TerminalExceptionAmountKnown, ConsumerExceptionAmountKnown, ConsumerDeclined, ConsumerTimeout
end Aggregate			

---

### Passbook Request Message <PassbkInqRq>

This message is used to inquire on the state of a passbook object.

See the matching response message [PassbkInqRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">DocCtrlIn</a>	Aggregate	Optional	Document Control Input
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
begin-xor		Optional Repeating	
<a href="#">PassbkSel</a>	Aggregate	Required	Passbook Selection Aggregate
<a href="#">RecSelect</a>	IfxPath	Required	Record Select
end-xor			
end Aggregate			

---

### Passbook Response Message <PassbkInqRs>

Response to an inquiry on the state of a passbook object.

See the matching request message [PassbkInqRq](#)

Datatype: **Aggregate**

---

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">DocCtrlOut</a>	Aggregate	Optional	Document Control Output
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">PassbkRec</a>	Aggregate	Required Repeating	Passbook Record Aggregate
end-block			
end Aggregate			

---

### Passbook Item Request Message <PassbkItemAddRq>

See the matching response message [PassbkItemAddRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">PassbkItemInfo</a>	Aggregate	Required	Passbook Item Information Aggregate
end Aggregate			

---

### Passbook Item Response Message <PassbkItemAddRs>

See the matching request message [PassbkItemAddRq](#)

Datatype: **Aggregate**

---

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">PassbkItemRec</a>	Aggregate	Required	Passbook Item Record Aggregate
<a href="#">PassbkItemStatusRec</a>	Aggregate	Required	Passbook Item Status Record Aggregate
end-xor			
end-block			
end Aggregate			

---

### Passbook Item Request Message <PassbkItemAudRq>

See the matching response message [PassbkItemAudRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
<a href="#">DtRange</a>	Aggregate	Optional	Date Range
<a href="#">Method</a>	Closed Enum	Optional Repeating	Method <hr/> Valid values are limited to: Add, Advise, AuthMod, Can, Del, Mod, StatusMod
<a href="#">PassbkItemKeys</a>	Aggregate	Optional Repeating	Passbook Item Keys Aggregate
end Aggregate			



---

## Passbook Item Response Message <PassbkItemAudRs>

See the matching request message [PassbkItemAudRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">PassbkItemRsMsg</a>	Aggregate	Optional Repeating	Passbook ItemResponse Message Record Aggregate
end-block			
end Aggregate			

---

## Passbook Item Request Message <PassbkItemDelRq>

See the matching response message [PassbkItemDelRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">PassbkItemKeys</a>	Aggregate	Required	Passbook Item Keys Aggregate
end Aggregate			

---

## Passbook Item Response Message <PassbkItemDelRs>

See the matching request message [PassbkItemDelRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">PassbkItemRec</a>	Aggregate	Required	Passbook Item Record Aggregate
<a href="#">PassbkItemStatusRec</a>	Aggregate	Required	Passbook Item Status Record Aggregate
end-xor			
end-block			
end Aggregate			

---

## Passbook Item Detail <PassbkItemDetail>

Details (e.g. line information) for this passbook item.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">PostedDt</a>	Date	Optional	Posted Date. For banking, the date on which the transaction was recorded against the account. For transfers, the date on which the entries were made on the books of the receiving Financial Institution.
<a href="#">TrnType</a>	Aggregate	Optional	Transaction Type
<a href="#">CompositeCurAmt</a>	Aggregate	Optional Repeating	The amount for the specific transaction this Passbook Item Detail represents.
<a href="#">BalAmt</a>	Aggregate	Optional	The account balance after the processing

			of this item, prior to the processing of subsequent items
<a href="#">Memo</a>	C-255	Optional Repeating	Description of this item. The size of the passbook printable area should not be inferred from the size of this field, as it would likely be smaller.
end Aggregate			

---

### Passbook Item Environment Aggregate <PassbkItemEnvr>

Passbook Item Environment Aggregate

Extends: [BaseEnvr](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseEnvr			
<a href="#">CreatedDt</a>	DateTime	Required	Created Date/Time. The date/time the object was created.
<a href="#">CreateRefIdent</a>	NC-36	Optional	An identifier used to uniquely identify the creation of this object to the system that created the object. This will usually be a link to reference information used in creating the object.
<a href="#">ClientCreateDt</a>	DateTime	Optional	The created date/time as reported by the client. This can vary from the object creation date/time due to time zone differences, communication delays, etc
<a href="#">ClientBusinessDt</a>	DateTime	Optional	The date/time that the client recorded this object for operational purposes. This date/time will often be used to manage the availability of information or funds.
<a href="#">LastUpdateDt</a>	DateTime	Optional	Last update Date/Time. The date/time the object was created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LastUpdateRqUID</a>	UUID	Optional	Last update RqUID. The RqUID from the message that resulted in th object being created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).

<a href="#">LoginName</a>	C-40	Optional	The login name (or Id) of the individual that authorized this object to be created. This is typically used when the object is created on behalf of its owner by someone who is not normally represented as a Party (i.e., an employee or agent).
<a href="#">PartyKeys</a>	Aggregate	Optional	Reference to the Party that this object is owned by or authorized by.
<a href="#">CardKeys</a>	Aggregate	Optional	This is dependent on Card proposal. Currently this is implemented as the CardLogicalData aggregate.
<a href="#">PassbkKeys</a>	Aggregate	Optional	Currently PassbkAcceptData.
<a href="#">NetworkTrnData</a>	Aggregate	Optional	Network Transaction Information. Identification and location of the terminal from which the message originates.
<a href="#">ServerTerminalSeqNum</a>	NC-36	Optional	Server Terminal Sequence Number. A terminal sequence number generated by the server to identify this object. This number is used in ATM and POS environments to uniquely identify transactions (with terminal name and date) for transaction management.
<a href="#">PointOfServiceData</a>	Aggregate	Optional	The Point of Service Data. This aggregate contains information about the environment in which this message originated.
<a href="#">ClientTerminalSeqNum</a>	NC-36	Optional	Client Terminal Sequence Number. A terminal sequence number generated by the client to identify this object. This number is used in ATM, POS, Branch, Call Center and Teller environments to uniquely identify transactions at the client (with terminal name and date). This number is often required when requesting supporting documentation related to a customer transaction.
end Elements from BaseEnvr			
begin Aggregate			
end Aggregate			

---

**Passbook Item Identifier <PassbkItemId>**

Passbook Item Identifier

Datatype: **Identifier**

---

## Passbook Item Information Aggregate <PassbkItemInfo>

Passbook Item Information Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">PassbkId</a>	Identifier	Required	The Passbook Object this specific item is associated with.
<a href="#">PassbkItemDetail</a>	Aggregate	Required	Details (e.g. line information) for this passbook item.
end Aggregate			

---

## Passbook Item Request Message <PassbkItemInqRq>

This message requests a list of Passbook Items. The items are returned in the order they would appear in a Passbook ? typically sorted by Date. Although included in this message, the <SelRangeDate> selection criteria would typically not be used in a Passbook update operation.

See the matching response message [PassbkItemInqRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">DocCtrlIn</a>	Aggregate	Optional	Document Control Input
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
begin-xor		Optional Repeating	
<a href="#">PassbkItemSel</a>	Aggregate	Required	Passbook Item Selection Aggregate
	IfxPath		

<a href="#">RecSelect</a>		Required	Record Select
end-xor			
end Aggregate			

### Passbook Item Response Message <PassbkItemInqRs>

The items are returned in the order they would appear in a Passbook ? typically sorted by Date.

See the matching request message [PassbkItemInqRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">DocCtrlOut</a>	Aggregate	Optional	Document Control Output
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">PassbkItemRec</a>	Aggregate	Required Repeating	Passbook Item Record Aggregate
end-block			
end Aggregate			

### Passbook Item Keys Aggregate <PassbkItemKeys>

Passbook Item Keys Aggregate

Extends: [BaseKeys](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseKeys			

end Elements from BaseKeys			
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
begin-xor		Required	
<a href="#">PassbkItemId</a>	Identifier	Required	Passbook Item Identifier
end-xor			
end Aggregate			

---

### Passbook Item Request Message <PassbkItemModRq>

See the matching response message [PassbkItemModRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">PassbkItemKeys</a>	Aggregate	Required	Passbook Item Keys Aggregate
begin-block		Required Repeating	
<a href="#">PassbkItemInfo</a>	Aggregate	Required	Passbook Item Information Aggregate
begin-xor		Optional Repeating	
<a href="#">DelElements</a>	IfxPath	Required	An IfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to delete. It is an error if one attempts to delete Required fields.
<a href="#">UpdElements</a>	IfxPath	Required	An IfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to update. The new value of the updated element is in the accompanying xxxInfo aggregate.
<a href="#">NewElements</a>	IfxPath	Required	An IfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to add. The new value of the new elements is in the accompanying xxxInfo aggregate.
end-xor			

end-block
end Aggregate

---

## Passbook Item Response Message <PassbkItemModRs>

See the matching request message [PassbkItemModRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">PassbkItemRec</a>	Aggregate	Required	Passbook Item Record Aggregate
<a href="#">PassbkItemStatusRec</a>	Aggregate	Required	Passbook Item Status Record Aggregate
end-xor			
end-block			
end Aggregate			

---

## Passbook Item Record Aggregate <PassbkItemRec>

Passbook Item Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">PassbkItemId</a>	Identifier	Required	Passbook Item Identifier
end Aggregate			



<a href="#">PassbkItemInfo</a>	Aggregate	Required	Passbook Item Information Aggregate
<a href="#">PassbkItemEnvr</a>	Aggregate	Optional	Passbook Item Environment Aggregate
<a href="#">PassbkItemStatus</a>	Aggregate	Required	Passbook Item Status Aggregate
end Aggregate			

---

### Passbook Item Reference Aggregate <PassbkItemRef>

Passbook Item Reference Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">PassbkItemKeys</a>	Aggregate	Required	Passbook Item Keys Aggregate
<a href="#">PassbkItemRec</a>	Aggregate	Required	Passbook Item Record Aggregate
<a href="#">PassbkItemInfo</a>	Aggregate	Required	Passbook Item Information Aggregate
end-xor			
end Aggregate			

---

### Passbook Item Request Message <PassbkItemRevRq>

See the matching response message [PassbkItemRevRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RevReasonCode</a>	Aggregate	Required	Reversal Reason Code
<a href="#">Desc</a>	C-80	Optional	Description

<a href="#">PassbkItemRqMsg</a>	Aggregate	Required	Passbook Item Request Message Record Aggregate
end Aggregate			

---

### Passbook Item Response Message <PassbkItemRevRs>

See the matching request message [PassbkItemRevRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
end Aggregate			

---

### Passbook Item Request Message Record Aggregate <PassbkItemRqMsg>

Passbook Item Request Message Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">PassbkItemAddRq</a>	Aggregate	Required	Passbook Item Add Request
<a href="#">PassbkItemModRq</a>	Aggregate	Required	Passbook Item Modify Request
<a href="#">PassbkItemDelRq</a>	Aggregate	Required	Passbook Item Delete Request
<a href="#">PassbkItemInqRq</a>	Aggregate	Required	Passbook Item Inquiry Request
<a href="#">PassbkItemAudRq</a>	Aggregate	Required	Passbook Item Audit Request
<a href="#">PassbkItemSyncRq</a>	Aggregate	Required	Passbook Item Sync Request

<a href="#">PassbkItemStatusModRq</a>	Aggregate	Required	Passbook Item Status Modify Request
<a href="#">PassbkItemStatusInqRq</a>	Aggregate	Required	Passbook Item Status Inquiry Request
<a href="#">RevRqUID</a>	UUID	Optional	Reversal Request Unique ID
end-xor			
end Aggregate			

---

### Passbook ItemResponse Message Record Aggregate <PassbkItemRsMsg>

Passbook ItemResponse Message Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">MsgRecDt</a>	Timestamp	Optional	Audit Record Creation Date
begin-xor		Required	
<a href="#">PassbkItemAddRs</a>	Aggregate	Required	Passbook Item Add Response
<a href="#">PassbkItemModRs</a>	Aggregate	Required	Passbook Item Modify Response
<a href="#">PassbkItemDelRs</a>	Aggregate	Required	Passbook Item Delete Response
<a href="#">PassbkItemRevRs</a>	Aggregate	Required	Passbook Item Reversal Response
<a href="#">PassbkItemInqRs</a>	Aggregate	Required	Passbook Item Inquiry Response
<a href="#">PassbkItemStatusModRs</a>	Aggregate	Required	Passbook Item Status Modify Response
<a href="#">PassbkItemStatusInqRs</a>	Aggregate	Required	Passbook Item Status Inquiry Response
end-xor			
end Aggregate			

---

### Passbook Item Selection Aggregate <PassbkItemSel>

Passbook Item Selection Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required Repeating	
<a href="#">PassbkItemKeys</a>	Aggregate	Required	Passbook Item Keys Aggregate
end-xor			
end Aggregate			

---

**Passbook Item Status Aggregate <PassbkItemStatus>**

Passbook Item Status Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">PassbkItemStatusCode</a>	Open Enum	Required	Passbook Item Status Code Valid values include: Deleted, NotPrinted, Printed, Unknown, Valid
<a href="#">StatusDesc</a>	C-255	Optional	Status Description
<a href="#">EffDt</a>	DateTime	Optional	Effective Date Time
<a href="#">ApprovalIdent</a>	NC-36	Optional	Approval Identifier
<a href="#">StatusModBy</a>	Open Enum	Optional	Status Modified By Valid values include: BPP, BPPSR, BSP, BSPSR, CPP, CPPSR, CSP, CSPSR, Customer, FI, PSP
end Aggregate			

---

**Passbook Item Status Code <PassbkItemStatusCode>**

The current status of the Passbook Item object.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
NotPrinted	The Item has not yet been printed	N
Printed	The Item has been printed	N
Valid		N
Deleted		N
Unknown	It is not known whether or not the item has been printed	N

### Passbook Item Request Message <PassbkItemStatusInqRq>

See the matching response message [PassbkItemStatusInqRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
begin-xor		Optional Repeating	
<a href="#">PassbkItemSel</a>	Aggregate	Required	Passbook Item Selection Aggregate
<a href="#">RecSelect</a>	IfxPath	Required	Record Select
end-xor			
end Aggregate			

### Passbook Item Response Message <PassbkItemStatusInqRs>

See the matching request message [PassbkItemStatusInqRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
-----	------	-------	---------------------------

begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">PassbkItemStatusRec</a>	Aggregate	Optional Repeating	Passbook Item Status Record Aggregate
end-block			
end Aggregate			

---

### Passbook Item Request Message <PassbkItemStatusModRq>

See the matching response message [PassbkItemStatusModRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">PassbkItemKeys</a>	Aggregate	Required	Passbook Item Keys Aggregate
<a href="#">PassbkItemStatus</a>	Aggregate	Required	Passbook Item Status Aggregate
end Aggregate			

---

### Passbook Item Response Message <PassbkItemStatusModRs>

See the matching request message [PassbkItemStatusModRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
-----	------	-------	---------------------------

begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">PassbkItemStatusRec</a>	Aggregate	Required	Passbook Item Status Record Aggregate
end-block			
end Aggregate			

---

### Passbook Item Status Record Aggregate <PassbkItemStatusRec>

Passbook Item Status Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">PassbkItemId</a>	Identifier	Required	Passbook Item Identifier
<a href="#">PassbkItemStatus</a>	Aggregate	Required	Passbook Item Status Aggregate
end Aggregate			

---

### Passbook Item Request Message <PassbkItemSyncRq>

See the matching response message [PassbkItemSyncRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier

<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
<a href="#">PassbkItemKeys</a>	Aggregate	Optional Repeating	Passbook Item Keys Aggregate
end Aggregate			

---

### Passbook Item Response Message <PassbkItemSyncRs>

See the matching request message [PassbkItemSyncRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">PassbkItemRsMsg</a>	Aggregate	Optional Repeating	Passbook ItemResponse Message Record Aggregate
end-block			
end Aggregate			

---

### Passbook Keys Aggregate <PassbkKeys>

Passbook Keys Aggregate

Extends: [BaseKeys](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseKeys			
end Elements from BaseKeys			



begin Aggregate			
<a href="#">SvclIdent</a>	Aggregate	Optional	Service Identifier
begin-xor		Required	
<a href="#">PassbkId</a>	Identifier	Required	Passbook Identifier
<a href="#">AcctKeys</a>	Aggregate	Required	An account key used to identify a deposit, card or loan account
end-xor			
end Aggregate			

---

### Passbook Last Balance Printed <PassbkLastBalPrinted>

The last balance printed in the passbook media. Typical usage would only consider the <Amt> field in the currency amount type. If this value is unknown, the field is omitted.

Extends: [CurAmt](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from CurAmt			
<a href="#">Amt</a>	Decimal	Optional	Amount.
<a href="#">CurCode</a>	Aggregate	Optional	Currency Code
end Elements from CurAmt			
begin Aggregate			
end Aggregate			

---

### Passbook Last Item Printed <PassbkLastItemPrinted>

The Id of the last successful PassbkItem that has been printed in the Passbook media.

Datatype: **Identifier**

---

## Passbook Lines Per Page <PassbkLinesPerPage>

The number of lines on each passbook page for the physical media associated to this Passbook object.

Datatype: **Long**

---

## Passbook Request Message <PassbkModRq>

This message is used to modify the passbook object - most likely to set the Id of the last printed Item, and the next line at which printing should begin. As a matter of processing this message, all Passbook Items with Item Ids before the Item Id specified in the field should be set to "Printed" by the server as this message is processed. Also, it is assumed that the server will also update the status of this Passbook object and recalculate the and fields based on what is currently outstanding.

See the matching response message [PassbkModRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">PassbkKeys</a>	Aggregate	Required	Passbook Keys Aggregate
begin-block		Required Repeating	
<a href="#">PassbkInfo</a>	Aggregate	Required	Passbook Information Aggregate
begin-xor		Optional Repeating	
<a href="#">DelElements</a>	IfxPath	Required	An IfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to delete. It is an error if one attempts to delete Required fields.
<a href="#">UpdElements</a>	IfxPath	Required	An IfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to update. The new value of the updated element is in the accompanying xxxInfo aggregate.
<a href="#">NewElements</a>	IfxPath	Required	An IfxPath (relative to a base of this IFX

			object's Info aggregate) which indicates which element to add. The new value of the new elements is in the accompanying xxxInfo aggregate.
end-xor			
end-block			
end Aggregate			

---

### Passbook Response Message <PassbkModRs>

This is the response message to a request to modify the passbook object – most likely to set the Id of the last printed Item, and the next line at which printing should begin.

See the matching request message [PassbkModRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">PassbkRec</a>	Aggregate	Required	Passbook Record Aggregate
<a href="#">PassbkStatusRec</a>	Aggregate	Required	Passbook Status Record Aggregate
end-xor			
end-block			
end Aggregate			

---

### Passbook New Items To Print <PassbkNewItemsToPrint>

This field indicates the number of passbook items still to be printed in the passbook media. If this data is available, this field should be recalculated

each time a new Passbook Item is added to the passbook.

Datatype: **Long**

---

**Passbook Next Line <PassbkNextLine>**

The line number on which to start printing. This should always be updated to the last line number printed+1 or reset to 1 if the next line to print is on a new page. This number is one-based, so a value of 1 means to print at the top of the page. A value of zero or negative values are reserved, and should not be used. If this value is unknown, the field is omitted.

Datatype: **Long**

---

**Passbook Next Page <PassbkNextPage>**

The page number on which to start printing. This number is one-based, so a value of 1 means to print on the first page of the Passbook. A value of zero or negative values are reserved, and should not be used. If this value is unknown, the field is omitted.

Datatype: **Long**

---

**Passbook Pages Per Book <PassbkPagesPerBook>**

The number of pages in the passbook in the physical media associated to this Passbook object.

Datatype: **Long**

---

**Passbook Record Aggregate <PassbkRec>**

## Passbook Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">PassbkId</a>	Identifier	Required	Passbook Identifier
<a href="#">PassbkInfo</a>	Aggregate	Required	Passbook Information Aggregate
<a href="#">PassbkEnvr</a>	Aggregate	Optional	Passbook Environment Aggregate
<a href="#">PassbkStatus</a>	Aggregate	Required	Passbook Status Aggregate
end Aggregate			

---

## Passbook Reference Aggregate <PassbkRef>

Passbook Reference Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">PassbkKeys</a>	Aggregate	Required	Passbook Keys Aggregate
<a href="#">PassbkRec</a>	Aggregate	Required	Passbook Record Aggregate
<a href="#">PassbkInfo</a>	Aggregate	Required	Passbook Information Aggregate
end-xor			
end Aggregate			

---

## Passbook Request Message <PassbkRevRq>

See the matching response message [PassbkRevRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RevReasonCode</a>	Aggregate	Required	Reversal Reason Code
<a href="#">Desc</a>	C-80	Optional	Description
<a href="#">PassbkRqMsg</a>	Aggregate	Required	Passbook Request Message Record Aggregate
end Aggregate			

---

**Passbook Response Message <PassbkRevRs>**

See the matching request message [PassbkRevRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
end Aggregate			

---

**Passbook Request Message Record Aggregate <PassbkRqMsg>**

Passbook Request Message Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	

<a href="#">PassbkAddRq</a>	Aggregate	Required	Passbook Add Request
<a href="#">PassbkModRq</a>	Aggregate	Required	Passbook Modify Request
<a href="#">PassbkDelRq</a>	Aggregate	Required	Passbook Delete Request
<a href="#">PassbkInqRq</a>	Aggregate	Required	Passbook Inquiry Request
<a href="#">PassbkAudRq</a>	Aggregate	Required	Passbook Audit Request
<a href="#">PassbkSyncRq</a>	Aggregate	Required	Passbook Sync Request
<a href="#">PassbkStatusModRq</a>	Aggregate	Required	Passbook Status Modify Request
<a href="#">PassbkStatusInqRq</a>	Aggregate	Required	Passbook Status Inquiry Request
<a href="#">RevRqUID</a>	UUID	Optional	Reversal Request Unique ID
end-xor			
end Aggregate			

---

### PassbookResponse Message Record Aggregate <PassbkRsMsg>

PassbookResponse Message Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">MsgRecDt</a>	Timestamp	Optional	Audit Record Creation Date
begin-xor		Required	
<a href="#">PassbkAddRs</a>	Aggregate	Required	Passbook Add Response
<a href="#">PassbkModRs</a>	Aggregate	Required	Passbook Modify Response
<a href="#">PassbkDelRs</a>	Aggregate	Required	Passbook Delete Response
<a href="#">PassbkRevRs</a>	Aggregate	Required	Passbook Reversal Response
<a href="#">PassbkInqRs</a>	Aggregate	Required	Passbook Inquiry Response
<a href="#">PassbkStatusModRs</a>	Aggregate	Required	Passbook Status Modify Response
<a href="#">PassbkStatusInqRs</a>	Aggregate	Required	Passbook Status Inquiry Response
end-xor			
end Aggregate			

---

## Passbook Selection Aggregate <PassbkSel>

Passbook Selection Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required Repeating	
<a href="#">PassbkKeys</a>	Aggregate	Required	Passbook Keys Aggregate
end-xor			
end Aggregate			

---

## Passbook Status Aggregate <PassbkStatus>

Passbook Status Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">PassbkStatusCode</a>	Open Enum	Required	Passbook Status Code  Valid values include: Deleted, MediaError, NewItems, UpToDate, Valid
<a href="#">StatusDesc</a>	C-255	Optional	Status Description
<a href="#">EffDt</a>	DateTime	Optional	Effective Date Time
<a href="#">ApprovalIdent</a>	NC-36	Optional	Approval Identifier
<a href="#">StatusModBy</a>	Open Enum	Optional	Status Modified By  Valid values include: BPP, BPPSR, BSP, BSPSR, CPP, CPPSR, CSP, CSPSR, Customer, FI, PSP
<a href="#">PassbkNewItemsToPrint</a>	Long	Optional	Passbook New Items To Print
end Aggregate			



---

## Passbook Status Code <PassbkStatusCode>

The current status of the Passbook object.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
UpToDate	All items in the Passbook object have been printed in the passbook media.	N
NewItems	The Passbook object has new items which have not been printed in the passbook media. Automated or Teller passbook updates are possible.	N
Valid		N
Deleted		N
MediaError	Passbook media may not be in sync with the Passbook object (i.e. an error occurred during printing, and the last successful line is not known). Manual intervention (e.g. from a Teller) is required in order to resynchronize the passbook media and object.	N

---

## Passbook Request Message <PassbkStatusInqRq>

This message requests the status of a passbook.

See the matching response message [PassbkStatusInqRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
begin-xor		Optional Repeating	
<a href="#">PassbkSel</a>	Aggregate	Required	Passbook Selection Aggregate
<a href="#">RecSelect</a>	IfxPath	Required	Record Select
end-xor			
end Aggregate			

---

## Passbook Response Message <PassbkStatusInqRs>

This message returns the status of a passbook.

See the matching request message [PassbkStatusInqRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">PassbkStatusRec</a>	Aggregate	Optional Repeating	Passbook Status Record Aggregate
end-block			
end Aggregate			

---

## Passbook Request Message <PassbkStatusModRq>

See the matching response message [PassbkStatusModRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">PassbkKeys</a>	Aggregate	Required	Passbook Keys Aggregate
<a href="#">PassbkStatus</a>	Aggregate	Required	Passbook Status Aggregate
end Aggregate			

end Aggregate

---

## Passbook Response Message <PassbkStatusModRs>

See the matching request message [PassbkStatusModRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">PassbkStatusRec</a>	Aggregate	Required	Passbook Status Record Aggregate
end-block			
end Aggregate			

---

## Passbook Status Record Aggregate <PassbkStatusRec>

Passbook Status Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">PassbkId</a>	Identifier	Required	Passbook Identifier
<a href="#">PassbkStatus</a>	Aggregate	Required	Passbook Status Aggregate
end Aggregate			

---

## Passbook Request Message <PassbkSyncRq>

See the matching response message [PassbkSyncRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
<a href="#">PassbkKeys</a>	Aggregate	Optional Repeating	Passbook Keys Aggregate
end Aggregate			

---

## Passbook Response Message <PassbkSyncRs>

See the matching request message [PassbkSyncRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">PassbkRsMsg</a>	Aggregate	Optional Repeating	PassbookResponse Message Record Aggregate
end-block			
end Aggregate			

---

**Past Due Payment Count <PastDuePmtCount>**

Number of Past Due Payments.

Datatype: **Long**

---

**Paternal Name <PaternalName>**

Paternal Name. The name of the person inherited from the father.

Datatype: **C-40**

---

**Path <Path>**

Indicates which element is the subject of concern.

Datatype: **lfxPath**

---

**Payee Account Number <PayeeAcctNum>**

This is the customer's identification with a particular Payee.

Datatype: **C-32**

---

**Payee Country <PayeeCountry>**

ISO code of the residual country of the payee.

Datatype: **NC-3**

---

### **Payee Type <PayeeType>**

Used to indicate the type of payee.

Datatype: **Closed Enum**

### **Enumerated Values**

Value	Description	Is default
FSPayee	Fully-Specified Payee. The customer has specified all the information necessary to pay this payee via check. Typically used for an individual or small business.	N
Std	Standard Payee. This is a payee that is well known to the CPP in terms of remittance information.	N
Xfer	Funds Transfer Payee. This payee type is used when the customer knows the financial institution and account information where a payment may be made using a funds transfer.	N

---

### **Payer Account Number <PayerAcctNum>**

Vendor Account Number with Customer (Payer). This is the payer's Accounts Payable account number for reconciliation.

Datatype: **C-32**

---

### **PayOff Amount Type <PayOffAmtType>**

Specifies the amount type for the balance included in the account payoff quote.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
AnnualFee	Annual Fee	N
AnnualFeeCr	Annual Fee Credit	N
CashAdv	Cash Advance Balance	N
ChkDb	Check Debit Balance	N
CommitmentFee	Commitment Fee	N
Credit	Credit Balance	N
CreditIntEarn	Credit Interest Earned	N
Disputes	Amount in dispute	N
Escrow	Amount in escrow	N
ExtCredit	Extended Credit	N
GovCharge	Amount of duties charged by the government	N
InCollections	Amount in collections	N
InsuranceFee	Insurance Fee	N
IntAccr	Interest Accrued	N
IntAccrEscrow	Interest Accrued for amount in Escrow	N
IntCashAdv	Interest Cash Advance	N
Interest	Interest	N
IntPurch	Interest Purchase	N
LateFee	Late Fee	N
LoanFee	Loan Fee	N
LockOut	Amount of LockOut to pay	N
OpenLedg	Opening balance for billing cycle	N
OtherFee	Other Fee	N
OutstndngCashAdv	Amount of cash advance authorizations	N
OutstndngPmtAth	Amount of payment authorizations	N
OutstndngPurch	Amount of purchase authorizations	N
Payments	Payments Made	N
PayOff	PayOff Amount	N
PayOffFee	Fees charged for payoff	N
PayOffFeeCr	Credits of PayOff Fees	N
PendAuthAmt	Total amount of authorizations	N
PrePayPenalty	Penalty Fee for Prepayment	N
Principal	Principal Balance	N
Purch	Purchase Balance	N
TaxWithheld	Tax Withheld on Credit Interest Earned	N
UnAppliedFund	Amount of Unapplied Funds	N
WriteOff	WriteOff balance	N

---

**Account PayOff Effective Date <PayOffEffDt>**

Effective date of the account payoff quote

Datatype: **Date**

---

**Account PayOff Request Date <PayOffRequestDt>**

Date and time the account payoff quote was requested

Datatype: **DateTime**

---

**Percent <Percent>**

Percent. Usage defined by context.

Datatype: **Decimal**

---

**Percentage Balance Type <PercentBalType>**

The type of balance on which the account hold is being applied.

Extends: [BalType](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BalType			
<a href="#">BalTypeSource</a>	Open Enum	Optional	Balance Type Source Valid values include: BAI, IFX, TMW Default Value: IFX
<a href="#">BalTypeValues</a>	Open Enum	Required	Balance Type Values Valid values include: Avail, AvailCredit, AvgLedger, ClosingLedger,



		ClosingOutstanding, CreditHeld, CreditLimit, Current, DebitHeld, Escrow, Ledger, MinLedger, OpeningLedger, OpeningOutstanding, Outstanding, PayoffAmt, Principal, RwdBonus, RwdReg, TotalHeld
end Elements from BalType		
begin Aggregate		
end Aggregate		

---

### Person Data <PersonData>

Person Data Aggregate

Extends: [PartyData](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from PartyData			
<a href="#">Contact</a>	Aggregate	Optional Repeating	Contact
<a href="#">IssuedIdent</a>	Aggregate	Optional Repeating	Issued Identification
end Elements from PartyData			
begin Aggregate			
<a href="#">PersonName</a>	Aggregate	Optional Repeating	Person Name
end Aggregate			

---

### Person Indicator <PersonIndicator>

True indicates that the information is for an individual.

Datatype: **Boolean**

---

## Person Name <PersonName>

The <PersonName> aggregate is used to specify a person's full name and, optionally, preferred name (nickname).

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">Language</a>	NC-17	Optional	Language
<a href="#">FullName</a>	C-96	Required	Full Name
<a href="#">FamilyName</a>	C-40	Optional Repeating	Family Name
<a href="#">GivenName</a>	C-40	Optional Repeating	Given Name
<a href="#">MiddleName</a>	C-40	Optional Repeating	Middle Name
<a href="#">NamePrefix</a>	C-8	Optional Repeating	Person Name Prefix
<a href="#">NameSuffix</a>	C-40	Optional Repeating	Name Suffix
<a href="#">MaternalName</a>	C-40	Optional Repeating	Maternal Name
<a href="#">PaternalName</a>	C-40	Optional Repeating	Paternal Name
<a href="#">MarriedName</a>	C-40	Optional Repeating	Married Name
<a href="#">PreferredName</a>	C-96	Optional	Preferred Name
<a href="#">LegalNameInd</a>	Boolean	Optional	Legal Name Indicator
<a href="#">PriorNameInd</a>	Boolean	Optional	Prior Name Indicator
end Aggregate			

---

## Person variant of PartyInfo <PersonPartyInfo>

Extends: [PartyInfo](#)

Datatype: **Aggregate**

---

Tag	Type	Usage	Description/Context notes
begin Elements from PartyInfo			
<a href="#">PartyPref</a>	Aggregate	Optional	Party Preference
<a href="#">FinancialData</a>	Aggregate	Optional Repeating	Financial Data
<a href="#">EstablishedDt</a>	Date	Optional	Established Date
<a href="#">ServiceLevel</a>	Open Enum	Optional	Service Level  Valid values include: BusinessClass, Coach, FirstClass, Gold, Platinum, Silver
<a href="#">OriginatingBranch</a>	C-32	Optional	Originating Branch
<a href="#">OriginatingBank</a>	C-32	Optional	Originating Bank
<a href="#">PreferredBranch</a>	C-32	Optional	Preferred Branch
<a href="#">PreferredBank</a>	C-32	Optional	Preferred Bank
<a href="#">ResponsibleBranch</a>	C-32	Optional	Responsible Branch
<a href="#">ResponsibleBank</a>	C-32	Optional	Responsible Bank
<a href="#">ResidenceCountry</a>	Aggregate	Optional	ResidenceCountry
<a href="#">TaxResidenceCountry</a>	Aggregate	Optional	TaxResidence Country
<a href="#">LastContactDt</a>	DateTime	Optional	Last Contact Date
<a href="#">LastPrivacyNoteDt</a>	Date	Optional	Last Privacy Note Date
<a href="#">ClosedDt</a>	Date	Optional	Closed Date
<a href="#">CloseReason</a>	C-80	Optional	Close Reason
<a href="#">PartyAffiliateData</a>	Aggregate	Optional Repeating	Party Affiliate Data
<a href="#">CreditRisk</a>	Aggregate	Optional Repeating	Credit Risk
<a href="#">CreditReviewTimeFrame</a>	Aggregate	Optional	Credit Review Time Frame
<a href="#">Correspondence</a>	Aggregate	Optional Repeating	Correspondence
<a href="#">RelationshipMgr</a>	Aggregate	Optional Repeating	Relationship Manager
<a href="#">ServicesProvided</a>	C-80	Optional	Services Provided
<a href="#">HouseHoldAddr</a>	Aggregate	Optional	House Hold Address
<a href="#">BankruptcyInd</a>	Boolean	Optional	Bankruptcy Indicator
<a href="#">BankruptcyData</a>	Aggregate	Optional Repeating	Bankruptcy Data
end Elements from PartyInfo			
begin Aggregate			
<a href="#">PersonData</a>	Aggregate	Required	Person Data
<a href="#">BirthDt</a>	Date	Optional	Date of Birth

<a href="#">BirthPlace</a>	C-96	Optional	Birth Place
<a href="#">DeceasedDt</a>	Date	Optional	Deceased Date
<a href="#">MotherMaidenName</a>	C-40	Optional	Mother's Maiden Name
<a href="#">SpouseName</a>	C-40	Optional	Spouse's Name.
<a href="#">Employment</a>	Aggregate	Optional Repeating	Employment
<a href="#">Gender</a>	Open Enum	Optional	Gender Valid values include: Female, Male
<a href="#">MaritalStat</a>	Open Enum	Optional	Marital Status Valid values include: Divorced, Married, Single, Widow
<a href="#">MilitaryRank</a>	C-32	Optional	Military Rank
<a href="#">Dependents</a>	Long	Optional	Dependents
<a href="#">OEDCode</a>	Open Enum	Optional	OED Code Valid values include: Director, Employee, Officer
<a href="#">OEDInstitution</a>	Open Enum	Optional	Officer, Employee, Director Institution. Valid values include: AffiliateFinancialInstitution, HoldingCompany, OtherFinancialInstitution, ThisFinancialInstitution, Unknown
<a href="#">OEDRelationship</a>	Open Enum	Optional	Officer, Employee, Director Relationship Valid values include: Brother, Father, Mother, Parent, Self, Sibling, Sister Default Value: Self
<a href="#">OccupationalStat</a>	Open Enum	Optional	Occupational Status Valid values include: Child, Employed, Retired, Self-Employed, Student, Unemployed
<a href="#">Nationality</a>	C-40	Optional	Nationality
<a href="#">ImmigrationStat</a>	Open Enum	Optional	Immigration Status Valid values include: Citizen, National, NonResidentAlien, ResidentAlien
<a href="#">EducationLevel</a>	C-80	Optional	Education Level
<a href="#">HomeOwnership</a>	Open Enum	Optional	Home Ownership Valid values include: Lease, Own, Rent

<a href="#">HeadofHouseHoldInd</a>	Boolean	Optional	Head of House Hold Indicator
end Aggregate			

### Telephone number <Phone>

Telephone number. Commonly used in contact aggregates.

Datatype: **Phone Number**

### Phone Number <PhoneNum>

Phone number aggregate.

Extends: [Locator](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from Locator			
end Elements from Locator			
begin Aggregate			
<a href="#">PhoneType</a>	Open Enum	Optional	Phone number type. Defined values: DayPhone, EvePhone, DayFax, EveFax
<a href="#">Phone</a>	Phone Number	Required	Phone Number.
end Aggregate			

### Phone number type <PhoneType>

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
DayPhone		N
EvePhone		N
DayFax		N
EveFax		N
Mobile		N
Home		N
Msg		N
Work		N
Fax		N
Pager		N

---

### Photo Indicator <PhotoInd>

Indicates if there is a photo on the card

Datatype: **Boolean**

---

### Physical location of the teller, CSR or operator <PhysicalLocIdent>

This may or may not be the same as the . An example is an operator at a central operations center logging on as if they were an operator located at a specific branch. If this element is not included, the assumption is that totals move with the teller, regardless of location.

Datatype: **NC-36**

---

### Physical Location Name <PhysicalLocName>

Datatype: **C-40**

---

**Pickup City <PickupCity>**

The city or town from where a rental vehicle was picked up.

Datatype: **C-32**

---

**Pickup Country <PickupCountry>**

The Country Code of the country where a rental vehicle was picked up.

Extends: [CountryCode](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from CountryCode			
<a href="#">CountryCodeSource</a>	Open Enum	Optional	Country Code Source <hr/> Valid values include: FIPS-10, ISO3166-Alpha-2, ISO3166-Alpha-3, ISO3166-Numeric, ITU-E.164, STANAG-1059  Default Value: ISO3166-Alpha-3
<a href="#">CountryCodeValue</a>	Open Enum	Required	Country Code Value <hr/>
end Elements from CountryCode			
begin Aggregate			
end Aggregate			

---

**Pickup Date <PickupDt>**

The date when the vehicle was picked up from the rental agency.

Datatype: **Date**

---

**Pickup Location <PickupLoc>**

The name of the location where the vehicle was picked up. This may not be the same as the vehicle agency name if the vehicle was picked up at another location (i.e., hotel, airport)

Datatype: **C-40**

---

**Pickup Region <PickupRegion>**

A code identifying the region where a rental vehicle was picked up.

Datatype: **C-32**

---

**Pickup State/Province <PickupStateProv>**

The State/Province of the country where a rental vehicle was picked up.

Datatype: **C-32**

---

**Pickup Time <PickupTime>**

The time when the vehicle was picked up from the rental agency.

Datatype: **Time**

---

**Picture Reference Identification <PictureRefIdent>**



Reference Number for the picture to be printed on a plastic.

Datatype: **NC-36**

---

**Personal Identification Number <PIN>**

Clear text PIN value

Datatype: **NC-32**

---

**PIN Block <PINBlock>**

PIN pad data, used in a signon using mag stripe reader with PIN pad.

Datatype: **NC-32**

---

**PIN Data <PINData>**

Contains the PIN value in clear text or encrypted.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">CryptType</a>	Open Enum	Required	Encryption Type. Valid values include: ACBC, ACFB, ACM, AECB, AOFB, CBC, CFB, ECB, None, OFB, PKCS#1, PKCS#10, PKCS#7, RSA#1, TCBC, TCBC-I, TCFB, TCFB-P, TECB, TOFB, TOFB-I, TR-31
<a href="#">SecObid</a>	Identifier	Optional Repeating	Security Object Identifier
begin-xor		Required	

<a href="#">PIN</a>	NC-32	Required	Personal Identification Number
<a href="#">CryptPIN</a>	Aggregate	Required	Encrypted PIN
end-xor			
end Aggregate			

## Pin Delivery Instruction <PinDeliveryInstruction>

Identifies the delivery instructions for a PIN mailer document.

Extends: [DeliveryInstruction](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from DeliveryInstruction			
<a href="#">DeliveryMethod</a>	Open Enum	Optional	Delivery Method  Valid values include: Channel, Courier, Email, Fax, HomeBank, InPerson, LocalPrinter, OverNight, Phone, Post, SMS, TwoDay, UPS, URL
<a href="#">DeliveryMedia</a>	Open Enum	Optional	Delivery Media  Valid values include: CD, Diskette, DVD, Paper  Default Value: Paper
<a href="#">DeliveryDestination</a>	Open Enum	Optional	Delivery destination  Valid values include: AlternateAddress, Branch, ChildAcct, Consumer, ParentAcct, ParentChildAcct  Default Value: Consumer
<a href="#">Locator</a>	Abstract Aggregate	Optional	The Locator is the delivery destination. It is most commonly a postal address and takes precedence over the Locator information in Contact. <b>Valid Aggregates are:</b> Email PhoneNum PostAddr
<a href="#">Contact</a>	Aggregate	Optional	Contact
end Elements from DeliveryInstruction			
begin Aggregate			
end Aggregate			

---

**Pinmailer Date <PinmailerDt>**

Date that a PIN mailer will be or was produced.

Datatype: **DateTime**

---

**Pin Only Indicator <PinOnlyInd>**

Indicates if this card order request is only for the issuance of a PIN.

Datatype: **Boolean**

---

**Pin Waive <PinWaive>**

Automatically prevents the system generated PIN calculation and PIN mailer creation.

Datatype: **Boolean**

---

**Platform Xfs Action <PlatformXfsAction>**

The actions required to manage the error as defined by the XFS specification.

Example actions from the XFS specifications include:

WFS\_ERR\_ACT\_NOACTION = 0, WFS\_ERR\_ACT\_RESET = 1,  
WFS\_ERR\_ACT\_SWERROR = 2, WFS\_ERR\_ACT\_CONFIG = 4,  
WFS\_ERR\_ACT\_HWCLEAR = 8, WFS\_ERR\_ACT\_HWMMAINT = 16,  
WFS\_ERR\_ACT\_SUSPEND = 32

This value is expected as an integer value, not outside the range 0-4294967295, that is defined as an action by the XFS standard.

Datatype: **Decimal**

---

**Platform XFS Application Identifier <PlatformXfsAppIdent>**

The application ID associated with the session that raised the alert (if any)

Datatype: **C-255**

---

**Platform XFS Command Code <PlatformXfsCmdCode>**

The WFSExecute “command” code or the WFSGetInfo “category” code; not used for other command completions. This value is expected as an integer value in the range 0- 4294967295.

Datatype: **Decimal**

---

**Platform XFS Command HResult <PlatformXfsCmdHResult>**

The Device Command Result code as specified by the XFS device standards.

Datatype: **Long**

---

**Platform XFS Description <PlatformXfsDesc>**

A vendor-specific description of the error.

Datatype: **C-unbound**

---

**Platform XFS Event Identifier <PlatformXfsEventIdent>**

The Id of the event that raised the alert (for unsolicited events). This value is expected as an integer value in the range 0- 4294967295.

Datatype: **Decimal**

---

**Platform XFS Logical Name <PlatformXfsLogicalName>**

The high-level, pre-defined logical name of a service used by the XFS Manager as a key to obtain the specific configuration information needed. (e.g. "SYSJOURNAL1", "PASSBOOKPTR3", "CASHDISP02") Here, it is used to identify the service that raised the alert.

Datatype: **C-255**

---

**Platform XFS Physical Name <PlatformXfsPhysicalName>**

The physical service name of the service that raised the alert.

Datatype: **C-255**

---

**Platform XFS Request Identifier <PlatformXfsRequestIdent>**

The sequence number (in decimal form) assigned by the XFS Manager for the request that raised the alert. This value is expected as an integer value in the range 0- 4294967295.

Datatype: **Long**

---

### **Platform XFS State <PlatformXfsState>**

The new state of the physical device managed by the service.

Example states from the XFS Specifications include:

WFS\_STAT\_DEVONLINE = 0, WFS\_STAT\_DEVFFLINE = 1,  
WFS\_STAT\_POWEROFF = 2, WFS\_STAT\_DEVNODEVICE = 3,  
WFS\_STAT\_DEVHWERROR = 4, WFS\_STAT\_DEVUSERERROR = 5,  
WFS\_STAT\_DEVBUSY = 6

This value is expected as an integer value, not outside the range 0-4294967295, that is defined as a state by the XFS standard.

Datatype: **Decimal**

---

### **Platform XFS Timestamp <PlatformXfsTimestamp>**

The time that the alert was raised, based on the XFS Platform date/time. The client should include as much detail as is available (down to the fraction of a second).

Datatype: **DateTime**

---

### **Platform XFS Workstation Name <PlatformXfsWkstName>**

The name of the workstation in which the logical service name is defined (if any)

Datatype: **C-255**

---

### **Payment Request Message <PmtAddRq>**

The Payment Add message allows a client to schedule a single payment, where the amount is input by the customer or from a presented bill. The Payment Add message may reference an existing payee or add a new one, by specifying the information within <RemitInfo> <PayeeInfo>. If the Payment service provider supports <CustPayeeId>, the client must

specify an existing <CustPayeeId> or include the <CustPayeeInfo> aggregate, but not both. Whether or not the Payment service provider supports <CustPayeeId>, the <CustPayeeInfo> aggregate may specify an existing standard payee or create a new fully specified or transfer payee. It is not possible to modify an existing payee within an Add Payment message. The customer may modify a payee via <CustPayeeModRq>.

See the matching response message [PmtAddRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">PmtInfo</a>	Aggregate	Required	Payment Information Aggregate
end Aggregate			

### Payment Response Message <PmtAddRs>

The <PmtAddRs> message is used to provide an acknowledgement to a customer-initiated <PmtAddRq>. It is also used in the Payment Audit Response <PmtAudRs> and Payment Synchronization Response <PmtSyncRs> to communicate to the client that payments have been added by the customer using <PmtAddRq> and by the Pay provider using the customer's Recurring Payment Models.

See the matching request message [PmtAddRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	

<a href="#">PmtRec</a>	Aggregate	Required	Payment Record Aggregate
<a href="#">PmtStatusRec</a>	Aggregate	Required	Payment Status Record Aggregate
end-xor			
end-block			
end Aggregate			

---

### Payment Amount Option <PmtAmtOption>

The method to extract the payment on the scheduled date.

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
FullBalance	Full Balance	Y
MinimumPayment	Minimum Payment	N
InterestOnly	Interest Only	N
PercentOfBalance	Percent Of Balance	N
FixedAmt	Fixed Amount	N

---

### Payment Authorization Count <PmtAthCount>

For Pay providers that require an authorization from the customer's CPP. This is the number of times that the payment has been submitted for authorization.

Datatype: **Long**

---

### Payment Request Message <PmtAudRq>

Payment Audit . Used to audit changes to payment objects.

See the matching response message [PmtAudRs](#)



Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
<a href="#">DtRange</a>	Aggregate	Optional	Date Range
<a href="#">Method</a>	Closed Enum	Optional Repeating	Method  Valid values are limited to: Add, Advise, AuthMod, Can, Del, Mod, StatusMod
<a href="#">PmtKeys</a>	Aggregate	Optional Repeating	Payment Keys Aggregate
end Aggregate			

**Payment Response Message <PmtAudRs>**

Payment Audit . Used to audit changes to payment objects.

See the matching request message [PmtAudRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">PmtRsMsg</a>	Aggregate	Optional Repeating	PaymentResponse Message Record Aggregate
end-block			
end Aggregate			

---

## Payment Batch Request Message <PmtBatchAddRq>

The Payment Batch Add request message allows a client to transmit an ISO 20022 defined message containing payment initiation instructions. The batch will include one or more individual payments that are requests to move funds from a debtor to a creditor. Payment Batch Add messages are sent from an initiating party or forwarding institution to another forwarding institution, a settlement organization, or final agent. Please refer to the ISO 20022 website, [www.iso20022.org](http://www.iso20022.org), for the Message Definition Report and XML schema. The IFX defined remittance detail can reside as an optional complex type within the payment transaction.

See the matching response message [PmtBatchAddRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">PmtBatchInfo</a>	Aggregate	Required	Payment Batch Information Aggregate
end Aggregate			

---

## Payment Batch Response Message <PmtBatchAddRs>

The Payment Batch Add response message is used to provide an acknowledgement to the initiating organization of the receipt of a payment batch. Although the underlying payment batch is an ISO 20022 message this will usually not be returned on the response message.

See the matching request message [PmtBatchAddRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header

end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">PmtBatchRec</a>	Aggregate	Required	Payment Batch Record Aggregate
<a href="#">PmtBatchStatusRec</a>	Aggregate	Required	Payment Batch Status Record Aggregate
end-xor			
end-block			
end Aggregate			

---

### Payment Batch Request Message <PmtBatchCanRq>

The Payment Batch Cancel request message allows a client to request cancellation of one or more ISO 20022 defined payments, i.e. Customer Credit Transfer Initiation or Customer Direct Debit Initiation messages.

See the matching response message [PmtBatchCanRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">PmtBatchKeys</a>	Aggregate	Required	Payment Batch Keys Aggregate
end Aggregate			

---

### Payment Batch Response Message <PmtBatchCanRs>

The Payment Batch Cancel response message is used to provide an acknowledgement to the initiating organization of the receipt of a payment batch cancel request.

See the matching request message [PmtBatchCanRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
-----	------	-------	---------------------------

begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">PmtBatchRec</a>	Aggregate	Required	Payment Batch Record Aggregate
<a href="#">PmtBatchStatusRec</a>	Aggregate	Required	Payment Batch Status Record Aggregate
end-xor			
end-block			
end Aggregate			

---

### Payment Batch Environment Aggregate <PmtBatchEnvr>

Payment Batch Environment Aggregate

Extends: [BaseEnvr](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseEnvr			
<a href="#">CreatedDt</a>	DateTime	Required	Created Date/Time. The date/time the object was created.
<a href="#">CreateRefIdent</a>	NC-36	Optional	An identifier used to uniquely identify the creation of this object to the system that created the object. This will usually be a link to reference information used in creating the object.
<a href="#">ClientCreateDt</a>	DateTime	Optional	The created date/time as reported by the client. This can vary from the object creation date/time due to time zone differences, communication delays, etc
<a href="#">ClientBusinessDt</a>	DateTime	Optional	The date/time that the client recorded this object for operational purposes. This date/time will often be used to manage the availability of information or funds.
<a href="#">LastUpdateDt</a>	DateTime	Optional	Last update Date/Time. The date/time the object was created or modified.

			This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LastUpdateRqUID</a>	UUID	Optional	Last update RqUID. The RqUID from the message that resulted in the object being created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LoginName</a>	C-40	Optional	The login name (or Id) of the individual that authorized this object to be created. This is typically used when the object is created on behalf of its owner by someone who is not normally represented as a Party (i.e., an employee or agent).
<a href="#">PartyKeys</a>	Aggregate	Optional	Reference to the Party that this object is owned by or authorized by.
<a href="#">CardKeys</a>	Aggregate	Optional	This is dependent on Card proposal. Currently this is implemented as the CardLogicalData aggregate.
<a href="#">PassbkKeys</a>	Aggregate	Optional	Currently PassbkAcceptData.
<a href="#">NetworkTrnData</a>	Aggregate	Optional	Network Transaction Information. Identification and location of the terminal from which the message originates.
<a href="#">ServerTerminalSeqNum</a>	NC-36	Optional	Server Terminal Sequence Number. A terminal sequence number generated by the server to identify this object. This number is used in ATM and POS environments to uniquely identify transactions (with terminal name and date) for transaction management.
<a href="#">PointOfServiceData</a>	Aggregate	Optional	The Point of Service Data. This aggregate contains information about the environment in which this message originated.
<a href="#">ClientTerminalSeqNum</a>	NC-36	Optional	Client Terminal Sequence Number. A terminal sequence number generated by the client to identify this object. This number is used in ATM, POS, Branch, Call Center and Teller environments to uniquely identify transactions at the client (with terminal name and date). This number is often required when requesting supporting documentation related to a customer transaction.
end Elements from BaseEnvr			
begin Aggregate			
end Aggregate			

---

**Payment Batch Identifier <PmtBatchId>**

Payment Batch Identifier

Datatype: **Identifier**

---

**Payment Batch Information Aggregate <PmtBatchInfo>**

Payment Batch Information Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">pain.001.001.01</a>	External Aggregate	Required	ISO 20022 Core Credit Transfer Initiation Version 1.
<a href="#">pain.001.001.02</a>	External Aggregate	Required	ISO 20022 Customer Credit Transfer Initiation Version 2
<a href="#">pain.001.001.03</a>	External Aggregate	Required	ISO 20022 Customer Credit Transfer Initiation Version 3.
<a href="#">pain.008.001.01</a>	External Aggregate	Required	ISO 20022 Customer Direct Debit Initiation Version 1.
<a href="#">pain.008.001.02</a>	External Aggregate	Required	ISO 20022 Customer Direct Debit Initiation Version 2.
<a href="#">pain.006.001.01</a>	External Aggregate	Required	ISO 20022 Payment Cancellation Request Version 1
<a href="#">camt.055.001.01</a>	External Aggregate	Required	ISO 20022 Customer Payment Cancellation Request Version 1.
<a href="#">pain.007.001.01</a>	External Aggregate	Required	ISO 20022 Customer Payment Reversal Version 1
<a href="#">pain.007.001.02</a>	External Aggregate	Required	ISO 20022 Customer Payment Reversal Version 2.
end-xor			
end Aggregate			

---

## Payment Batch Keys Aggregate <PmtBatchKeys>

Payment Batch Keys Aggregate

Extends: [BaseKeys](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseKeys			
end Elements from BaseKeys			
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
begin-xor		Required	
<a href="#">PmtBatchId</a>	Identifier	Required	Payment Batch Identifier
end-xor			
end Aggregate			

---

## Payment Batch Record Aggregate <PmtBatchRec>

Payment Batch Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">PmtBatchId</a>	Identifier	Required	Payment Batch Identifier
<a href="#">PmtBatchInfo</a>	Aggregate	Required	Payment Batch Information Aggregate
<a href="#">PmtBatchEnvr</a>	Aggregate	Optional	Payment Batch Environment Aggregate
<a href="#">PmtBatchStatus</a>	Aggregate	Required	Payment Batch Status Aggregate
end Aggregate			

---

## Payment Batch Reference Aggregate <PmtBatchRef>

Payment Batch Reference Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">PmtBatchKeys</a>	Aggregate	Required	Payment Batch Keys Aggregate
<a href="#">PmtBatchRec</a>	Aggregate	Required	Payment Batch Record Aggregate
<a href="#">PmtBatchInfo</a>	Aggregate	Required	Payment Batch Information Aggregate
end-xor			
end Aggregate			

---

## Payment Batch Request Message <PmtBatchRevRq>

The Payment Batch Reversal message allows a client to request reversal of one or more ISO 20022 defined payments, i.e. Customer Credit Transfer Initiation or Customer Direct Debit Initiation messages.

See the matching response message [PmtBatchRevRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RevReasonCode</a>	Aggregate	Required	Reversal Reason Code
<a href="#">Desc</a>	C-80	Optional	Description
<a href="#">PmtBatchRqMsg</a>	Aggregate	Required	Payment Batch Request Message Record Aggregate
end Aggregate			

---



## Payment Batch Response Message <PmtBatchRevRs>

The Payment Batch Reversal response message is used to provide an acknowledgement to the initiating organization of the receipt of a payment batch reversal request.

See the matching request message [PmtBatchRevRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
end Aggregate			

---

## Payment Batch Request Message Record Aggregate <PmtBatchRqMsg>

Payment Batch Request Message Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">PmtBatchAddRq</a>	Aggregate	Required	Payment Batch Add Request
<a href="#">PmtBatchCanRq</a>	Aggregate	Required	Payment Batch Cancel Request
<a href="#">RevRqUUID</a>	UUID	Optional	Reversal Request Unique ID
end-xor			
end Aggregate			

---

## Payment Batch Selection Aggregate <PmtBatchSel>

## Payment Batch Selection Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required Repeating	
<a href="#">PmtBatchKeys</a>	Aggregate	Required	Payment Batch Keys Aggregate
end-xor			
end Aggregate			

---

## PmtBatch Status Request Message <PmtBatchStatAdviseRq>

The Payment Batch Status Advise message allows for the service provider to push status information to the originator of the Payment Batch Add Request without any action necessary by the originator. Only a server response is necessary to confirm receipt of the advice message.

See the matching response message [PmtBatchStatAdviseRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
begin-xor		Required	
<a href="#">PmtBatchStatRec</a>	Aggregate	Required	PmtBatch Status Record Aggregate
<a href="#">PmtBatchStatStatusRec</a>	Aggregate	Required	PmtBatch Status Status Record Aggregate
end-xor			
end Aggregate			

---

## PmtBatch Status Response Message <PmtBatchStatAdviseRs>

Response to Batch Payment Status Advise Request.

See the matching request message [PmtBatchStatAdviseRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">PmtBatchStatRec</a>	Aggregate	Required	PmtBatch Status Record Aggregate
<a href="#">PmtBatchStatStatusRec</a>	Aggregate	Required	PmtBatch Status Status Record Aggregate
end-xor			
end-block			
end Aggregate			

### Payment Batch Status Code <PmtBatchStatCode>

The current status of a PmtBatch object. This code identifies the payment batch processing status.

Datatype: **Closed Enum**

### Enumerated Values

Value	Description	Is default
ACTC	AcceptedTechnicalValidation. Authentication and syntactical and semantic validation are successful.	N
ACCP	AcceptedCustomerProfile. Preceding check of technical validation was successful. Customer profile check was also successful. This includes the assessment of the static risks.	N
ACSP	AcceptedSettlementInProgress. All preceding checks such as technical validation and customer profile were successful. Dynamic risk assessment is now also successful and therefore the payment initiation has been accepted for execution.	N
ACSC	AcceptedSettlementCompleted. Settlement on the debtor's account	N

	has been completed. Usage: this can be used by the first agent to report to the debtor that the transaction has been completed. Warning: this status is provided for transaction status reasons, not for financial information. It can only be used after bilateral agreement between debtor and first agent – e.g. in cases where debit advices are not sent, but only end-of-day statements.	
RCVD	Received. Payment initiation has been received by the receiving agent.	N
PART	PartiallyAccepted. A number of transactions have been accepted, whereas another number of transactions have not yet achieved ? accepted? status.	N
RJCT	Rejected. Payment initiation or individual transaction included in the payment initiation has been rejected.	N
PDNG	Pending. Payment initiation or individual transaction included in the payment initiation is pending. Further checks and status update will be performed.	N
ACWC	Accepted with Change. Payment initiation or individual transaction included in payment initiation has been accepted but a change was required to continue processing.	N
ACCR	Accepted Cancellation Request. Cancellation is accepted.	N

---

### PmtBatch Status Environment Aggregate <PmtBatchStatEnvr>

PmtBatch Status Environment Aggregate

Extends: [BaseEnvr](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseEnvr			
<a href="#">CreatedDt</a>	DateTime	Required	Created Date/Time. The date/time the object was created.
<a href="#">CreateReflident</a>	NC-36	Optional	An identifier used to uniquely identify the creation of this object to the system that created the object. This will usually be a link to reference information used in creating the object.
<a href="#">ClientCreateDt</a>	DateTime	Optional	The created date/time as reported by the client. This can vary from the object creation date/time due to time zone differences, communication delays, etc
<a href="#">ClientBusinessDt</a>	DateTime	Optional	The date/time that the client recorded this object for operational purposes. This date/time will often be used to manage the availability of information or funds.
	DateTime		

<a href="#">LastUpdateDt</a>		Optional	Last update Date/Time. The date/time the object was created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LastUpdateRqUID</a>	UUID	Optional	Last update RqUID. The RqUID from the message that resulted in th object being created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LoginName</a>	C-40	Optional	The login name (or Id) of the individual that authorized this object to be created. This is typically used when the object is created on behalf of its owner by someone who is not normally represented as a Party (i.e., an employee or agent).
<a href="#">PartyKeys</a>	Aggregate	Optional	Reference to the Party that this object is owned by or authorized by.
<a href="#">CardKeys</a>	Aggregate	Optional	This is dependent on Card proposal. Currently this is implemented as the CardLogicalData aggregate.
<a href="#">PassbkKeys</a>	Aggregate	Optional	Currently PassbkAcceptData.
<a href="#">NetworkTrnData</a>	Aggregate	Optional	Network Transaction Information. Identification and location of the terminal from which the message originates.
<a href="#">ServerTerminalSeqNum</a>	NC-36	Optional	Server Terminal Sequence Number. A terminal sequence number generated by the server to identify this object. This number is used in ATM and POS environments to uniquely identify transactions (with terminal name and date) for transaction management.
<a href="#">PointOfServiceData</a>	Aggregate	Optional	The Point of Service Data. This aggregate contains information about the environment in which this message originated.
<a href="#">ClientTerminalSeqNum</a>	NC-36	Optional	Client Terminal Sequence Number. A terminal sequence number generated by the client to identify this object. This number is used in ATM, POS, Branch, Call Center and Teller environments to uniquely identify transactions at the client (with terminal name and date). This number is often required when requesting supporting documentation related to a customer transaction.
end Elements from BaseEnvr			
begin Aggregate			
end Aggregate			

---

**PmtBatch Status Identifier <PmtBatchStatId>**

PmtBatch Status Identifier

Datatype: **Identifier**

---

**PmtBatch Status Information Aggregate <PmtBatchStatInfo>**

PmtBatch Status Information Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">pain.002.001.01</a>	External Aggregate	Required	ISO 20022 Payment Status Report Version 1.
<a href="#">pain.002.001.02</a>	External Aggregate	Required	ISO 20022 Payment Status Report Version 2.
<a href="#">pain.002.001.03</a>	External Aggregate	Required	ISO 20022 Payment Status Report Version 3.
end-xor			
end Aggregate			

---

**Payment Batch Request Message <PmtBatchStatInqRq>**

The Payment Batch Status Inquiry message can request status to be reported on at the Group level only or for each individual payment within the Group(s). Selection of either <PmtBatchStatusCode> or <PmtStatusCode> will determine the level of status information that would be contained in the response message.

See the matching response message [PmtBatchStatInqRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">DocCtrlIn</a>	Aggregate	Optional	Document Control Input
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
begin-xor		Optional Repeating	
<a href="#">PmtBatchStatSel</a>	Aggregate	Required	PmtBatch Status Selection Aggregate
<a href="#">RecSelect</a>	lfxPath	Required	Record Select
end-xor			
end Aggregate			

**Payment Batch Response Message <PmtBatchStatInqRs>**

Response to Batch Payment Status Inquiry message. It will return one or more payment batch status record (PmtBatchStatusRec) aggregates.

See the matching request message [PmtBatchStatInqRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">DocCtrlOut</a>	Aggregate	Optional	Document Control Output
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">PmtBatchStatRec</a>	Aggregate	Required Repeating	PmtBatch Status Record Aggregate
end-block			

end Aggregate
---------------

---

### **PmtBatch Status Keys Aggregate <PmtBatchStatKeys>**

PmtBatch Status Keys Aggregate

Extends: [BaseKeys](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseKeys			
end Elements from BaseKeys			
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
begin-xor		Required	
<a href="#">PmtBatchStatId</a>	Identifier	Required	PmtBatch Status Identifier
end-xor			
end Aggregate			

---

### **PmtBatch Status Record Aggregate <PmtBatchStatRec>**

PmtBatch Status Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">PmtBatchStatId</a>	Identifier	Required	PmtBatch Status Identifier
<a href="#">PmtBatchStatInfo</a>	Aggregate	Required	PmtBatch Status Information Aggregate
<a href="#">PmtBatchStatEnvr</a>	Aggregate	Optional	PmtBatch Status Environment Aggregate
<a href="#">PmtBatchStatStatus</a>	Aggregate	Required	PmtBatch Status Status Aggregate
end Aggregate			



---

**PmtBatch Status Reference Aggregate <PmtBatchStatRef>**

PmtBatch Status Reference Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">PmtBatchStatKeys</a>	Aggregate	Required	PmtBatch Status Keys Aggregate
<a href="#">PmtBatchStatRec</a>	Aggregate	Required	PmtBatch Status Record Aggregate
<a href="#">PmtBatchStatInfo</a>	Aggregate	Required	PmtBatch Status Information Aggregate
end-xor			
end Aggregate			

---

**PmtBatch Status Selection Aggregate <PmtBatchStatSel>**

PmtBatch Status Selection Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required Repeating	
<a href="#">PmtBatchStatKeys</a>	Aggregate	Required	PmtBatch Status Keys Aggregate
end-xor			
end Aggregate			

---

**PmtBatch Status Status Aggregate <PmtBatchStatStatus>**

## PmtBatch Status Status Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">PmtBatchStatStatusCode</a>	Open Enum	Required	PmtBatch Status Status Code  Valid values include: Deleted, Valid
<a href="#">StatusDesc</a>	C-255	Optional	Status Description
<a href="#">EffDt</a>	DateTime	Optional	Effective Date Time
<a href="#">ApprovalIdent</a>	NC-36	Optional	Approval Identifier
<a href="#">StatusModBy</a>	Open Enum	Optional	Status Modified By  Valid values include: BPP, BPPSR, BSP, BSPSR, CPP, CPPSR, CSP, CSPSR, Customer, FI, PSP
end Aggregate			

---

### PmtBatch Status Status Code <PmtBatchStatStatusCode>

PmtBatch Status Status Code

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
Valid		N
Deleted		N

---

### PmtBatch Status Status Record Aggregate <PmtBatchStatStatusRec>

PmtBatch Status Status Record Aggregate

Datatype: **Aggregate**

---

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">PmtBatchStatId</a>	Identifier	Required	PmtBatch Status Identifier
<a href="#">PmtBatchStatStatus</a>	Aggregate	Required	PmtBatch Status Status Aggregate
end Aggregate			

---

### Payment Batch Status Aggregate <PmtBatchStatus>

Payment Batch Status Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">PmtBatchStatusCode</a>	Open Enum	Required	Payment Batch Status Code  Valid values include: Deleted, Valid
<a href="#">StatusDesc</a>	C-255	Optional	Status Description
<a href="#">EffDt</a>	DateTime	Optional	Effective Date Time
<a href="#">ApprovalIdent</a>	NC-36	Optional	Approval Identifier
<a href="#">StatusModBy</a>	Open Enum	Optional	Status Modified By  Valid values include: BPP, BPPSR, BSP, BPSR, CPP, CPPSR, CSP, CSPSR, Customer, FI, PSP
end Aggregate			

---

### Payment Batch Status Code <PmtBatchStatusCode>

Payment Batch Status Code

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Valid		N
Deleted		N

---

## Payment Batch Status Record Aggregate <PmtBatchStatusRec>

Payment Batch Status Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">PmtBatchId</a>	Identifier	Required	Payment Batch Identifier
<a href="#">PmtBatchStatus</a>	Aggregate	Required	Payment Batch Status Aggregate
end Aggregate			

---

## Payment Request Message <PmtCanRq>

The Cancel Payment message allows a client to cancel apending Payment that was set up using the Payment Add message or generated from a Recurring Payment model.

See the matching response message [PmtCanRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">PmtKeys</a>	Aggregate	Required	Payment Keys Aggregate
end Aggregate			

---

## Payment Response Message <PmtCanRs>

Response to Payment Cancel Request

See the matching request message [PmtCanRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">PmtRec</a>	Aggregate	Required	Payment Record Aggregate
<a href="#">PmtStatusRec</a>	Aggregate	Required	Payment Status Record Aggregate
end-xor			
end-block			
end Aggregate			

---

## Payment Credit Detail <PmtCreditDetail>

This aggregate contains details about the credit side(s) of a payment.

Each Pmt Credit Detail occurrence may reference one and only one Remittance (via <RemitRef>). However, a single Payment could be linked to multiple Remittances, since the linkage occurs at the detail level not the Payment level.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-or		Required	
<a href="#">DebtorCurAmt</a>	Aggregate	Required	The credit amount, expressed in the

			currency of the debtor account.
<a href="#">CreditorCurAmt</a>	Aggregate	Required	The equivalent amount in the currency to be credited.
end-or			
<a href="#">UltimateDebtorData</a>	Aggregate	Optional	Party that is ultimately responsible for the payment, if different than the Debtor. May vary at the credit level, i.e. one debtor may be paying from their account on behalf of several parties; the ultimate debtor would be indicated for each credit.
<a href="#">CreditorData</a>	Aggregate	Required	Party that owns the account to be credited.
<a href="#">UltimateCreditorData</a>	Aggregate	Optional	Party that is ultimately receiving the payment; end beneficiary, if different than the Creditor.
<a href="#">ToAcctKeys</a>	Aggregate	Optional	Account that is receiving the payment, i.e. account to be credited.
<a href="#">RemitRef</a>	Aggregate	Optional	Provides a reference to or includes the remittance data associated with this credit side of the payment.
<a href="#">Category</a>	C-40	Optional	Payer-assigned category for this credit side of the payment.
<a href="#">ForExDealKeys</a>	Aggregate	Optional	Reference to a foreign exchange deal (contract) for this credit side of the payment
<a href="#">PmtRefIdent</a>	NC-36	Optional	Payment reference identifier. Identifier for this credit side of the payment. Generated by the Payer, typically by the Accounts Payable system.
end Aggregate			

---

### Payment Enclosed Request Message <PmtEnclAddRq>

Add Payment Enclosed . Used to add a new payment enclosed object to a service provider.

See the matching response message [PmtEnclAddRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier

<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">PmtEnclInfo</a>	Aggregate	Required	Payment Enclosed Information Aggregate
end Aggregate			

---

### Payment Enclosed Response Message <PmtEnclAddRs>

Add Payment Enclosed . Used to add a new payment enclosed object to a service provider.

See the matching request message [PmtEnclAddRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">PmtEnclRec</a>	Aggregate	Required	Payment Enclosed Record Aggregate
<a href="#">PmtEnclStatusRec</a>	Aggregate	Required	Payment Enclosed Status Record Aggregate
end-xor			
end-block			
end Aggregate			

---

### Payment Enclosed Request Message <PmtEnclAdviseRq>

See the matching response message [PmtEnclAdviseRs](#)

Datatype: **Aggregate**

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Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
begin-xor		Required	
<a href="#">PmtEnclRec</a>	Aggregate	Required	Payment Enclosed Record Aggregate
<a href="#">PmtEnclStatusRec</a>	Aggregate	Required	Payment Enclosed Status Record Aggregate
end-xor			
end Aggregate			

---

### Payment Enclosed Response Message <PmtEnclAdviseRs>

See the matching request message [PmtEnclAdviseRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">PmtEnclRec</a>	Aggregate	Required	Payment Enclosed Record Aggregate
<a href="#">PmtEnclStatusRec</a>	Aggregate	Required	Payment Enclosed Status Record Aggregate
end-xor			
end-block			
end Aggregate			

---

### Payment Enclosed Request Message <PmtEnclAudRq>



See the matching response message [PmtEnclAudRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
<a href="#">DtRange</a>	Aggregate	Optional	Date Range
<a href="#">Method</a>	Closed Enum	Optional Repeating	Method  Valid values are limited to: Add, Advise, AuthMod, Can, Del, Mod, StatusMod
<a href="#">PmtEnclKeys</a>	Aggregate	Optional Repeating	Payment Enclosed Keys Aggregate
end Aggregate			

---

**Payment Enclosed Response Message <PmtEnclAudRs>**

See the matching request message [PmtEnclAudRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">PmtEnclRsMsg</a>	Aggregate	Optional Repeating	Payment EnclosedResponse Message Record Aggregate
end-block			
end Aggregate			

---

## Payment Enclosed Request Message <PmtEnclCanRq>

See the matching response message [PmtEnclCanRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">PmtEnclKeys</a>	Aggregate	Required	Payment Enclosed Keys Aggregate
end Aggregate			

---

## Payment Enclosed Response Message <PmtEnclCanRs>

See the matching request message [PmtEnclCanRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">PmtEnclRec</a>	Aggregate	Required	Payment Enclosed Record Aggregate
<a href="#">PmtEnclStatusRec</a>	Aggregate	Required	Payment Enclosed Status Record Aggregate
end-xor			
end-block			

end Aggregate

## Payment Enclosed Environment Aggregate <PmtEnclEnvr>

Payment Enclosed Environment Aggregate

Extends: [BaseEnvr](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseEnvr			
<a href="#">CreatedDt</a>	DateTime	Required	Created Date/Time. The date/time the object was created.
<a href="#">CreateRefIdent</a>	NC-36	Optional	An identifier used to uniquely identify the creation of this object to the system that created the object. This will usually be a link to reference information used in creating the object.
<a href="#">ClientCreateDt</a>	DateTime	Optional	The created date/time as reported by the client. This can vary from the object creation date/time due to time zone differences, communication delays, etc
<a href="#">ClientBusinessDt</a>	DateTime	Optional	The date/time that the client recorded this object for operational purposes. This date/time will often be used to manage the availability of information or funds.
<a href="#">LastUpdateDt</a>	DateTime	Optional	Last update Date/Time. The date/time the object was created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LastUpdateRqUID</a>	UUID	Optional	Last update RqUID. The RqUID from the message that resulted in th object being created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LoginName</a>	C-40	Optional	The login name (or Id) of the individual that authorized this object to be created. This is typically used when the object is created on behalf of its owner by someone who is not normally represented as a Party (i.e., an employee or agent).
<a href="#">PartyKeys</a>	Aggregate	Optional	Reference to the Party that this object

			is owned by or authorized by.
<a href="#">CardKeys</a>	Aggregate	Optional	This is dependent on Card proposal. Currently this is implemented as the CardLogicalData aggregate.
<a href="#">PassbkKeys</a>	Aggregate	Optional	Currently PassbkAcceptData.
<a href="#">NetworkTrnData</a>	Aggregate	Optional	Network Transaction Information. Identification and location of the terminal from which the message originates.
<a href="#">ServerTerminalSeqNum</a>	NC-36	Optional	Server Terminal Sequence Number. A terminal sequence number generated by the server to identify this object. This number is used in ATM and POS environments to uniquely identify transactions (with terminal name and date) for transaction management.
<a href="#">PointOfServiceData</a>	Aggregate	Optional	The Point of Service Data. This aggregate contains information about the environment in which this message originated.
<a href="#">ClientTerminalSeqNum</a>	NC-36	Optional	Client Terminal Sequence Number. A terminal sequence number generated by the client to identify this object. This number is used in ATM, POS, Branch, Call Center and Teller environments to uniquely identify transactions at the client (with terminal name and date). This number is often required when requesting supporting documentation related to a customer transaction.
end Elements from BaseEnvr			
begin Aggregate			
end Aggregate			

---

**Payment Enclosed Identifier <PmtEnclId>**

Payment Enclosed Identifier

Datatype: **Identifier**

---

**Payment Enclosed Information Aggregate <PmtEnclInfo>**

## Payment Enclosed Information Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">PmtEnclType</a>	Open Enum	Required	The type of the Payment Enclosed transaction.  Defined Values:  UnverifiedCashDeposit, VerifiedCashDeposit, UnverifiedCheckDeposit, VerifiedCheckDeposit, EnvelopeDeposit, MultiDeposit
<a href="#">PmtEnclPayeeInfo</a>	Aggregate	Optional	Payment Enclosed Payee Information Aggregate.  This aggregate is required if the <PmtEnclType> is other than "EnvelopeDeposit".
<a href="#">CreditMediaItem</a>	Aggregate	Optional Repeating	Credit Media Item aggregate. This aggregate contains details pertaining to the individual items in the enclosed payment (e.g. check, cash).
<a href="#">CompositeCurAmt</a>	Aggregate	Required Repeating	The amounts of the Payment Enclosed transaction and any appropriate fees.
<a href="#">Category</a>	C-40	Optional	Payment Category. The payment category selected by the customer.
begin-xor		Optional	
<a href="#">PrcDt</a>	Date	Required	Payment Processing Date. The customer enters this date as the original requested processing date, not corrected for holidays and non-processing days. May be modified by the customer.
<a href="#">DueDt</a>	Date	Required	Payment Due Date. The customer enters this date to represent the date the payment is due to arrive at the payee. May be modified by the customer.
end-xor			
end Aggregate			

---

### Payment Enclosed Request Message <PmtEnclInqRq>

Inquire Payment Enclosed . Used to inquire on payment enclosed objects.

See the matching response message [PmtEnclInqRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">DocCtrlIn</a>	Aggregate	Optional	Document Control Input
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
begin-xor		Optional Repeating	
<a href="#">PmtEnclSel</a>	Aggregate	Required	Payment Enclosed Selection Aggregate
<a href="#">RecSelect</a>	lfxPath	Required	Record Select
end-xor			
end Aggregate			

### Payment Enclosed Response Message <PmtEnclInqRs>

Inquire Payment Enclosed . Used to inquire on payment enclosed objects.

See the matching request message [PmtEnclInqRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">DocCtrlOut</a>	Aggregate	Optional	Document Control Output
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">PmtEnclRec</a>	Aggregate	Required Repeating	Payment Enclosed Record Aggregate

end-block
end Aggregate

---

### Payment Enclosed Keys Aggregate <PmtEnclKeys>

Payment Enclosed Keys Aggregate

Extends: [BaseKeys](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseKeys			
end Elements from BaseKeys			
begin Aggregate			
<a href="#">SvclIdent</a>	Aggregate	Optional	Service Identifier
begin-xor		Required	
<a href="#">PmtEnclId</a>	Identifier	Required	Payment Enclosed Identifier
end-xor			
end Aggregate			

---

### Payment Enclosed Request Message <PmtEnclModRq>

See the matching response message [PmtEnclModRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">PmtEnclKeys</a>	Aggregate	Required	Payment Enclosed Keys Aggregate
begin-block		Required Repeating	
<a href="#">PmtEnclInfo</a>	Aggregate	Required	Payment Enclosed Information Aggregate

begin-xor		Optional Repeating	
<a href="#">DelElements</a>	lfxPath	Required	An lfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to delete. It is an error if one attempts to delete Required fields.
<a href="#">UpdElements</a>	lfxPath	Required	An lfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to update. The new value of the updated element is in the accompanying xxxInfo aggregate.
<a href="#">NewElements</a>	lfxPath	Required	An lfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to add. The new value of the new elements is in the accompanying xxxInfo aggregate.
end-xor			
end-block			
end Aggregate			

## Payment Enclosed Response Message <PmtEnclModRs>

See the matching request message [PmtEnclModRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">PmtEnclRec</a>	Aggregate	Required	Payment Enclosed Record Aggregate
<a href="#">PmtEnclStatusRec</a>	Aggregate	Required	Payment Enclosed Status Record Aggregate
end-xor			
end-block			



end Aggregate
---------------

---

### Payment Enclosed Payee Information <PmtEnclPayee>

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">Name</a>	C-40	Required	Payee Name.
<a href="#">PostAddr</a>	Aggregate	Required	Payee Address Aggregate.
end Aggregate			

---

### Payment Enclosed Payee Information <PmtEnclPayeeInfo>

The <PmtEnclPayeeInfo> aggregate is used in <PmtEnclInfo> aggregate to identify the payee (when the <PmtEnclType> is other than "EnvelopeDeposit").

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">StdPayeeId</a>	Identifier	Required	Customer's Payee Identifier. The Standard Payee as known to the CPP.
<a href="#">PmtEnclPayee</a>	Aggregate	Required	Payee's Name and Address Aggregate.
end-xor			
<a href="#">IndustIdent</a>	Aggregate	Optional	Industry Identifier. It provides standard codes by which industries are classified.
end Aggregate			

---

### Payment Enclosed Record Aggregate <PmtEnclRec>

## Payment Enclosed Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvclIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">PmtEnclId</a>	Identifier	Required	Payment Enclosed Identifier
<a href="#">PmtEnclInfo</a>	Aggregate	Required	Payment Enclosed Information Aggregate
<a href="#">PmtEnclEnvr</a>	Aggregate	Optional	Payment Enclosed Environment Aggregate
<a href="#">PmtEnclStatus</a>	Aggregate	Required	Payment Enclosed Status Aggregate
end Aggregate			

---

## Payment Enclosed Reference Aggregate <PmtEnclRef>

Payment Enclosed Reference Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">PmtEnclKeys</a>	Aggregate	Required	Payment Enclosed Keys Aggregate
<a href="#">PmtEnclRec</a>	Aggregate	Required	Payment Enclosed Record Aggregate
<a href="#">PmtEnclInfo</a>	Aggregate	Required	Payment Enclosed Information Aggregate
end-xor			
end Aggregate			

---

## Payment Enclosed Request Message <PmtEnclRevRq>

Reverse a Payment Enclosed Add message. Used to reverse payment enclosed objects.

See the matching response message [PmtEnclRevRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RevReasonCode</a>	Aggregate	Required	Reversal Reason Code
<a href="#">Desc</a>	C-80	Optional	Description
<a href="#">PmtEnclRqMsg</a>	Aggregate	Required	Payment Enclosed Request Message Record Aggregate
end Aggregate			

---

### Payment Enclosed Response Message <PmtEnclRevRs>

Reverse a Payment Enclosed Add message. Used to reverse payment enclosed objects.

See the matching request message [PmtEnclRevRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
end Aggregate			

---

### Payment Enclosed Request Message Record Aggregate <PmtEnclRqMsg>

Payment Enclosed Request Message Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">PmtEnclAddRq</a>	Aggregate	Required	Payment Enclosed Add Request
<a href="#">PmtEnclModRq</a>	Aggregate	Required	Payment Enclosed Modify Request
<a href="#">PmtEnclCanRq</a>	Aggregate	Required	Payment Enclosed Cancel Request
<a href="#">PmtEnclInqRq</a>	Aggregate	Required	Payment Enclosed Inquiry Response
<a href="#">PmtEnclAdviseRq</a>	Aggregate	Required	Payment Enclosed Advise Response
<a href="#">PmtEnclAudRq</a>	Aggregate	Required	Payment Enclosed Audit Request
<a href="#">PmtEnclStatusModRq</a>	Aggregate	Required	Payment Enclosed Status Modify Request
<a href="#">RevRqUID</a>	UUID	Optional	Reversal Request Unique ID
end-xor			
end Aggregate			

---

**Payment EnclosedResponse Message Record Aggregate**  
**<PmtEnclIRsMsg>**

Payment EnclosedResponse Message Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">MsgRecDt</a>	Timestamp	Optional	Audit Record Creation Date
begin-xor		Required	
<a href="#">PmtEnclAddRs</a>	Aggregate	Required	Payment Enclosed Add Response
<a href="#">PmtEnclModRs</a>	Aggregate	Required	Payment Enclosed Modify Response
<a href="#">PmtEnclCanRs</a>	Aggregate	Required	Payment Enclosed Cancel Response
<a href="#">PmtEnclRevRs</a>	Aggregate	Required	Payment Enclosed Reversal Response
<a href="#">PmtEnclInqRs</a>	Aggregate	Required	Payment Enclosed Inquiry Response
<a href="#">PmtEnclAdviseRs</a>	Aggregate	Required	Payment Enclosure Advise Response
<a href="#">PmtEnclStatusModRs</a>	Aggregate	Required	Payment Enclosed Status Modify Response

end-xor
end Aggregate

---

### Payment Enclosed Selection Aggregate <PmtEnclSel>

Payment Enclosed Selection Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required Repeating	
<a href="#">PmtEnclKeys</a>	Aggregate	Required	Payment Enclosed Keys Aggregate
end-xor			
end Aggregate			

---

### Payment Enclosed Status Aggregate <PmtEnclStatus>

Payment Enclosed Status Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">PmtEnclStatusCode</a>	Open Enum	Required	Payment Enclosed Status Code  Valid values include: AcceptedToVerify, Deleted, Failed, Held, Rejected, Valid, Verified
<a href="#">StatusDesc</a>	C-255	Optional	Status Description
<a href="#">EffDt</a>	DateTime	Optional	Effective Date Time
<a href="#">ApprovalIdent</a>	NC-36	Optional	Approval Identifier
<a href="#">StatusModBy</a>	Open Enum	Optional	Status Modified By  Valid values include: BPP, BPPSR, BSP,

			BSPSR, CPP, CPPSR, CSP, CSPSR, Customer, FI, PSP
<a href="#">StatusReason</a>	C-80	Optional	Status Reason
end Aggregate			

---

### Payment Enclosed Status Code <PmtEnclStatusCode>

This identifies the payment enclosed processing status.

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
Failed	The FI or SP (e.g., banking provider) attempted to process the Payment Enclosed and failed. No additional information is available. May include data integrity problems.	N
AcceptedToVerify	The FI or SP (e.g., banking provider) has successfully accepted the Payment Enclosed, but the payment is subjected to verification.	N
Verified	The FI or SP (e.g., banking provider) has successfully verified the Payment Enclosed.	N
Rejected	The payment enclosed has been rejected	N
Valid		N
Deleted		N
Held	The payment enclosed has been held	N

---

### Payment Enclosed Request Message <PmtEnclStatusModRq>

Defines the Payment Enclosed Status Modification Request message.

See the matching response message [PmtEnclStatusModRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
	UUID		

<a href="#">RqUID</a>		Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">PmtEnclKeys</a>	Aggregate	Required	Payment Enclosed Keys Aggregate
<a href="#">PmtEnclStatus</a>	Aggregate	Required	Payment Enclosed Status Aggregate
end Aggregate			

---

### Payment Enclosed Response Message <PmtEnclStatusModRs>

Defines the Payment Enclosed Status Modification Response message.

See the matching request message [PmtEnclStatusModRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">PmtEnclStatusRec</a>	Aggregate	Required	Payment Enclosed Status Record Aggregate
end-block			
end Aggregate			

---

### Payment Enclosed Status Record Aggregate <PmtEnclStatusRec>

Payment Enclosed Status Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
end Aggregate			

<a href="#">PmtEnclId</a>	Identifier	Required	Payment Enclosed Identifier
<a href="#">PmtEnclStatus</a>	Aggregate	Required	Payment Enclosed Status Aggregate
end Aggregate			

---

### Payment Enclosure Type <PmtEnclType>

The type of the Payment Enclosed transaction

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
UnverifiedCashDeposit	A cash deposit, where further validation is required to ensure the deposited cash is legal tender for the payment.	N
VerifiedCashDeposit	A cash deposit, where the notes have been verified and validated (i.e. this can be credited to the payee's account immediately).	N
UnverifiedCheckDeposit	A check deposit, where some further validation is required.	N
VerifiedCheckDeposit	A check deposit, where the check has been validated.	N
EnvelopeDeposit	The customer inserted their deposit amount in an envelope to be credited to the account.	N
MultiDeposit	The customer deposited combination of currency notes and checks to be credited to the account.	N

---

### Payment Environment Aggregate <PmtEnvr>

Payment Environment Aggregate

Extends: [BaseEnvr](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseEnvr			
<a href="#">CreatedDt</a>	DateTime	Required	Created Date/Time. The date/time the object was created.



<a href="#">CreateRefIdent</a>	NC-36	Optional	An identifier used to uniquely identify the creation of this object to the system that created the object. This will usually be a link to reference information used in creating the object.
<a href="#">ClientCreateDt</a>	DateTime	Optional	The created date/time as reported by the client. This can vary from the object creation date/time due to time zone differences, communication delays, etc
<a href="#">ClientBusinessDt</a>	DateTime	Optional	The date/time that the client recorded this object for operational purposes. This date/time will often be used to manage the availability of information or funds.
<a href="#">LastUpdateDt</a>	DateTime	Optional	Last update Date/Time. The date/time the object was created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LastUpdateRqUID</a>	UUID	Optional	Last update RqUID. The RqUID from the message that resulted in the object being created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LoginName</a>	C-40	Optional	The login name (or Id) of the individual that authorized this object to be created. This is typically used when the object is created on behalf of its owner by someone who is not normally represented as a Party (i.e., an employee or agent).
<a href="#">PartyKeys</a>	Aggregate	Optional	Reference to the Party that this object is owned by or authorized by.
<a href="#">CardKeys</a>	Aggregate	Optional	This is dependent on Card proposal. Currently this is implemented as the CardLogicalData aggregate.
<a href="#">PassbkKeys</a>	Aggregate	Optional	Currently PassbkAcceptData.
<a href="#">NetworkTrnData</a>	Aggregate	Optional	Network Transaction Information. Identification and location of the terminal from which the message originates.
<a href="#">ServerTerminalSeqNum</a>	NC-36	Optional	Server Terminal Sequence Number. A terminal sequence number generated by the server to identify this object. This number is used in ATM and POS environments to uniquely identify transactions (with terminal name and date) for transaction management.
<a href="#">PointOfServiceData</a>	Aggregate	Optional	The Point of Service Data. This aggregate contains information about the environment in which this

			message originated.
<a href="#">ClientTerminalSeqNum</a>	NC-36	Optional	Client Terminal Sequence Number. A terminal sequence number generated by the client to identify this object. This number is used in ATM, POS, Branch, Call Center and Teller environments to uniquely identify transactions at the client (with terminal name and date). This number is often required when requesting supporting documentation related to a customer transaction.
end Elements from BaseEnvr			
begin Aggregate			
end Aggregate			

---

### Payment Format <PmtFormat>

Payment format for the specified settlement method.

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
CIE	Customer Initiated Entry	N
MTE	Machine Transfer Entry	N
PBR	Consumer Cross Border Payment	N
POP	Point of Purchase Entry	N
RCK	Re-Presented Check Entry	N
CBR	Corporate Cross Border Payment	N
CCD	Cash Concentration or Disbursement, stand alone	N
CCDPlus	Cash Concentration or Disbursement, with addenda record	N
CTX	Corporate Trade Exchange	N
PPD	Prearranged Payment or Deposit, stand alone	N
PPDPlus	Prearranged Payment or Deposit, with addenda record	N
WEB	Internet Initiated Entry	N
TEL	Telephone Initiated Entry	N

---

## Payment Identifier <PmtId>

Payment Identifier

Datatype: **Identifier**

---

## Payment Information Aggregate <PmtInfo>

Payment Information Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">CurAmt</a>	Aggregate	Optional	Total funding from debit account.  The details of payment amounts are in the PaymentCreditDetail(s). If this is not present, the amount to be debited from the funding account is assumed to be the sum of PaymentCreditDetail amounts
<a href="#">CPPData</a>	Aggregate	Optional	Consumer Payment Provider. This is equivalent to the InitiatingParty in the ISO20022 model.
<a href="#">DebtorData</a>	Aggregate	Required	Party that owns the account to be debited.
<a href="#">PmtInstruction</a>	Aggregate	Required	Provides information on the mechanics of processing the payment.
begin-xor		Required	
<a href="#">PrcDt</a>	Date	Required	Payment Processing Date. The customer enters this date as the original requested processing date, not corrected for holidays and non-processing days. May be modified by the customer.
<a href="#">DueDt</a>	Date	Required	Payment Due Date. The customer enters this date to represent the date the payment is due to arrive at the payee/creditor. May be modified by the customer.
end-xor			
<a href="#">ExpediteInd</a>	Boolean	Optional	If set to True, the payment must be executed immediately, and not at end of day. Subject to support at the server.
<a href="#">RecurPmtKeys</a>	Aggregate	Optional	This is a reference to a RecurPmt model object if this instance was created from a recurring model.

<a href="#">PmtCreditDetail</a>	Aggregate	Required Repeating	Information related to the credit side of the payment. At least one occurrence is required. Multiple occurrences can be supplied for cases where a single payment (debit) has multiple associated credits,
end Aggregate			

## Payment Request Message <PmtInqRq>

The Payment Inquiry message allows a client to get a list of the customer's pending, completed, or failed payments on the CPP's server. The client may select on a number of criteria. Clients that keep local copies of a customer's payments may use this message to 'refresh' their payment list. This message must not return a customer's recurring payment models but must return any pending, completed, or failed payments that were generated from recurring payment models.

The <FIDebitTrcNum> and <FICreditTrcNum> elements exist to support the case where the CPP submits a payment request to the FI (or CSP) that actually sends the payment messages. For example, a CPP may send a file of ACH-style messages that the FI forwards as actual ACH messages. The FI/CSP may edit the file; e.g., process their in-house messages and forward the rest. As part of this process the FI/CSP may assign reference numbers that correlate the messages to their system of record. There are both credit and debit fields to handle cases like "Us on Us" where two messages are spawned by the same payment request. Note that the debit and credit trace numbers are received offline but are added to support message histories. Also note that in this scenario all 4 message IDs are used: <SPRefId> is the Pay engine (CPP) reference to the payment and <CSPRefId> is the FI/CSP reference to the payment. One or both were probably returned to the client as confirmation number (s) when the payment was added or modified. <FIDebitTrcNum> and <FICreditTrcNum> are references to the messages that actually move funds to and from accounts.

See the matching response message [PmtInqRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">DocCtrlIn</a>	Aggregate	Optional	Document Control Input

<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
begin-xor		Optional Repeating	
<a href="#">PmtSel</a>	Aggregate	Required	Payment Selection Aggregate
<a href="#">RecSelect</a>	IfxPath	Required	Record Select
end-xor			
end Aggregate			

---

### Payment Response Message <PmtInqRs>

The server responds to a <PmtInqRq> message by returning a <PmtInqRs> message to the client.

See the matching request message [PmtInqRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">DocCtrlOut</a>	Aggregate	Optional	Document Control Output
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">PmtRec</a>	Aggregate	Required Repeating	Payment Record Aggregate
end-block			
end Aggregate			

---

### Payment and Settlement Instruction <PmtInstruction>

The Payment Instruction aggregate communicates instructions for executing the transfer of funds.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">PmtMethod</a>	Open Enum	Optional	Payment Method  Valid values include: ACH, BookEntry, CHAPS, Check, CHIPS, Concentrator, CreditNetwork, DebitNetwork, Draft, Electronic, ePay, FedNet, OutsourcedCheck, RPS, SWIFT
begin-xor		Required	
<a href="#">FromAcctRef</a>	Aggregate	Required	From Account Reference
<a href="#">SettlementIdent</a>	C-20	Required	Settlement Identification
end-xor			
<a href="#">Memo</a>	C-255	Optional	Memo
<a href="#">CountryCode</a>	Aggregate	Optional	Country. Country of the payment system in which the payment is processed.
<a href="#">PmtFormat</a>	Open Enum	Optional	Payment format. Payment format for the specified payment method above. For example, in ACH electronic transfer, the format can be CTX, CCD, CCDPlus, PPD, etc.
<a href="#">RefData</a>	Aggregate	Optional Repeating	Reference information associated with payment information.
<a href="#">IntermediaryAcct</a>	Aggregate	Optional Repeating	Intermediary account. Used to identify accounts for intermediary banks that route the payment.
<a href="#">FeeChargeAlloc</a>	Aggregate	Optional	Bank Fee Charge Allocation. Used to communicate the fee charges on the payment by the CPP. This specifies who and how the fee is being distributed between the Payer and the Payee.
end Aggregate			

---

**Payment type <PmtInstType>**

Specifies the type of payment instruments that the biller can accept for electronic payment.

Datatype: **Closed Enum**

**Enumerated Values**

---

Value	Description	Is default
CheckAcct	Draft on a demand deposit account	N
CreditCard	Payment by authorization/settlement using Credit Card networks	N
ElectronicCash	Protocol for payment with electronic cash.	N

---

### Payment Keys Aggregate <PmtKeys>

Payment Keys Aggregate

Extends: [BaseKeys](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseKeys			
end Elements from BaseKeys			
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
begin-xor		Required	
<a href="#">PmtId</a>	Identifier	Required	Payment Identifier
end-xor			
end Aggregate			

---

### Payment Legal Reporting <PmtLegalRpt>

For cross border payments in some foreign countries, it is sometimes mandatory to provide legal reporting information to the foreign central bank. This aggregate contains the information to satisfy the legal reporting requirement for payments to foreign payees. It is the responsibility of the reporting party (payer or payee) to pass the payment legal reporting information to CPP for CPP to forward to Central Bank. This information may be passed from the payer to CPP. CPP may then pass it to the country's central bank. CPPs should not modify the information in this aggregate.

Following are some countries in which this aggregate is used: Austria, Belgium, Germany, Denmark, Finland, Japan, Netherlands, Norway, and Sweden.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">OrgPartyInfo</a>	Aggregate	Required	Organization variant of PartyInfo
<a href="#">OrgIdent</a>	Aggregate	Optional	Organization Identification
<a href="#">PayeeCountry</a>	NC-3	Required	ISO code of the residual country of the payee.
<a href="#">CurAmt</a>	Aggregate	Optional	Payment Currency Amount. Total amount being paid to Payee.
<a href="#">PrcDt</a>	Date	Optional	Payment Processing Date. The customer enters this date as the original requested processing date.
<a href="#">PmtLegalRptData</a>	Aggregate	Required Repeating	Detail information for legal reporting.
end Aggregate			

---

**Payment Legal Reporting Data <PmtLegalRptData>**

Detail information for legal reporting. Contains detail information regarding the goods and services of the supplying country to be reported to central bank on a payment to a foreign payee.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">LegalRptCode</a>	C-36	Required	Country specific code given by the central bank. Example: T015L-LVAWU
<a href="#">SupplRptCode</a>	C-36	Optional	Supplemental country dependent code. Could be more detail or could be another code.
<a href="#">Desc</a>	C-80	Optional	Description for additional information to the legal reporting code.
<a href="#">Memo</a>	C-255	Optional	Memo for Legal Reporting. From Customer to Central Bank.
<a href="#">SupplyingCountry</a>	Aggregate	Optional	ISO code of the country from which goods or services come.
<a href="#">CurAmt</a>	Aggregate	Required	Currency Amount. Amount Paid to supplying country on invoice. The Payer provides this amount to the CPP. CPP will



			pass this to central bank. CPP do nothing with this amount.
<a href="#">ImportDt</a>	Date	Optional	Date the goods or services are imported.
end Aggregate			

---

### Payment Method <PmtMethod>

Intended to provide to the customer general method of payment.

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
RPS	Payment using MasterCard™s RPS service.	N
ePay	Payment using VISA™s ePay service.	N
Check	Paid by check or other paper instrument	N
Electronic	Payment by a means of electronic funds transfer	N
ACH	The biller accepts electronic remittance using Automated Clearing House funds transfers.	N
Concentrator	The biller is asking that the CPP contact their Bill Payment Provider (biller concentrator bank) for more information	N
FedNet	Payment to be made by Federal Reserve Network	N
SWIFT	Payment to be made by Society Worldwide International Funds Transfer	N
CHIPS	Payment to be made by Clearing House Interbank Payment System	N
CHAPS	Payment to be made by Clearing House Automated Payment System	N
BookEntry	Payment to be made by book transfer	N
Draft	Payment to be made by cashier check	N
OutsourcedCheck	Payment by check issued by CPP on behalf of the Customer	N
CreditNetwork	Payment by credit card processing network; specific network is identified by brand of card.	N
DebitNetwork	Payment by debit card processing network; specific network is identified by brand of card.	N

---

### Payment Model <PmtModel>

Within the Pay Service profile, indicates whether the client must enter the date that the server should process the payment <PrcDt> or the date that the payment is due <PmtDueDt> within the Payment Record Aggregate <PmtInfo>.

Datatype: **Closed Enum**

## Enumerated Values

Value	Description	Is default
DueDt	The client must enter the date that the payment is due.	N
PrcDt	The client must enter the date that the payment should be processed by the server.	N

---

### Payment Request Message <PmtModRq>

Payment Modify Request

See the matching response message [PmtModRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">PmtKeys</a>	Aggregate	Required	Payment Keys Aggregate
begin-block		Required Repeating	
<a href="#">PmtInfo</a>	Aggregate	Required	Payment Information Aggregate
begin-xor		Optional Repeating	
<a href="#">DelElements</a>	IfxPath	Required	An IfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to delete. It is an error if one attempts to delete Required fields.
<a href="#">UpdElements</a>	IfxPath	Required	An IfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to update. The new value of the updated element is in the accompanying xxxInfo aggregate.
<a href="#">NewElements</a>	IfxPath	Required	An IfxPath (relative to a base of this IFX

			object's Info aggregate) which indicates which element to add. The new value of the new elements is in the accompanying xxxInfo aggregate.
end-xor			
end-block			
end Aggregate			

---

## Payment Response Message <PmtModRs>

See the matching request message [PmtModRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">PmtRec</a>	Aggregate	Required	Payment Record Aggregate
<a href="#">PmtStatusRec</a>	Aggregate	Required	Payment Status Record Aggregate
end-xor			
end-block			
end Aggregate			

---

## Payment Options <PmtOptions>

The <PmtOptions> aggregate is used to communicate the types of payment that the biller is capable of accepting via the Pay provider. This is used to restrict the methods by which the customer may pay for bills from the biller. The Service Provider indicates which payment Instruments are supported via <BillerPayData> in BillerInfo. The Biller may use the < PmtOptions > in <BillInfo> to provide a subset of these types of payments

the Biller accepts for a particular bill.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">PmtInstType</a>	Closed Enum	Required	Payment type. Specifies the type of payment instruments that the biller is capable of accepting for electronic payment.  Valid values: CheckAcct, CreditCard, ElectronicCash
<a href="#">Brand</a>	Open Enum	Optional	Accepted brand for a given payment type. If not specified, the client assumes that all brands of the given <PmtInstType> are acceptable.  Defined values: AmEx, CarteBlanche, DinersClub, Discover, Europay, JCB, MasterCard.
end Aggregate			

---

### Payment Record Aggregate <PmtRec>

Payment Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvclIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">PmtId</a>	Identifier	Required	Payment Identifier
<a href="#">PmtInfo</a>	Aggregate	Required	Payment Information Aggregate
<a href="#">PmtEnvr</a>	Aggregate	Optional	Payment Environment Aggregate
<a href="#">PmtStatus</a>	Aggregate	Required	Payment Status Aggregate
end Aggregate			

---

## Payment Reference Aggregate <PmtRef>

Payment Reference Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">PmtKeys</a>	Aggregate	Required	Payment Keys Aggregate
<a href="#">PmtRec</a>	Aggregate	Required	Payment Record Aggregate
<a href="#">PmtInfo</a>	Aggregate	Required	Payment Information Aggregate
end-xor			
end Aggregate			

---

## Payment reference identifier <PmtRefIdent>

Payment reference identifier for the payment generated by the Payer, generally in the Accounts Payable system.

Datatype: **NC-36**

---

## Payment Remittance Acknowledgement <PmtRemitAck>

Payment Remittance (Credit) Acknowledgement . Status record for the "credit side" of the payment transaction.

Contains information about the credit side of the payment transaction status. Includes information such as the total transaction fee charged to the payer, Checksum control total of successful or failed credit transactions, and individual credit transaction status.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
end Aggregate			

---

## Payment Remittance Checksum Control Record <PmtRemitChksum>

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">AckType</a>	Open Enum	Required	Acknowledgement Type Valid values include: Accepted, Pending, Rejected
<a href="#">Count</a>	Long	Required	Transaction Count. Indicates the number of transactions associated with the acknowledgement type.
<a href="#">TotalCurAmt</a>	Aggregate	Required	Currency Value Sum. References the accumulated amount associated with the acknowledgement type.
<a href="#">Memo</a>	C-255	Optional	Memo. Text associated with the acknowledgement type.
<a href="#">Contact</a>	Aggregate	Optional	CPP Contact Information. Information on how the customer can contact the CPP regarding the transaction set associated with the acknowledgement type.
end Aggregate			

---

## Payment Remittance Detail <PmtRemitDetail>

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">PmtRemitRefIdent</a>	NC-36	Required	Payment Remittance (Credit) Reference Transaction Identifier. Assigned by the client application.
<a href="#">CurAmt</a>	Aggregate	Required	Currency Amount. References the amount of the Payment Remit (credit) for the acknowledgement type.
<a href="#">PmtRemitStat</a>	Aggregate	Optional	Payment Remittance Status.

end Aggregate

---

### Payment Remittance Reference Identifier <PmtRemitRefIdent>

Payment Remittance (Credit) Reference Transaction identifier

Datatype: **NC-36**

---

### Payment Remittance Status <PmtRemitStat>

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">PmtRemitStatCode</a>	Closed Enum	Required	Payment Remittance Status Code. Identifies the Payment Remittance (Credit) status of a payment.  Valid Values: Accepted, Rejected, Pending
<a href="#">StatusDesc</a>	C-255	Optional	Status Description. Explanatory text associated with the status.
<a href="#">EffDt</a>	DateTime	Required	Processing Status Date. Date associated with the status change.
<a href="#">StatusModBy</a>	Open Enum	Optional	Status Modified By. Indicates who modified the Payment Remittance Status Code.  Defined values: Customer, CSP, CSPSR, BSP, BSPSR, CPP, CPPSR, BPP, and BPPSR.
<a href="#">Memo</a>	C-255	Optional	Memo. Text associated with the Payment Remittance Status.
end Aggregate			

---

### Payment Remittance Status Code <PmtRemitStatCode>

Identifies the Payment Remittance (Credit) status of a payment.

Datatype: **Closed Enum**

### Enumerated Values

Value	Description	Is default
Accepted	Accepted	N
Rejected	Rejected	N
Valid		N
Deleted		N
Pending	Pending	N

---

### Payment Request Message <PmtRevRq>

See the matching response message [PmtRevRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RevReasonCode</a>	Aggregate	Required	Reversal Reason Code
<a href="#">Desc</a>	C-80	Optional	Description
<a href="#">PmtRqMsg</a>	Aggregate	Required	Payment Request Message Record Aggregate
end Aggregate			

---

### Payment Response Message <PmtRevRs>

See the matching request message [PmtRevRq](#)



Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
end Aggregate			

---

**Payment Request Message Record Aggregate <PmtRqMsg>**

Payment Request Message Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">PmtAddRq</a>	Aggregate	Required	Payment Add Request
<a href="#">PmtModRq</a>	Aggregate	Required	Payment Modify Request
<a href="#">PmtCanRq</a>	Aggregate	Required	Payment Cancel Request
<a href="#">PmtInqRq</a>	Aggregate	Required	Payment Inquiry Request
<a href="#">PmtAudRq</a>	Aggregate	Required	Payment Audit Request
<a href="#">PmtSyncRq</a>	Aggregate	Required	Payment Synchronization Request
<a href="#">RevRqUID</a>	UUID	Required	Reversal Request Unique ID
end-xor			
end Aggregate			

---

**PaymentResponse Message Record Aggregate <PmtRsMsg>**

PaymentResponse Message Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">MsgRecDt</a>	Timestamp	Optional	Audit Record Creation Date
begin-xor		Required	
<a href="#">PmtAddRs</a>	Aggregate	Required	Payment Add Response
<a href="#">PmtModRs</a>	Aggregate	Required	Payment Modification Response
<a href="#">PmtCanRs</a>	Aggregate	Required	Payment Cancel Response
<a href="#">PmtRevRs</a>	Aggregate	Required	Payment Reversal Response
<a href="#">PmtInqRs</a>	Aggregate	Required	Payment Inquiry Response
end-xor			
end Aggregate			

---

**Payment Selection Aggregate <PmtSel>**

Payment Selection Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required Repeating	
<a href="#">PmtKeys</a>	Aggregate	Required	Payment Keys Aggregate
end-xor			
end Aggregate			

---

**Payment Status Aggregate <PmtStatus>**

Payment Status Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
-----	------	-------	---------------------------

begin Aggregate			
<a href="#">PmtStatusCode</a>	Open Enum	Required	Payment Status Code  Valid values include: Deleted, Valid
<a href="#">StatusDesc</a>	C-255	Optional	Status Description
<a href="#">EffDt</a>	DateTime	Optional	Effective Date Time
<a href="#">ApprovalIdent</a>	NC-36	Optional	Approval Identifier
<a href="#">StatusModBy</a>	Open Enum	Optional	Status Modified By  Valid values include: BPP, BPPSR, BSP, BPSR, CPP, CPPSR, CSP, CSPSR, Customer, FI, PSP
end Aggregate			

---

### Payment Status Code <PmtStatusCode>

Payment Status Code

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
Valid		N
Deleted		N

---

### Payment Status Record Aggregate <PmtStatusRec>

Payment Status Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">PmtId</a>	Identifier	Required	Payment Identifier

<a href="#">PmtStatus</a>	Aggregate	Required	Payment Status Aggregate
end Aggregate			

---

### Payment Summary Amount <PmtSummAmt>

Used to designate the identifier for the amount being paid, or to specify the allocation of the total amount being paid or a portion of the total amount.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">BillSummAmtIdent</a>	NC-36	Required	Bill Summary Amount Identifier. Biller's identifier for this currency amount, which is obtained in the <BillInfo> for a presented bill. The consumer can return this in the payment messages to identify to the biller the type of amount being paid or allocated by the consumer.
<a href="#">CurAmt</a>	Aggregate	Required	Currency Amount. Used to specify the amount being associated with the identifier specified by <BillSummAmtId>. This may be the same as the total amount being paid or a portion of the total amount (such as a supplemental payment amount or sub-amount allocation).
<a href="#">EquivCurAmt</a>	Aggregate	Optional Repeating	The equivalent value of <CurAmt> and/or exchange rate, to allow the amount to be expressed in an alternate currency. May repeat to allow for multiple alternate currencies.
end Aggregate			

---

### Payment Request Message <PmtSyncRq>

A client uses the Payment Sync message to retrieve a list of changes that have occurred to a customer's payments. This message may be used to enable a client that keeps local copies of a customer's payment messages to synchronize its local database with the Pay provider. The results of this message tell a client what the customer has done using other clients since they last used this one. It may also inform a client about changes the Pay

provider made (i.e., generated another payment instance for a recurring payment model, completed a payment or rejected a payment).

Some examples of changes the Pay provider would communicate to a customer include:

- New pending payment generated from a Recurring Payment Model - returned with a <PmtAddRs>;
- Successful payment processing - returned with <PmtModRs> with new <PmtStatus> indicating success;
- Unsuccessful payment processing - returned with <PmtModRs> with new <PmtStatus> indicating status and reason for failure, if available;
- Payment assigned a check number - returned with <PmtModRs> with new <PmtStatus> including <ChkNum>; and
- Payment check cleared - returned with <PmtModRs> with new <PmtStatus> indicating status.

See the matching response message [PmtSyncRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
<a href="#">PmtKeys</a>	Aggregate	Optional Repeating	Payment Keys Aggregate
end Aggregate			

---

### Payment Response Message <PmtSyncRs>

Response to a Payment Synchronization Request

See the matching request message [PmtSyncRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status

<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">PmtRsMsg</a>	Aggregate	Optional Repeating	PaymentResponse Message Record Aggregate
end-block			
end Aggregate			

### Payment Transaction Status Code <PmtTrnStatusCode>

This identifies the payment processing status. This would be equivalent to <TxSts> in <pain.002.001.01>

Datatype: **Closed Enum**

### Enumerated Values

Value	Description	Is default
ACTC	AcceptedTechnicalValidation Authentication and syntactical and semantic validation are successful.	N
ACCP	AcceptedCustomerProfile. Preceding check of technical validation was successful. Customer profile check was also successful. This includes the assessment of the static risks.	N
ACSP	AcceptedSettlementInProgress. All preceding checks such as technical validation and customer profile were successful. Dynamic risk assessment is now also successful and therefore the payment initiation has been accepted for execution.	N
ACSC	AcceptedSettlementCompleted. Settlement on the debtor's account has been completed. Usage: this can be used by the first agent to report to the debtor that the transaction has been completed. <i>Warning:</i> this status is provided for transaction status reasons, not for financial information. It can only be used after bilateral agreement between debtor and first agent – e.g. in cases where debit advices are not sent, but only end-of-day statements.	N
RJCT	Rejected. Payment initiation or individual transaction included in the payment initiation has been rejected.	N
Valid		N
Deleted		N
PDNG	Pending. Payment initiation or individual transaction included in the payment initiation is pending. Further checks and status update will be performed.	N

---

### Point of Service Data <PointOfServiceData>

The Point of Service Data aggregate provides information about the environment, capabilities and policies of the transaction acquirer. An account owner or intermediary can use the information in this aggregate to determine the type of transaction the customer is trying to perform and the environment it is being performed under. It also contains conditions that the transaction acquirer detected concerning the customer's use of its facilities.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">Environment</a>	Open Enum	Required	The environment that this customer interaction occurred under.  Valid values: Unknown, Mail, Telephone, ECommerce, MCommerce, Recurring, StoredData, POS, CAT, ATM, Deferred, Installment
<a href="#">POSCapabilities</a>	Aggregate	Optional	Transaction acceptor point of service capabilities.
<a href="#">POSSecurity</a>	Aggregate	Optional	Transaction acceptor point of service security features.
<a href="#">POSAgent</a>	Aggregate	Optional	Transaction acceptor agent (clerk) information.
<a href="#">IdentCharacterData</a>	Aggregate	Optional	Customer identification device characteristics.
<a href="#">POSLocation</a>	Open Enum	Optional	Valid values: Unknown, OnPremise, OffPremise, Retail, Customer, Agent, Branch, CallCenter
end Aggregate			

---

### Police Report Number <PoliceReportNumber>

Police report number for the incident.

Datatype: **C-20**

---

### Police Report Status <PoliceReportStat>

Identifies if the Police Report disposition.

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
Sent		N
Received		N
Request		N
NoInformationWasProvided		N

---

### Point of Service Agent <POSAgent>

The Point of Service Agent aggregate provides information about the agent or employee of the transaction acquirer that assisted the customer in processing the transaction. This aggregate is used for acceptor operated devices.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">AgentType</a>	Open Enum	Optional	The type of agent that assisted the customer creating this message.  Valid values: Unknown, Clerk, Manager, IndependentAgent, AuthorizedAgent  Default value: Clerk
<a href="#">AgentIdent</a>	NC-36	Optional	The identification of the agent of the card acceptor that attended the service device while this message was created. This will usually be the Id of a clerk or similar employee of the card acceptor.
end Aggregate			



---

### Point Of Sale Attended <POSAttended>

An agent of the card acceptor attends the service device.  
Default is false.

Datatype: **Boolean**

---

### Point of Service Capabilities <POSCapabilities>

The Point of Service Capabilities aggregate provides information about the transaction processing capabilities of the transaction acquirer.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">POSAttended</a>	Boolean	Optional	An agent of the card acceptor attends the service device. Default is false.
<a href="#">POSOperation</a>	Open Enum	Optional Repeating	Valid values: CustomerOperated, AcceptorOperated, AdministratorOperated, ScheduleOperated
<a href="#">POSEntryCapability</a>	Open Enum	Optional Repeating	Valid values: Unknown, Manual, MagStripe, BarCode, OCR, ICC, Customer.
<a href="#">POSCaptureCapability</a>	Boolean	Optional	The service provider can capture the identification device. Default is false.
<a href="#">POSVerifyCapability</a>	Open Enum	Optional Repeating	Valid values: Unknown, None, Signature, PictureID, OnlinePIN, OfflinePIN, DigitizedSignature, Biometrics, ICCSignature, Certificate, AddressVerification, TelephoneNumberVerification, PersonalInfoVerification.
<a href="#">POSOutCapabilities</a>	Open Enum	Optional Repeating	Valid values: None, TrackRewrite, ICCUpdate
end Aggregate			

---

**Point Of Sale Capture Capability <POSCaptureCapability>**

The service provider can capture the identification device.  
Default is false.

Datatype: **Boolean**

---

**Point Of Sale Entry Capability <POSEntryCapability>**

Datatype: **Open Enum**

**Enumerated Values**

Value	Description	Is default
Unknown		N
Manual	visual reading	N
MagStripe		N
BarCode		N
OCR		N
ICC		N
Customer	Mail, Telephone, eCommerce	N

---

**Position Held <PositionHeld>**

Position Held by the Party in the social organization (Examples: Vice President, Member, Officer, President, Secretary, Treasurer)

Datatype: **C-40**

---

**Point Of Sale Location <POSLocation>**

Valid values: Unknown, OnPremise, OffPremise, Retail, Customer, Agent.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Unknown		N
OnPremise		N
OffPremise		N
Retail		N
Customer		N
Agent		N
Branch		N
CallCenter		N

---

## Point Of Sale Operation <POSOperation>

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
CustomerOperated		N
AcceptorOperated		N
AdministratorOperated		N
ScheduleOperated		N

---

## Point Of Sale Out Capabilities <POSOutCapabilities>

Valid values: None, TrackRewrite, ICCUpdate

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default

Value	Description	Is default
None		N
TrackRewrite		N
ICCUdate		N

---

## Point of Service Security <POSSecurity>

The Point of Service Security aggregate provides information about the security policies imposed by the transaction acquirer. An account owner or intermediary can use the security policies to judge the likelihood that a transaction has been compromised.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">PSSNetworkType</a>	Open Enum	Optional	The type of network that the document passed through between the transaction initiator and the account owner. When a document passes through several networks this field should reflect the most exposed (least private) communication segment.  Valid values: Unknown, Private, VirtualPrivate, SemiPublic, Public  Default value: Private
<a href="#">PSSMsgMAC</a>	Open Enum	Optional Repeating	The type of MAC processing performed on the document.  Valid values: None, Channel, PassThrough
<a href="#">PSSMsgEncryption</a>	Open Enum	Optional Repeating	The type of encryption performed on the document.  Valid values: None, Channel, EndToEnd
<a href="#">PSSCATSecLevel</a>	Open Enum	Optional	The CAT security level defines the security level of a CAT (cardholder activated terminal) device.  Valid values: PIN, SST, LMT, IFC
end Aggregate			

## Postal Address <PostAddr>

The <PostAddr> aggregate is used wherever a postal address is needed. There are some cases where a synonym is used to distinguish the aggregate from another of the same structure in the same aggregate (e.g., the Billing Address <BillingAddr>, where more than one postal address is present).

Extends: [Locator](#)

Extended By: [BillRetAddr](#), [RemitAddr](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from Locator			
end Elements from Locator			
begin Aggregate			
<a href="#">AddressIdent</a>	NC-36	Optional	Address Identifier
begin-block		Optional	
<a href="#">Addr1</a>	C-64	Optional	Address Line 1.
begin-block		Optional	
<a href="#">Addr2</a>	C-64	Optional	Address Line 2. Required if <Addr3> is present.
begin-block		Optional	
<a href="#">Addr3</a>	C-64	Optional	Address Line 3. Required if <Addr4> is present.
begin-block		Optional	
<a href="#">Addr4</a>	C-64	Optional	Address Line 4.
end-block			
end-block			
end-block			
end-block			
<a href="#">City</a>	C-32	Optional	City.
<a href="#">CountyDistrict</a>	C-32	Optional	County District
<a href="#">StateProv</a>	C-32	Optional	State or Province.
<a href="#">PostalCode</a>	C-11	Optional	Postal Code.
<a href="#">CountryCode</a>	Aggregate	Optional	Country Code
<a href="#">AddrType</a>	Open Enum	Optional	Address Type.

			Defined values: Seasonal, Primary, Secondary, Business, Home
<a href="#">TimeFrame</a>	Aggregate	Optional	Time Frame
<a href="#">UpDt</a>	Timestamp	Optional	Update Date Time
<a href="#">CensusTract</a>	C-20	Optional	Census Tract
<a href="#">CensusBlock</a>	C-20	Optional	Census Block
end Aggregate			

---

### Customer Postal Address Required Indicator <PostAddrReqd>

If set to *True*, the Service Provider requires that <PostAddr> be included in <CustAddrRq>.

Datatype: **Boolean**

---

### Postal Code <PostalCode>

Postal Code. (Zip Code, in the US.)

Datatype: **C-11**

---

### Posting Date <PostedDt>

The date on which the check is posted against the customer's account. For banking, the date on which the transaction was recorded against the account. For transfers, the date on which entries were made on the books of the receiving FI. For credit card transactions, the date on which the transaction was charged or credited to the cardholder account

Datatype: **Date**

---

### Posting Control Date <PostingControlDt>

The date used to determine if transactions should post to the card or to suspense in the case of lost/stolen card. Transactions on or before this date post to card.

Datatype: **DateTime**

---

### Posting Total Type <PostingTotalType>

Used to further clarify a session balance amount.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Debit	The total returned will be that of the debit transactions	N
Credit	The total returned will be that of the credit transactions.	N

---

### Postmailer Date <PostmailerDt>

Date the card post mailer will be or was produced.

Datatype: **DateTime**

---

### Point Of Sale Verify Capability <POSVerifyCapability>

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Unknown		N
None		N
Signature		N
PictureID		N
OnlinePIN		N
OfflinePIN		N
DigitizedSignature		N
Biometrics		N
ICCSignature		N
Certificate		N
AddressVerification		N
TelephoneNumberVerification		N
PersonallInfoVerification.		N

---

### Processing Days Off <PrcDaysOff>

Days of the week on which no processing occurs at a Service Provider.

Datatype: **Closed Enum**

### Enumerated Values

Value	Description	Is default
Monday		N
Tuesday		N
Wednesday		N
Thursday		N
Friday		N
Saturday		N
Sunday		N
Holiday		N

---

### Processing Date <PrcDt>

Processing Date

Datatype: **Date**



---

## Processing Date Adjustment <PrcDtAdj>

Algorithm used for adjustment of processing for requests that fall on non-processing days or holidays.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Earlier	Processing of request will take place the first business date before the specified date.	N
Later	Processing of request will take place the first business date after the specified date.	N

---

## Processing Date Range <PrcDtRange>

This aggregate identifies the start date and/or the end date as a selection criterion of processed items.

Extends: [DtRange](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from DtRange			
begin-or		Required	
<a href="#">StartDt</a>	DateTime	Required	Selection Start Date.
<a href="#">EndDt</a>	DateTime	Required	Selection End Date.
end-or			
end Elements from DtRange			
begin Aggregate			
end Aggregate			

---

### Processing Schedule <PrcSched>

The <PrcSched> aggregate appears wherever information about a Service Provider's processing schedule is needed. Note that this aggregate does not take holidays into account.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">PrcDaysOff</a>	Closed Enum	Optional Repeating	Processing Days Off Valid values are limited to: Friday, Holiday, Monday, Saturday, Sunday, Thursday, Tuesday, Wednesday
<a href="#">CutoffTm</a>	Time	Required	Cutoff for Daily Processing
<a href="#">PrcDtAdj</a>	Open Enum	Required	Processing Date Adjustment Valid values include: Earlier, Later
<a href="#">HolidayData</a>	Aggregate	Optional Repeating	Holiday Data
end Aggregate			

---

### Pre Authorization Indicator <PreAthInd>

Indicates if it is a pre-authorization that will not have a matching interchange transaction.

Datatype: **Boolean**

---

### Preferred Bank <PreferredBank>

The preferred bank of the Party.

Datatype: **C-32**

---

**Preferred Branch <PreferredBranch>**

The preferred branch of the Party.

Datatype: **C-32**

---

**Preferred Indicator <PreferredInd>**

Indicates whether this particular element is the preferred when multiple are present.

Datatype: **Boolean**

---

**Preferred Name <PreferredName>**

Preferred Name. Ex. The person is requesting to be called "Tony" instead of "Anthony", or maybe the Doctor does not want all degrees included in the mail, just MD.

Datatype: **C-96**

---

**Prefetch URL <PrefetchURL>**

Prefetch . Used to support off-line viewing of the bill. Each <PrefetchURL> points to a local Web page

Datatype: **URL**

---

### Preissue Expiration Date <PreissueExpirationDt>

Logical expiration set on the card; Utilized for Pre Issued cards to set an expiration date once assigned.

Datatype: **DateTime**

---

### Premailer Date <PreamailerDt>

Date the card premailer will be or was produced.

Datatype: **DateTime**

---

### Pre Paid Account Balance <PrePaidAcctBal>

The <PrePaidAcctBal> aggregate is used to express a pre-paid account balance. The balance being specified is identified in <PrePaidBalType>, which is an Open Enum. When <PrePaidAcctBal> is used, it may repeat, to allow multiple balances to be specified for the given pre-paid account.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">PrePaidBalType</a>	Open Enum	Required	Pre Paid Balance Type. Defined Values: Avail, Pending.
begin-or		Required	
<a href="#">CurAmt</a>	Aggregate	Required	Currency Amount. This currency amount references the Balance Amount.
<a href="#">PrePaidUnits</a>	Aggregate	Required	Pre Paid Units Aggregate.
end-or			
<a href="#">EffDt</a>	DateTime	Optional	Effective DateTime. Effective Date of the Balance.
<a href="#">ExpDt</a>	DateTime	Optional	Expiration DateTime. Expiration Date of the Balance.
<a href="#">Desc</a>	C-80	Optional	Description of the balance.

end Aggregate

---

### Pre Paid Account Identifier <PrePaidAcctIdent>

Pre Paid Account Identifier.

Datatype: **NC-32**

---

### Pre Paid Balance Type <PrePaidBalType>

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Avail	Used for the available balance.	N
Pending	Value that indicates a balance that needs further (batch) processing before it will become available.	N

---

### Prepaid Purchase Item Detail <PrePaidPurchaseItemDetail>

Extends: [PurchItemDetail](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from PurchItemDetail			
end Elements from PurchItemDetail			
begin Aggregate			
<a href="#">PrePaidUnits</a>	Aggregate	Optional	Pre Paid Units
<a href="#">PrePaidPurchItemRespDetail</a>	Aggregate	Required	Pre Paid Purchase Item

			Response Detail Aggregate. Also contains details about top-up of a pre paid account.
end Aggregate			

---

### Pre Paid Purchase Item Detail <PrePaidPurchItemDetail>

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">PrePaidUnits</a>	Aggregate	Optional	Pre Paid Units Aggregate.
end Aggregate			

---

### Pre Paid Purchase Item Response Detail <PrePaidPurchItemRespDetail>

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">ActivationNum</a>	NC-32	Optional	A code supplied to the customer to activate a top up of a pre-paid account. This field will be supplied to the customer in the clear. The top-up service provider sets this field in an approved top-up response if a separate activation is required.
<a href="#">ActivationPhone</a>	Phone Number	Optional	Activation Phone Number supplied to the customer, to be used in conjunction with the ActivationNum (if a separate activation of the top-up via phone is required).
<a href="#">ExpDt</a>	DateTime	Optional	Expiration Date/Time. The time the service provider account expires (can change with every top-up of a pre-paid account).
<a href="#">PrePaidAcctIdent</a>	NC-32	Optional	Pre Paid Account Identifier.
	Aggregate		

<a href="#">PrePaidAcctBal</a>		Optional Repeating	Prepaid account balance aggregate. Repeated for each balance to be included for the prepaid account.
end Aggregate			

---

## Pre Paid Units <PrePaidUnits>

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">PrePaidValue</a>	Decimal	Required	A value specifying the number of items of the pre paid account's inventory type. The value can have a fraction part.
<a href="#">MeasureUnit</a>	Open Enum	Optional	<p>Measuring unit of &lt;PrePaidValue&gt;.</p> <p>Values are built by appending English names of base and derived units defined in the standards ISO 31 "Quantities and units" and ISO 1000 "SI units and recommendations for the use of their multiple and of certain other units" (see also "ISO Standards Handbook – Quantities and units").</p> <p>Each word's first letter will be capitalized.</p> <p>Defined Value: Second</p>
<a href="#">CollateralDesc</a>	C-80	Optional	<p>Collateral Description added by the purchase service provider. It can contain a different representation of the available top-up items.</p> <p>Example: For a phone prepaid top-up account field &lt;PrePaidValue&gt; could contain the number of minutes as a decimal value while CollateralDesc could contain the number of minutes in the format HHH:MM.SS (with HHH meaning hours, MM minutes and SS seconds).</p>
end Aggregate			

---

### Pre Paid Value <PrePaidValue>

A value specifying the number of items of the pre paid account's inventory type. The value can have a fraction part.

Datatype: **Decimal**

---

### Prepay Penalty <PrepayPenalty>

Amount charged for paying off a loan prior to the specified term.

Extends: [CurAmt](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from CurAmt			
<a href="#">Amt</a>	Decimal	Optional	Amount.
<a href="#">CurCode</a>	Aggregate	Optional	Currency Code
end Elements from CurAmt			
begin Aggregate			
end Aggregate			

---

### Previous Expiration Date <PreviousExpirationDt>

The previous expiration date for the card.

Datatype: **DateTime**

---

### Previous Valid From Date <PreviousValidFromDt>

The previous valid from date for the card.



Datatype: **DateTime**

---

### Previous Year Currency Amount <PrevYrCurAmt>

Used in <BankAcctTaxRs> to return the prior year tax amount on an account.

Extends: [CurAmt](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from CurAmt			
<a href="#">Amt</a>	Decimal	Optional	Amount.
<a href="#">CurCode</a>	Aggregate	Optional	Currency Code
end Elements from CurAmt			
begin Aggregate			
end Aggregate			

---

### Pricing Code <PricingCode>

This aggregate lists a configuration code and its value as it relates to a component of the terms and conditions, such as a payment spread calculation or a minimum payment calculation, that are included in the account pricing.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">PricingCodeType</a>	Open Enum	Optional	Pricing Code Type Valid values include: MinimumPayment, PaymentSpread
<a href="#">PricingCodeValue</a>	C-40	Optional	Pricing Code Value
<a href="#">TimeFrame</a>	Aggregate	Optional	Time Frame
end Aggregate			

---

### **Pricing Code Type <PricingCodeType>**

A configuration code that defines a component of the terms and conditions, such as a payment spread calculation or a minimum payment calculation that is included in the account pricing.

Datatype: **Open Enum**

### **Enumerated Values**

Value	Description	Is default
PaymentSpread	Payment Spread Options	N
MinimumPayment	Minimum Payment Options	N

---

### **Pricing Code Value <PricingCodeValue>**

Defines the pricing code type value.

Datatype: **C-40**

---

### **Pricing Plan Identifier <PricingPlanIdent>**

Unique identifier assigned to a pricing plan.

Datatype: **C-36**

---

### **Pricing Reason <PricingReason>**

The reason for overriding the default terms and conditions for the type of

account pricing. For example, Standard, Promotional, VIP, Employee, Soldier or Waiver.

Datatype: **C-40**

---

### Primary Party Reference <PrimaryPartyRef>

Primary Party Reference

Extends: [PartyRef](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from PartyRef			
begin-xor		Required	
<a href="#">PartyKeys</a>	Aggregate	Required	Party Keys Aggregate
<a href="#">PartyRec</a>	Aggregate	Required	Party Record Aggregate
<a href="#">PartyInfo</a>	Abstract Aggregate	Required	Party Information Aggregate <b>Valid Aggregates are:</b> OrgPartyInfo PersonPartyInfo
end-xor			
end Elements from PartyRef			
begin Aggregate			
end Aggregate			

---

### Print Receipt <PrintReceipt>

Identifies the customer's preference for printing receipts.

Datatype: **Boolean**

---

**Priority <Priority>**

Priority. Usage defined by context.

Datatype: **C-10**

---

**Prior Name Indicator <PriorNameInd>**

Prior Name Indicator. Indicates whether this name is current or prior.

Datatype: **Boolean**

---

**Process Concurrent <ProcessConcurrent>**

Defines if messages can be processed concurrently. The default is false, i.e. messages must be processed sequentially, if omitted.

Datatype: **Boolean**

---

**Process Control <ProcessControl>**

Process Control Field on a check's MICR line.

Datatype: **C-6**

---

**Product Interest Rate Environment Aggregate <ProdIntRateEnvr>**

Product Interest Rate Environment Aggregate

Extends: [BaseEnvr](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseEnvr			
<a href="#">CreatedDt</a>	DateTime	Required	Created Date/Time. The date/time the object was created.
<a href="#">CreateRefIdent</a>	NC-36	Optional	An identifier used to uniquely identify the creation of this object to the system that created the object. This will usually be a link to reference information used in creating the object.
<a href="#">ClientCreateDt</a>	DateTime	Optional	The created date/time as reported by the client. This can vary from the object creation date/time due to time zone differences, communication delays, etc
<a href="#">ClientBusinessDt</a>	DateTime	Optional	The date/time that the client recorded this object for operational purposes. This date/time will often be used to manage the availability of information or funds.
<a href="#">LastUpdateDt</a>	DateTime	Optional	Last update Date/Time. The date/time the object was created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LastUpdateRqUID</a>	UUID	Optional	Last update RqUID. The RqUID from the message that resulted in th object being created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LoginName</a>	C-40	Optional	The login name (or Id) of the individual that authorized this object to be created. This is typically used when the object is created on behalf of its owner by someone who is not normally represented as a Party (i.e., an employee or agent).
<a href="#">PartyKeys</a>	Aggregate	Optional	Reference to the Party that this object is owned by or authorized by.
<a href="#">CardKeys</a>	Aggregate	Optional	This is dependent on Card proposal. Currently this is implemented as the CardLogicalData aggregate.
<a href="#">PassbkKeys</a>	Aggregate	Optional	Currently PassbkAcceptData.
<a href="#">NetworkTrnData</a>	Aggregate	Optional	Network Transaction Information. Identification and location of the terminal from which the message originates.
<a href="#">ServerTerminalSeqNum</a>	NC-36	Optional	Server Terminal Sequence Number. A terminal sequence number generated

			by the server to identify this object. This number is used in ATM and POS environments to uniquely identify transactions (with terminal name and date) for transaction management.
<a href="#">PointOfServiceData</a>	Aggregate	Optional	The Point of Service Data. This aggregate contains information about the environment in which this message originated.
<a href="#">ClientTerminalSeqNum</a>	NC-36	Optional	Client Terminal Sequence Number. A terminal sequence number generated by the client to identify this object. This number is used in ATM, POS, Branch, Call Center and Teller environments to uniquely identify transactions at the client (with terminal name and date). This number is often required when requesting supporting documentation related to a customer transaction.
end Elements from BaseEnvr			
begin Aggregate			
end Aggregate			

---

### Product Interest Rate Identifier <ProdIntRateId>

Product Interest Rate Identifier

Datatype: **Identifier**

---

### Product Interest Rate Information Aggregate <ProdIntRateInfo>

Product Interest Rate Information Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">ProductIdent</a>	C-42	Required	Product Identifier
<a href="#">AcctType</a>	Aggregate	Optional	Account Type

<a href="#">Term</a>	Aggregate	Optional	The Term for a deposit or credit account.
<a href="#">IntRateData</a>	Aggregate	Optional Repeating	Interest Rate Data
<a href="#">RateChange</a>	Aggregate	Optional	Rate Change
end Aggregate			

---

### Product Interest Rate Inquiry Request <ProdIntRateInqRq>

Product Interest Rate Inquiry Request

See the matching response message [ProdIntRateInqRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">DocCtrlIn</a>	Aggregate	Optional	Document Control Input
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
begin-xor		Optional Repeating	
<a href="#">ProdIntRateSel</a>	Aggregate	Required	Product Interest Rate Selection Aggregate
<a href="#">RecSelect</a>	IfxPath	Required	Record Select
end-xor			
end Aggregate			

---

### Product Interest Rate Inquiry Response <ProdIntRateInqRs>

Product Interest Rate Inquiry Response

See the matching request message [ProdIntRateInqRq](#)

Datatype: **Aggregate**

---

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Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">DocCtrlOut</a>	Aggregate	Optional	Document Control Output
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">ProdIntRateRec</a>	Aggregate	Required Repeating	Product Interest Rate Record
end-block			
end Aggregate			

---

### Product Interest Rate Keys Aggregate <ProdIntRateKeys>

Product Interest Rate Keys Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
begin-xor		Required	
<a href="#">ProdIntRateId</a>	Identifier	Required	Product Interest Rate Identifier
end-xor			
end Aggregate			

---

### Product Interest Rate Record <ProdIntRateRec>

Product Interest Rate Record

Datatype: **Aggregate**

---



Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">ProdIntRateId</a>	Identifier	Required	Product Interest Rate Identifier
<a href="#">ProdIntRateInfo</a>	Aggregate	Required	Product Interest Rate Information Aggregate
<a href="#">ProdIntRateEnvr</a>	Aggregate	Optional	Product Interest Rate Environment Aggregate
<a href="#">ProdIntRateStatus</a>	Aggregate	Required	Product Interest Rate Status Aggregate
end Aggregate			

---

### Product Interest Rate Reference Aggregate <ProdIntRateRef>

Product Interest Rate Reference Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">ProdIntRateKeys</a>	Aggregate	Required	Product Interest Rate Keys Aggregate
<a href="#">ProdIntRateRec</a>	Aggregate	Required	Product Interest Rate Record
<a href="#">ProdIntRateInfo</a>	Aggregate	Required	Product Interest Rate Information Aggregate
end-xor			
end Aggregate			

---

### Product Interest Rate Selection Aggregate <ProdIntRateSel>

Product Interest Rate Selection Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			

begin-xor		Required Repeating	
<a href="#">ProdIntRateKeys</a>	Aggregate	Required	Product Interest Rate Keys Aggregate
begin-block		Required	
<a href="#">AcctType</a>	Aggregate	Optional	Account Type
<a href="#">ProductIdent</a>	C-42	Optional	Product Identifier
<a href="#">DtRange</a>	Aggregate	Optional	Date Range
end-block			
end-xor			
end Aggregate			

---

### Product Interest Rate Status Aggregate <ProdIntRateStatus>

Product Interest Rate Status Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">ProdIntRateStatusCode</a>	Open Enum	Required	Product Interest Rate Status Code Valid values include: Deleted, Valid
<a href="#">StatusDesc</a>	C-255	Optional	Status Description
<a href="#">EffDt</a>	DateTime	Optional	Effective Date Time
<a href="#">ApprovalIdent</a>	NC-36	Optional	Approval Identifier
<a href="#">StatusModBy</a>	Open Enum	Optional	Status Modified By Valid values include: BPP, BPPSR, BSP, BSPSR, CPP, CPPSR, CSP, CSPSR, Customer, FI, PSP
end Aggregate			

---

### Product Interest Rate Status Code <ProdIntRateStatusCode>

Product Interest Rate Status Code

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Valid		N
Deleted		N

---

### Product Interest Rate Status Record <ProdIntRateStatusRec>

Product Interest Rate Status Record

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">Svcldent</a>	Aggregate	Optional	Service Identifier
<a href="#">ProdIntRateId</a>	Identifier	Required	Product Interest Rate Identifier
<a href="#">ProdIntRateStatus</a>	Aggregate	Required	Product Interest Rate Status Aggregate
end Aggregate			

---

### Product Identifier <ProductIdent>

Product Identifier

Datatype: **C-42**

---

### Production Priority <ProductionPriority>

A user defined indicator for prioritizing plastic production.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Urgent		N
Emergency		N
Standard		N

---

### Prompt. <Prompt>

The short prompt to be displayed to the user, explaining the value to be returned in <SecretList> for this secret.

Datatype: **C-20**

---

### Property Phone Number <PropertyPhoneNumber>

The specific lodging property location local phone number.

Datatype: **Phone Number**

---

### Proxy Client <ProxyClient>

In the case where the IFX client is composing requests for some other application that the user is running (e.g., a Web browser), the details of the customer's interface application should be included here. It has the same structure as the <ClientApp> aggregate.

Extends: [ClientApp](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from ClientApp			

<a href="#">Org</a>	Identifier	Required	Organization. This identifies the client application manufacturer.
<a href="#">Name</a>	C-40	Required	Client Application Name.
<a href="#">Version</a>	NC-12	Required	Client Application Version.
end Elements from ClientApp			
begin Aggregate			
end Aggregate			

---

### PSSCAT Security Level <PSSCATSecLevel>

The CAT security level defines the security level of a CAT (cardholder activated terminal) device.

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
PIN		N
SST	self service	N
LMT	limited amount	N
IFC	in flight	N

---

### PSS Message Encryption <PSSMsgEncryption>

The type of encryption performed on the document

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
None		N
Channel		N
EndToEnd		N

---

### **PSS Message MAC <PSSMsgMAC>**

The type of MAC processing performed on the document.

Datatype: **Open Enum**

### **Enumerated Values**

Value	Description	Is default
None		N
Channel		N
PassThrough		N

---

### **PSS Network Type <PSSNetworkType>**

Datatype: **Open Enum**

### **Enumerated Values**

Value	Description	Is default
Unknown		N
Private		N
VirtualPrivate		N
SemiPublic		N
Public		Y

---

### **Clear Text Password <Pswd>**

Clear text Password. Used only when <CryptType> = None

Datatype: **C-32**

---

## Purchase Item Request Message <PurchItemAddRq>

The Purchase Item Add message is used to add a purchase item to a purchase object. If no purchase object is referenced a one-item purchase is assumed.

See the matching response message [PurchItemAddRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">PurchItemInfo</a>	Aggregate	Required	Purchase Item Information Aggregate
end Aggregate			

---

## Purchase Item Response Message <PurchItemAddRs>

See the matching request message [PurchItemAddRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">PurchItemRec</a>	Aggregate	Required	Purchase Item Record Aggregate
<a href="#">PurchItemStatusRec</a>	Aggregate	Required	Purchase Item Status Record Aggregate
end-xor			

end-block
end Aggregate

## Purchase Item Request Message <PurchItemDelRq>

See the matching response message [PurchItemDelRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">PurchItemKeys</a>	Aggregate	Required	Purchase Item Keys Aggregate
end Aggregate			

## Purchase Item Response Message <PurchItemDelRs>

See the matching request message [PurchItemDelRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">PurchItemRec</a>	Aggregate	Required	Purchase Item Record Aggregate
<a href="#">PurchItemStatusRec</a>	Aggregate	Required	Purchase Item Status Record Aggregate



end-xor
end-block
end Aggregate

---

**Purchase Item Description. <PurchItemDesc>**

Datatype: **C-80**

---

**Purchase Item Detail <PurchItemDetail>**

Purchase Details specific for the item's inventory type.

Extended By: [PrePaidPurchaseItemDetail](#)

Datatype: **Abstract Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
end Aggregate			

---

**Purchase Item Environment Aggregate <PurchItemEnvr>**

Purchase Item Environment Aggregate

Extends: [BaseEnvr](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseEnvr			
<a href="#">CreatedDt</a>	DateTime	Required	Created Date/Time. The date/time the object was created.
<a href="#">CreateRefIdent</a>	NC-36	Optional	An identifier used to uniquely identify the creation of this object to the system that created the object. This

			will usually be a link to reference information used in creating the object.
<a href="#">ClientCreateDt</a>	DateTime	Optional	The created date/time as reported by the client. This can vary from the object creation date/time due to time zone differences, communication delays, etc
<a href="#">ClientBusinessDt</a>	DateTime	Optional	The date/time that the client recorded this object for operational purposes. This date/time will often be used to manage the availability of information or funds.
<a href="#">LastUpdateDt</a>	DateTime	Optional	Last update Date/Time. The date/time the object was created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LastUpdateRqUID</a>	UUID	Optional	Last update RqUID. The RqUID from the message that resulted in the object being created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LoginName</a>	C-40	Optional	The login name (or Id) of the individual that authorized this object to be created. This is typically used when the object is created on behalf of its owner by someone who is not normally represented as a Party (i.e., an employee or agent).
<a href="#">PartyKeys</a>	Aggregate	Optional	Reference to the Party that this object is owned by or authorized by.
<a href="#">CardKeys</a>	Aggregate	Optional	This is dependent on Card proposal. Currently this is implemented as the CardLogicalData aggregate.
<a href="#">PassbkKeys</a>	Aggregate	Optional	Currently PassbkAcceptData.
<a href="#">NetworkTrnData</a>	Aggregate	Optional	Network Transaction Information. Identification and location of the terminal from which the message originates.
<a href="#">ServerTerminalSeqNum</a>	NC-36	Optional	Server Terminal Sequence Number. A terminal sequence number generated by the server to identify this object. This number is used in ATM and POS environments to uniquely identify transactions (with terminal name and date) for transaction management.
<a href="#">PointOfServiceData</a>	Aggregate	Optional	The Point of Service Data. This aggregate contains information about the environment in which this message originated.
<a href="#">ClientTerminalSeqNum</a>	NC-36	Optional	Client Terminal Sequence Number. A

		terminal sequence number generated by the client to identify this object. This number is used in ATM, POS, Branch, Call Center and Teller environments to uniquely identify transactions at the client (with terminal name and date). This number is often required when requesting supporting documentation related to a customer transaction.
end Elements from BaseEnvr		
begin Aggregate		
end Aggregate		

---

### Purchase Item Identifier <PurchItemId>

Purchase Item Identifier

Datatype: **Identifier**

---

### Purchase Item Information Aggregate <PurchItemInfo>

Purchase Item Information Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SeqNum</a>	Long	Optional	Purchase Item Sequence number, assigned by the IFX client.
<a href="#">Count</a>	Long	Required	A count specifying the number of purchased items identified by InvItemid.
<a href="#">InvItemIdent</a>	NC-36	Required	Inventory Item Identifier.
<a href="#">PurchItemDesc</a>	C-80	Optional	Purchase Item Description.
begin-or		Optional Repeating	
<a href="#">CompositeCurAmt</a>	Aggregate	Optional Repeating	The currency amount values for one purchase item.

<a href="#">TotalCompositeCurAmt</a>	Aggregate	Optional Repeating	The sum of the currency value of all purchase items in this PurchItem aggregate..
end-or			
<a href="#">PurchItemDetail</a>	Abstract Aggregate	Optional	Purchase Details specific for the item's inventory type. <b>Valid Aggregates are:</b> PrePaidPurchaseItemDetail
<a href="#">CSPhoneNum</a>	Phone Number	Optional	Card (customer) service phone number
<a href="#">FullName</a>	C-96	Optional	Full Name
end Aggregate			

---

### Purchase Item Request Message <PurchItemInqRq>

See the matching response message [PurchItemInqRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">DocCtrlIn</a>	Aggregate	Optional	Document Control Input
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
begin-xor		Optional Repeating	
<a href="#">PurchItemSel</a>	Aggregate	Required	Purchase Item Selection Aggregate
<a href="#">RecSelect</a>	IfxPath	Required	Record Select
end-xor			
end Aggregate			

---

### Purchase Item Response Message <PurchItemInqRs>

See the matching request message [PurchItemInqRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">DocCtrlOut</a>	Aggregate	Optional	Document Control Output
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">PurchItemRec</a>	Aggregate	Required Repeating	Purchase Item Record Aggregate
end-block			
end Aggregate			

---

### Purchase Item Keys Aggregate <PurchItemKeys>

Purchase Item Keys Aggregate

Extends: [BaseKeys](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseKeys			
end Elements from BaseKeys			
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
begin-xor		Required	
<a href="#">PurchItemId</a>	Identifier	Required	Purchase Item Identifier
end-xor			
end Aggregate			

---

## Purchase Item Request Message <PurchItemModRq>

See the matching response message [PurchItemModRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">PurchItemKeys</a>	Aggregate	Required	Purchase Item Keys Aggregate
begin-block		Required Repeating	
<a href="#">PurchItemInfo</a>	Aggregate	Required	Purchase Item Information Aggregate
begin-xor		Optional Repeating	
<a href="#">DelElements</a>	IfxPath	Required	An IfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to delete. It is an error if one attempts to delete Required fields.
<a href="#">UpdElements</a>	IfxPath	Required	An IfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to update. The new value of the updated element is in the accompanying xxxInfo aggregate.
<a href="#">NewElements</a>	IfxPath	Required	An IfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to add. The new value of the new elements is in the accompanying xxxInfo aggregate.
end-xor			
end-block			
end Aggregate			

---

## Purchase Item Response Message <PurchItemModRs>

See the matching request message [PurchItemModRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">PurchItemRec</a>	Aggregate	Required	Purchase Item Record Aggregate
<a href="#">PurchItemStatusRec</a>	Aggregate	Required	Purchase Item Status Record Aggregate
end-xor			
end-block			
end Aggregate			

---

**Purchase Item Record Aggregate <PurchItemRec>**

Purchase Item Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">PurchItemId</a>	Identifier	Required	Purchase Item Identifier
<a href="#">PurchItemInfo</a>	Aggregate	Required	Purchase Item Information Aggregate
<a href="#">PurchItemEnvr</a>	Aggregate	Optional	Purchase Item Environment Aggregate
<a href="#">PurchItemStatus</a>	Aggregate	Required	Purchase Item Status Aggregate
end Aggregate			

---

**Purchase Item Reference Aggregate <PurchItemRef>**

## Purchase Item Reference Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">PurchItemKeys</a>	Aggregate	Required	Purchase Item Keys Aggregate
<a href="#">PurchItemRec</a>	Aggregate	Required	Purchase Item Record Aggregate
<a href="#">PurchItemInfo</a>	Aggregate	Required	Purchase Item Information Aggregate
end-xor			
end Aggregate			

---

## Purchase Item Request Message <PurchItemRevRq>

See the matching response message [PurchItemRevRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RevReasonCode</a>	Aggregate	Required	Reversal Reason Code
<a href="#">Desc</a>	C-80	Optional	Description
<a href="#">PurchItemRqMsg</a>	Aggregate	Required	Purchase Item Request Message Record Aggregate
end Aggregate			

---

## Purchase Item Response Message <PurchItemRevRs>

See the matching request message [PurchItemRevRq](#)



Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
end Aggregate			

---

**Purchase Item Request Message Record Aggregate**  
<PurchItemRqMsg>

Purchase Item Request Message Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">PurchItemAddRq</a>	Aggregate	Required	Purchase Item Add Message
<a href="#">PurchItemModRq</a>	Aggregate	Required	Purchase Item Modify Request
<a href="#">PurchItemDelRq</a>	Aggregate	Required	Purchase Item Delete Request
<a href="#">PurchItemInqRq</a>	Aggregate	Required	Purchase Item Inquiry Request
<a href="#">RevRqUID</a>	UUID	Required	Reversal Request Unique ID
end-xor			
end Aggregate			

---

**Purchase Item Selection Aggregate** <PurchItemSel>

Purchase Item Selection Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
-----	------	-------	---------------------------

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required Repeating	
<a href="#">PurchItemKeys</a>	Aggregate	Required	Purchase Item Keys Aggregate
end-xor			
end Aggregate			

---

### Purchase Item Status Aggregate <PurchItemStatus>

Purchase Item Status Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">PurchItemStatusCode</a>	Open Enum	Required	Purchase Item Status Code Valid values include: Canceled, Deleted, Failed, Processed, Rejected, UnProcessed, Valid
<a href="#">StatusDesc</a>	C-255	Optional	Status Description
<a href="#">EffDt</a>	DateTime	Optional	Effective Date Time
<a href="#">ApprovalIdent</a>	NC-36	Optional	Approval Identifier
<a href="#">StatusModBy</a>	Open Enum	Optional	Status Modified By Valid values include: BPP, BPPSR, BSP, BPSR, CPP, CPPSR, CSP, CSPSR, Customer, FI, PSP
end Aggregate			

---

### Purchase Item Status Code <PurchItemStatusCode>

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Rejected		N
UnProcessed	Used in cases where a purchased item is part of a purchase and the purchase has not been processed ("shopping cart" purchase model).	N
Processed	Used when the purchased item was successfully processed.	N
Canceled		N
Valid		N
Deleted		N
Failed		N

---

### Purchase Item Status Record Aggregate <PurchItemStatusRec>

Purchase Item Status Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">PurchItemId</a>	Identifier	Required	Purchase Item Identifier
<a href="#">PurchItemStatus</a>	Aggregate	Required	Purchase Item Status Aggregate
end Aggregate			

---

### Purge Date <PurgeDt>

Purge Date. Usage based on context.

Datatype: **Date**

---

### Purpose Description <PurposeDesc>

Purpose for Loan or LOC

Datatype: **C-80**

---

**Question <Question>**

Text content of the question or option.

Datatype: **C-unbound**

---

**Question and Answer Pair <QuestionAnswer>**

Aggregate stores question and respective answers based on usage.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">QuestionIdent</a>	NC-36	Required	Question Identifier
<a href="#">Question</a>	C-unbound	Required	Question
end-xor			
<a href="#">Selection</a>	Open Enum	Optional	Selection Valid values include: Accept, Ack, Decline, No, NoAck, OptIn, OptOut, Yes
<a href="#">Answer</a>	C-255	Optional	Answer
end Aggregate			

---

**Question Identifier <QuestionIdent>**

Identifies the question or option posed to party.

Datatype: **NC-36**

---

**Rate <Rate>**

Used as a percentage (e.g. a value of 5.2 equals 5.2%).

Datatype: **Decimal**

---

**Rate Change <RateChange>**

Defines rate change information for a product that has a variable rate.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RateChangeFreq</a>	Open Enum	Optional	Frequency of the Rate Change.  Valid values include: EndOfMonth, EndOfQtr, EndOfYear, IssuedAnnually, IssuedMonthly, IssuedQtrly, IssuedSemiAnly, Never, OnRequest
<a href="#">RateChangeLimit</a>	Long	Optional	Maximum number of times rate can change.
<a href="#">RateChangeVar</a>	Decimal	Optional	Maximum variance allowed for each rate change.
<a href="#">BackDateAllowInd</a>	Boolean	Optional	Indicates if a rate change is allowed to be back dated.
end Aggregate			

---

**Rate Change Frequency <RateChangeFreq>**

How often the interest rate on an account could be changed by the financial institution.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
EndOfMonth	End of month	N
EndOfQtr	End of quarter	N
EndOfYear	End of year	N
IssuedMonthly	Issued monthly	N
IssuedQtrly	Issued quarterly	N
IssuedSemiAnly	Issued semi-annually	N
IssuedAnnually	Issued annually	N
OnRequest	Upon request	N
Never	Never	N

---

### Rate Change Limit <RateChangeLimit>

Maximum number of times rate can be changed by the financial institution within the current term.

Datatype: **Long**

---

### Rate Change Variance <RateChangeVar>

Maximum percentage increase/decrease the financial institution may apply to the interest rate while changing the interest rate.

Datatype: **Decimal**

---

### Rate Matrix Tier <RateMatrixTier>

Identifies one or more rates applicable to the product. Each occurrence (tier) contains a rate applicable to the product. A tier rate is based on balance, term of account, both, or neither. When the tier is based on

neither balance or term, there is typically only one tier, therefore one rate, for the product.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">Tier</a>	C-32	Optional	Identifies a tier within a tiering structure. Each tier contains a rate which may be based on balance and/or term of deposit/credit account.
<a href="#">LowCurAmt</a>	Aggregate	Optional	Specifies the lowest amount at which an interest rate applies. If the LowCurAmt is not provided it is assumed 0 for the first tier and for additional tiers the LowCurAmt is greater than the HighCurAmt of the previous tier.
<a href="#">HighCurAmt</a>	Aggregate	Optional	Specifies the highest amount at which an interest rate applies.
<a href="#">Term</a>	Aggregate	Optional	Term identified for product tier.
<a href="#">Rate</a>	Decimal	Required	Rate
<a href="#">Margin</a>	Decimal	Optional	Percentage applied to BasedOnValue to calculate interest rate.
<a href="#">IntAPY</a>	Decimal	Optional	Usage is a percentage of yield on an annualized basis.
<a href="#">IntAPR</a>	Decimal	Optional	Interest Annual Percentage Rate
end Aggregate			

---

### Record Count Limit <RecCountLimit>

The <RecCountLimit> aggregate is used as selection criteria in the partial/interim/mini statement inquiry requests messages to specify the "top" or "bottom" number of desired records, or by default (when this aggregate is not present) all records, based on the specified selection criteria, from the server. Specifies options that relate to how the inquiry's query should be performed. E.g., in a transaction set of 10 records, the "top" 5 will be the transactions numbered 1 through 5, and the "bottom" 5 will be the transactions numbered 6 through 10.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			

<a href="#">LimitPosition</a>	Open Enum	Optional	Limit Position Valid values include: Bottom, Top Default Value: Top
<a href="#">MaxRecLimit</a>	Long	Optional	Maximum Records Limit
<a href="#">CurRecLimit</a>	Long	Optional	Current Record Limit
end Aggregate			

### Records Control Input <RecCtrlIn>

The <RecCtrlIn> aggregate is used in inquiry/audit/sync request messages to allow the client to specify a maximum number of records that it is capable of processing within a single response. The initial request omits the <Cursor> element.

Subsequent requests set the <Cursor> to the value returned by the server in the previous response (Rs) message. The <Cursor> value is meaningful to the server and opaque to the client. The <Cursor> is intended to be a pointer to a position within the answer set for the inquiry/audit/sync request.

The client should send the same selection criteria in the initial and subsequent requests. The server may verify that the cursor returned is valid by comparing the search criteria on subsequent requests with the search criteria on the initial request. If they differ, the cursor may be considered invalid and an error returned.

Similarly, if the time between the initial and subsequent requests is too long, the cursor may be rejected on the subsequent request. In this situation, the client may reinitiate the initial request.

### Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RecCountLimit</a>	Aggregate	Optional	Record Count Limit
<a href="#">Cursor</a>	Aggregate	Optional	Cursor Handle
<a href="#">Token</a>	NC-1024	Optional	Token
end Aggregate			



---

## Records Control Output <RecCtrlOut>

The <RecCtrlOut> aggregate is used in inquiry/audit/sync responses to provide a client that used the <RecCtrlIn> aggregate in the request with information it needs to retrieve the rest of the records that matched the specified selection criteria.

The <RecCtrlOut> aggregate must be sent as part of the Rs if the server indicated support for Records Control in the Service Profile by setting <OptSupt> = RecCtrl and one or both of the following are true:

- The Rq contains an <RecCtrlIn> aggregate or
- The server is returning a subset of the available output records in an Rs.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SentRecCount</a>	Long	Required	Sent Record Count
<a href="#">MatchedRecCount</a>	Long	Optional	Matched Record Count
<a href="#">RemainRecCount</a>	Long	Optional	Remaining Record Count
<a href="#">Cursor</a>	Aggregate	Optional	Cursor Handle
<a href="#">Token</a>	NC-1024	Optional	Token
end Aggregate			

---

## Receipt Date <ReceiptDt>

Date on which the correspondence was received from the party.

Datatype: **Date**

---

## Receiving Method <ReceivingMethod>

The instrument by which the payee/beneficiary will receive payment.

When the quote is for a non-deliverable product, then the Receiving Method is not provided.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Draft	a negotiable bank guarantee such as a cheque or cash letter	N
EFT	Electronic Funds Transfer. Funds will be sent from the FI to another FI via an electronic system such as SWIFT, Fed, ACH, CHiPs, CHAPS, etc.	N
Account	funds will be transferred to an account at the FI	N
BankNotes	physical bank notes issued by a country's Federal system, i.e. dollars, euros, pounds, etc.	N
SSI	Standing Settlement Instruction. These are instructions pre-established by the FI and the FI's customer	N

---

## Record Count Limit <RecordCountLimit>

Record Count Limit

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">LimitPosition</a>	Open Enum	Optional	Limit Position Valid values include: Bottom, Top Default Value: Top
<a href="#">MaxRecLimit</a>	Long	Optional	Maximum Records Limit
<a href="#">CurRecLimit</a>	Long	Optional	Current Record Limit
end Aggregate			

---

## Record Select <RecSelect>

Record Select

Datatype: **lfxPath**

---

### Recurring Check Order Request Message <RecurChkOrdAddRq>

The Recurring Check Order Model Add message allows a client to set-up a recurring or repeating check order.

See the matching response message [RecurChkOrdAddRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecurChkOrdInfo</a>	Aggregate	Required	Recurring Check Order Information Aggregate
end Aggregate			

---

### Recurring Check Order Response Message <RecurChkOrdAddRs>

Recurring Check Order Add.

See the matching request message [RecurChkOrdAddRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful

begin-xor		Required	
<a href="#">RecurChkOrdRec</a>	Aggregate	Required	Recurring Check Order Record Aggregate
<a href="#">RecurChkOrdStatusRec</a>	Aggregate	Required	Recurring Check Order Status Record Aggregate
end-xor			
end-block			
end Aggregate			

---

### Recurring Check Order Request Message <RecurChkOrdAudRq>

Recurring Check Order Audit Request message audits a previously added recurring check order record.

See the matching response message [RecurChkOrdAudRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
<a href="#">DtRange</a>	Aggregate	Optional	Date Range
<a href="#">Method</a>	Closed Enum	Optional Repeating	Method Valid values are limited to: Add, Advise, AuthMod, Can, Del, Mod, StatusMod
<a href="#">RecurChkOrdKeys</a>	Aggregate	Optional Repeating	Recurring Check Order Keys Aggregate
end Aggregate			

---

### Recurring Check Order Response Message <RecurChkOrdAudRs>

Recurring Check Order Audit.

See the matching request message [RecurChkOrdAudRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">RecurChkOrdRsMsg</a>	Aggregate	Optional Repeating	Recurring Check OrderResponse Message Record Aggregate
end-block			
end Aggregate			

---

**Recurring Check Order Request Message <RecurChkOrdCanRq>**

Recurring Check Order Cancellation Request message cancels a previously added recurring check order record.

See the matching response message [RecurChkOrdCanRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecurChkOrdKeys</a>	Aggregate	Required	Recurring Check Order Keys Aggregate
end Aggregate			

---

**Recurring Check Order Response Message <RecurChkOrdCanRs>**

Recurring Check Order Cancellation.

See the matching request message [RecurChkOrdCanRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">RecurChkOrdRec</a>	Aggregate	Required	Recurring Check Order Record Aggregate
<a href="#">RecurChkOrdStatusRec</a>	Aggregate	Required	Recurring Check Order Status Record Aggregate
end-xor			
end-block			
end Aggregate			

---

**Recurring Check Order Delete Request <RecurChkOrdDelRq>**

Recurring Check Order Delete Request

See the matching response message [RecurChkOrdDelRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecurChkOrdKeys</a>	Aggregate	Required	Recurring Check Order Keys Aggregate
end Aggregate			

---

**Recurring Check Order Delete Response <RecurChkOrdDelRs>**

## Recurring Check Order Delete Response

See the matching request message [RecurChkOrdDelRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">RecurChkOrdRec</a>	Aggregate	Required	Recurring Check Order Record Aggregate
<a href="#">RecurChkOrdStatusRec</a>	Aggregate	Required	Recurring Check Order Status Record Aggregate
end-xor			
end-block			
end Aggregate			

---

## Recurring Check Order Environment Aggregate <RecurChkOrdEnvr>

Recurring Check Order Environment Aggregate

Extends: [BaseEnvr](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseEnvr			
<a href="#">CreatedDt</a>	DateTime	Required	Created Date/Time. The date/time the object was created.
<a href="#">CreateRefIdent</a>	NC-36	Optional	An identifier used to uniquely identify the creation of this object to the system that created the object. This will usually be a link to reference information used in creating the object.
	DateTime		

<a href="#">ClientCreateDt</a>		Optional	The created date/time as reported by the client. This can vary from the object creation date/time due to time zone differences, communication delays, etc
<a href="#">ClientBusinessDt</a>	DateTime	Optional	The date/time that the client recorded this object for operational purposes. This date/time will often be used to manage the availability of information or funds.
<a href="#">LastUpdateDt</a>	DateTime	Optional	Last update Date/Time. The date/time the object was created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LastUpdateRqUID</a>	UUID	Optional	Last update RqUID. The RqUID from the message that resulted in the object being created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LoginName</a>	C-40	Optional	The login name (or Id) of the individual that authorized this object to be created. This is typically used when the object is created on behalf of its owner by someone who is not normally represented as a Party (i.e., an employee or agent).
<a href="#">PartyKeys</a>	Aggregate	Optional	Reference to the Party that this object is owned by or authorized by.
<a href="#">CardKeys</a>	Aggregate	Optional	This is dependent on Card proposal. Currently this is implemented as the CardLogicalData aggregate.
<a href="#">PassbkKeys</a>	Aggregate	Optional	Currently PassbkAcceptData.
<a href="#">NetworkTrnData</a>	Aggregate	Optional	Network Transaction Information. Identification and location of the terminal from which the message originates.
<a href="#">ServerTerminalSeqNum</a>	NC-36	Optional	Server Terminal Sequence Number. A terminal sequence number generated by the server to identify this object. This number is used in ATM and POS environments to uniquely identify transactions (with terminal name and date) for transaction management.
<a href="#">PointOfServiceData</a>	Aggregate	Optional	The Point of Service Data. This aggregate contains information about the environment in which this message originated.
<a href="#">ClientTerminalSeqNum</a>	NC-36	Optional	Client Terminal Sequence Number. A terminal sequence number generated by the client to identify this object. This number is used in ATM, POS, Branch, Call Center and Teller



		environments to uniquely identify transactions at the client (with terminal name and date). This number is often required when requesting supporting documentation related to a customer transaction.
end Elements from BaseEnvr		
begin Aggregate		
end Aggregate		

---

### Recurring Check Order Identifier <RecurChkOrdId>

Recurring Check Order Identifier

Datatype: **Identifier**

---

### Recurring Check Order Information Aggregate <RecurChkOrdInfo>

Recurring Check Order Information Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">ChkOrdInfo</a>	Aggregate	Required	Check Order Information Aggregate
<a href="#">RecurModel</a>	Aggregate	Optional	Represents a time based recurring pattern.  An Optional usage of <RecurModel> indicates that it is possible to have no <i>set pattern</i> of recurrence.
<a href="#">Nickname</a>	C-40	Optional	Nickname
end Aggregate			

---

## Recurring Check Order Request Message <RecurChkOrdInqRq>

Recurring Check Order Inquiry Request message retrieves recurring check order records based on selection criteria provided.

See the matching response message [RecurChkOrdInqRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">DocCtrlIn</a>	Aggregate	Optional	Document Control Input
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
begin-xor		Optional Repeating	
<a href="#">RecurChkOrdSel</a>	Aggregate	Required	Recurring Check Order Selection Aggregate
<a href="#">RecSelect</a>	lfxPath	Required	Record Select
end-xor			
end Aggregate			

---

## Recurring Check Order Response Message <RecurChkOrdInqRs>

Recurring Check Order Inquiry.

See the matching request message [RecurChkOrdInqRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful

<a href="#">DocCtrlOut</a>	Aggregate	Optional	Document Control Output
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">RecurChkOrdRec</a>	Aggregate	Required Repeating	Recurring Check Order Record Aggregate
end-block			
end Aggregate			

---

### Recurring Check Order Keys Aggregate <RecurChkOrdKeys>

Recurring Check Order Keys Aggregate

Extends: [BaseKeys](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseKeys			
end Elements from BaseKeys			
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
begin-xor		Required	
<a href="#">RecurChkOrdId</a>	Identifier	Required	Recurring Check Order Identifier
end-xor			
end Aggregate			

---

### Recurring Check Order Request Message <RecurChkOrdModRq>

The Recurring Check Order Model Modification message allows a client to modify a previously added recurring or repeating check order.

See the matching response message [RecurChkOrdModRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			

<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecurChkOrdKeys</a>	Aggregate	Required	Recurring Check Order Keys Aggregate
begin-block		Required Repeating	
<a href="#">RecurChkOrdInfo</a>	Aggregate	Required	Recurring Check Order Information Aggregate
begin-xor		Required Repeating	
<a href="#">DelElements</a>	lfxPath	Required	An lfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to delete. It is an error if one attempts to delete Required fields.
<a href="#">UpdElements</a>	lfxPath	Required	An lfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to update. The new value of the updated element is in the accompanying xxxInfo aggregate.
<a href="#">NewElements</a>	lfxPath	Required	An lfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to add. The new value of the new elements is in the accompanying xxxInfo aggregate.
end-xor			
end-block			
end Aggregate			

## Recurring Check Order Response Message <RecurChkOrdModRs>

Recurring Check Order Modification.

See the matching request message [RecurChkOrdModRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			

begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">RecurChkOrdRec</a>	Aggregate	Required	Recurring Check Order Record Aggregate
<a href="#">RecurChkOrdStatusRec</a>	Aggregate	Required	Recurring Check Order Status Record Aggregate
end-xor			
end-block			
end Aggregate			

---

### Recurring Check Order Record Aggregate <RecurChkOrdRec>

Recurring Check Order Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">RecurChkOrdId</a>	Identifier	Required	Recurring Check Order Identifier
<a href="#">RecurChkOrdInfo</a>	Aggregate	Required	Recurring Check Order Information Aggregate
<a href="#">RecurChkOrdEnvr</a>	Aggregate	Optional	Recurring Check Order Environment Aggregate
<a href="#">RecurChkOrdStatus</a>	Aggregate	Required	Recurring Check Order Status Aggregate
end Aggregate			

---

### Recurring Check Order Reference Aggregate <RecurChkOrdRef>

Recurring Check Order Reference Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	

<a href="#">RecurChkOrdKeys</a>	Aggregate	Required	Recurring Check Order Keys Aggregate
<a href="#">RecurChkOrdRec</a>	Aggregate	Required	Recurring Check Order Record Aggregate
<a href="#">RecurChkOrdInfo</a>	Aggregate	Required	Recurring Check Order Information Aggregate
end-xor			
end Aggregate			

### Recurring Check OrderResponse Message Record Aggregate <RecurChkOrdRsMsg>

Recurring Check OrderResponse Message Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">MsgRecDt</a>	Timestamp	Optional	Audit Record Creation Date
begin-xor		Required	
<a href="#">RecurChkOrdAddRs</a>	Aggregate	Required	Recurring Check Order Add Response
<a href="#">RecurChkOrdModRs</a>	Aggregate	Required	Recurring Check Order Modification Response
<a href="#">RecurChkOrdDelRs</a>	Aggregate	Required	
<a href="#">RecurChkOrdCanRs</a>	Aggregate	Required	Recurring Check Order Cancellation Response
<a href="#">RecurChkOrdInqRs</a>	Aggregate	Required	Recurring Check Order Inquiry Response
end-xor			
end Aggregate			

### Recurring Check Order Selection Aggregate <RecurChkOrdSel>

Recurring Check Order Selection Aggregate

Datatype: **Aggregate**

--	--	--	--

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required Repeating	
<a href="#">RecurChkOrdKeys</a>	Aggregate	Required	Recurring Check Order Keys Aggregate
begin-block		Required	
<a href="#">PartyKeys</a>	Aggregate	Optional	Party Keys Aggregate
<a href="#">AcctKeys</a>	Aggregate	Optional	Account Keys Aggregate
end-block			
end-xor			
end Aggregate			

---

### Recurring Check Order Status Aggregate <RecurChkOrdStatus>

Recurring Check Order Status Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RecurChkOrdStatusCode</a>	Open Enum	Required	Recurring Check Order Status Code  Valid values include: Deleted, Valid
<a href="#">StatusDesc</a>	C-255	Optional	Status Description
<a href="#">EffDt</a>	DateTime	Optional	Effective Date Time
<a href="#">ApprovalIdent</a>	NC-36	Optional	Approval Identifier
<a href="#">StatusModBy</a>	Open Enum	Optional	Status Modified By  Valid values include: BPP, BPPSR, BSP, BSPSR, CPP, CPPSR, CSP, CSPSR, Customer, FI, PSP
end Aggregate			

---

### Recurring Check Order Status Code <RecurChkOrdStatusCode>

Recurring Check Order Status Code

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Valid		N
Deleted		N

---

### Recurring Check Order Status Record Aggregate <RecurChkOrdStatusRec>

Recurring Check Order Status Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">RecurChkOrdId</a>	Identifier	Required	Recurring Check Order Identifier
<a href="#">RecurChkOrdStatus</a>	Aggregate	Required	Recurring Check Order Status Aggregate
end Aggregate			

---

### Recurring Check Order Request Message <RecurChkOrdSyncRq>

Recurring Check Order Synchronization Request message synchronizes the client with the server.

See the matching response message [RecurChkOrdSyncRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
	UUID		



<a href="#">RqUID</a>		Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
<a href="#">RecurChkOrdKeys</a>	Aggregate	Optional Repeating	Recurring Check Order Keys Aggregate
end Aggregate			

---

### Recurring Check Order Response Message <RecurChkOrdSyncRs>

Recurring Check Order Synchronization.

See the matching request message [RecurChkOrdSyncRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">RecurChkOrdRsMsg</a>	Aggregate	Optional Repeating	Recurring Check OrderResponse Message Record Aggregate
end-block			
end Aggregate			

---

### Recurrence End Date <RecurEndDate>

Recurrence End Date

Datatype: **Date**

## Recurrence Exception <RecurException>

Indicates an exception to the recurrence rule.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RecurExceptionType</a>	Closed Enum	Required	Indicates which type of exception to a recurring event is defined  Valid values are limited to: Delete, Skip, Update
<a href="#">SkipNextN</a>	Long	Optional	A non-zero integer that indicates that the next <i>N</i> occurrences are to be skipped. Subject to server support.  If <RecurExceptionType> = 'Skip' then <SkipNextN> should be provided.
<a href="#">StartDt</a>	DateTime	Required	Specifies the start date or date/time of the instance of the timeframe that has the exception.  The date portion of must indicate the date of the specific occurrence that is being modified or deleted. The time portion may be different than the stated start time of the initial event or recurring instance in order to signify a change in the starting time.  If <RecurExceptionType>= 'Skip' then the date portion of indicates the date of the first occurrence to be skipped.
begin-xor		Optional	
<a href="#">EndDt</a>	DateTime	Required	Specifies the end date or date/time of the instance of the timeframe that has the exception.  If <RecurExceptionType>= 'Update' then either the <EndDate> or the <Duration> must be provided (Optional XOR).  If the exception is a change in the end date/time, then this value indicates the modified end date/time.
<a href="#">Duration</a>	Aggregate	Required	Specifies the duration of the instance of the timeframe that has the exception, in the unit of measure indicated.  Examples: 2 Hours, 120 Minutes

			<p>If the exception is a change in the duration, then this value indicates the modified duration.</p> <p>If &lt;Duration&gt; = 0 and &lt;RecurExceptionType&gt; = 'Update', interpret as the instance is cancelled (i.e. zero duration = no event). Use of 'Delete' is preferred in this case as it is more obvious.</p> <p>If &lt;RecurExceptionType&gt; is 'Update' then either the &lt;EndDate&gt; or the &lt;Duration&gt; must be provided (Optional XOR).</p>
end-xor			
end Aggregate			

---

### Recurrence Exception Type <RecurExceptionType>

Indicates which type of exception to a recurring event is defined

Datatype: **Closed Enum**

### Enumerated Values

Value	Description	Is default
Update	instance modified; values provided here	N
Delete	instance cancelled	N
Skip	skip a number of recurring instances	N

---

### Recurrence Instance <RecurInstance>

Numeric value representing the instance of the days(s) of the week of recurrence, i.e. Second Wednesday of the month, First Monday of the year.

Valid values: integers between 1 and 5 inclusive

If <RecurInstance> is provided, one or more occurrences of <DayOfWeek> must also be provided. Ex. Second Wednesday of the month: <Instance>=2, <DayOfWeek>='Wednesday'.

Used for <RecurType> = 'Monthly' , 'Yearly'.

Datatype: **Long**

---

### Recurrence Interval <RecurInterval>

Number of units between occurrences. Should be an integer.

- If <RecurType> = 'Daily': Number of days between occurrences.
- If <RecurType> = 'Weekly': Number of weeks between occurrences.
- If <RecurType> = 'Monthly': Number of months between occurrences.
- If <RecurType> = 'Yearly': Number of years between occurrences.
- If not provided, assume default value of 1, i.e. every day, every week, every month, or every year.

Used for all values of <RecurType>.

Datatype: **Long**

---

### Recurrence Model <RecurModel>

Represents a time based recurring pattern.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RecurRule</a>	Aggregate	Optional Repeating	Defines a rule for events that recur in a specific defined pattern.
<a href="#">RecurException</a>	Aggregate	Optional Repeating	Indicates an exception to the recurrence rule.
end Aggregate			

---

## Recurring Payment Model Request Message <RecurPmtAddRq>

The Recurring Payment Model Add message allows a client to set up a recurring or repeating payment where the payment amount is the same. Examples of these types of payments are mortgages, car loans, equity loans, etc. The initial and/or final payment amount may be different from the normal recurring payment amount if supported by the Pay provider.

See the matching response message [RecurPmtAddRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecurPmtInfo</a>	Aggregate	Required	Recurring Payment Model Information Aggregate
end Aggregate			

---

## Recurring Payment Model Response Message <RecurPmtAddRs>

Response to a Recurring Payment Model Add request.

See the matching request message [RecurPmtAddRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">RecurPmtRec</a>	Aggregate	Required	Recurring Payment Model Record Aggregate
<a href="#">RecurPmtStatusRec</a>	Aggregate	Required	Recurring Payment Model Status Record

			Aggregate
end-xor			
end-block			
end Aggregate			

---

### Recurring Payment Model Request Message <RecurPmtAudRq>

Used to audit changes to a recurring payment model object.

See the matching response message [RecurPmtAudRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
<a href="#">DtRange</a>	Aggregate	Optional	Date Range
<a href="#">Method</a>	Closed Enum	Optional Repeating	Method Valid values are limited to: Add, Advise, AuthMod, Can, Del, Mod, StatusMod
<a href="#">RecurPmtKeys</a>	Aggregate	Optional Repeating	Recurring Payment Model Keys Aggregate
end Aggregate			

---

### Recurring Payment Model Response Message <RecurPmtAudRs>

Response to Recurring Payment Model Audit request

See the matching request message [RecurPmtAudRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			

begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">RecurPmtRsMsg</a>	Aggregate	Optional Repeating	Recurring Payment Model Response Message Record Aggregate
end-block			
end Aggregate			

---

### Recurring Payment Model Request Message <RecurPmtCanRq>

The Recurring Payment Model Cancel message allows a client to cancel a customer's Recurring Payment Model. Cancellation of a Recurring Payment Model *always* also cancels any pending Payments that were generated from that model.

See the matching response message [RecurPmtCanRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecurPmtKeys</a>	Aggregate	Required	Recurring Payment Model Keys Aggregate
end Aggregate			

---

### Recurring Payment Model Response Message <RecurPmtCanRs>

Response to a Recurring Payment Model Cancel Request

See the matching request message [RecurPmtCanRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">RecurPmtRec</a>	Aggregate	Required	Recurring Payment Model Record Aggregate
<a href="#">RecurPmtStatusRec</a>	Aggregate	Required	Recurring Payment Model Status Record Aggregate
end-xor			
end-block			
end Aggregate			

---

**Recurring Payment Model Delete Request <RecurPmtDelRq>**

Recurring Payment Model Delete Request

See the matching response message [RecurPmtDelRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecurPmtKeys</a>	Aggregate	Required	Recurring Payment Model Keys Aggregate
end Aggregate			

---

**Recurring Payment Model Delete Response <RecurPmtDelRs>**



## Recurring Payment Model Delete Response

See the matching request message [RecurPmtDelRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">RecurPmtRec</a>	Aggregate	Required	Recurring Payment Model Record Aggregate
<a href="#">RecurPmtStatusRec</a>	Aggregate	Required	Recurring Payment Model Status Record Aggregate
end-xor			
end-block			
end Aggregate			

---

## Recurring Payment Model Environment Aggregate <RecurPmtEnvr>

Recurring Payment Model Environment Aggregate

Extends: [BaseEnvr](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseEnvr			
<a href="#">CreatedDt</a>	DateTime	Required	Created Date/Time. The date/time the object was created.
<a href="#">CreateRefIdent</a>	NC-36	Optional	An identifier used to uniquely identify the creation of this object to the system that created the object. This will usually be a link to reference information used in creating the object.
<a href="#">ClientCreateDt</a>	DateTime	Optional	The created date/time as reported by

			the client. This can vary from the object creation date/time due to time zone differences, communication delays, etc
<a href="#">ClientBusinessDt</a>	DateTime	Optional	The date/time that the client recorded this object for operational purposes. This date/time will often be used to manage the availability of information or funds.
<a href="#">LastUpdateDt</a>	DateTime	Optional	Last update Date/Time. The date/time the object was created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LastUpdateRqUID</a>	UUID	Optional	Last update RqUID. The RqUID from the message that resulted in the object being created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LoginName</a>	C-40	Optional	The login name (or Id) of the individual that authorized this object to be created. This is typically used when the object is created on behalf of its owner by someone who is not normally represented as a Party (i.e., an employee or agent).
<a href="#">PartyKeys</a>	Aggregate	Optional	Reference to the Party that this object is owned by or authorized by.
<a href="#">CardKeys</a>	Aggregate	Optional	This is dependent on Card proposal. Currently this is implemented as the CardLogicalData aggregate.
<a href="#">PassbkKeys</a>	Aggregate	Optional	Currently PassbkAcceptData.
<a href="#">NetworkTrnData</a>	Aggregate	Optional	Network Transaction Information. Identification and location of the terminal from which the message originates.
<a href="#">ServerTerminalSeqNum</a>	NC-36	Optional	Server Terminal Sequence Number. A terminal sequence number generated by the server to identify this object. This number is used in ATM and POS environments to uniquely identify transactions (with terminal name and date) for transaction management.
<a href="#">PointOfServiceData</a>	Aggregate	Optional	The Point of Service Data. This aggregate contains information about the environment in which this message originated.
<a href="#">ClientTerminalSeqNum</a>	NC-36	Optional	Client Terminal Sequence Number. A terminal sequence number generated by the client to identify this object. This number is used in ATM, POS, Branch, Call Center and Teller environments to uniquely identify

			transactions at the client (with terminal name and date). This number is often required when requesting supporting documentation related to a customer transaction.
end Elements from BaseEnvr			
begin Aggregate			
end Aggregate			

---

### Recurring Payment Model Identifier <RecurPmtId>

Recurring Payment Model Identifier

Datatype: **Identifier**

---

### Recurring Payment Model Information Aggregate <RecurPmtInfo>

Recurring Payment Model Information Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">PmtInfo</a>	Aggregate	Required	Payment Information Aggregate
<a href="#">RecurModel</a>	Aggregate	Optional	Represents a time based recurring pattern.  An Optional usage of <RecurModel> indicates that it is possible to have no <i>set pattern</i> of recurrence.
<a href="#">Nickname</a>	C-40	Optional	Nickname
<a href="#">InitialCurAmt</a>	Aggregate	Optional	Recurring Model Initial Amount
<a href="#">FinalCurAmt</a>	Aggregate	Optional	Recurring Model Final Amount
<a href="#">PmtAmtOption</a>	Open Enum	Optional	The option the customer has chosen for the pay amount  Valid values include: FixedAmt, FullBalance, InterestOnly, MinimumPayment, PercentOfBalance

			Default Value: FullBalance
begin-xor		Optional	
<a href="#">CurAmt</a>	Aggregate	Required	Currency Amount
<a href="#">BalPercent</a>	Decimal	Required	Balance Percent
end-xor			
<a href="#">RetryCount</a>	Long	Optional	Retry Count
<a href="#">RetryDays</a>	Long	Optional	Retry Days
<a href="#">CreditHeldDays</a>	Long	Optional	Credit Held Days
<a href="#">OvrAmt</a>	Aggregate	Optional	Override Amount
<a href="#">CreditReturnInd</a>	Boolean	Optional	Credit Balance Return Indicator
<a href="#">CreditRtnAcctRef</a>	Aggregate	Optional	Credit Return Account Reference
end Aggregate			

## Recurring Payment Model Request Message <RecurPmtInqRq>

The Recurring Payment Inquiry message allows a client to get a list of the current Recurring Payment Models. Clients that keep local copies of a customer's Recurring Payment Models may use this message to "refresh" their copies of the customer's Recurring Payment Models.

See the matching response message [RecurPmtInqRs](#)

### Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">DocCtrlIn</a>	Aggregate	Optional	Document Control Input
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
begin-xor		Optional Repeating	
<a href="#">RecurPmtSel</a>	Aggregate	Required	Recurring Payment Model Selection Aggregate
<a href="#">RecSelect</a>	lfxPath	Required	Record Select
end-xor			

end Aggregate

## Recurring Payment Model Response Message <RecurPmtInqRs>

Response to a Recurring Payment Model Inquiry

See the matching request message [RecurPmtInqRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">DocCtrlOut</a>	Aggregate	Optional	Document Control Output
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">RecurPmtRec</a>	Aggregate	Required Repeating	Recurring Payment Model Record Aggregate
end-block			
end Aggregate			

## Recurring Payment Model Keys Aggregate <RecurPmtKeys>

Recurring Payment Model Keys Aggregate

Extends: [BaseKeys](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseKeys			
end Elements from BaseKeys			
begin Aggregate			

<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
begin-xor		Required	
<a href="#">RecurPmtId</a>	Identifier	Required	Recurring Payment Model Identifier
end-xor			
end Aggregate			

---

### Recurring Payment Modified Indicator <RecurPmtMod>

Required to be *True* if a <PmtModRq> has subsequently modified a payment generated from a Recurring Payment Model so that it no longer matches the Recurring Payment Model. This may only be supplied for recurring payment instances.

Datatype: **Boolean**

---

### Recurring Payment Model Request Message <RecurPmtModRq>

The Modify Recurring Payment Model message allows a client to modify the current definition of a recurring or repeating payment. Whether a modification to the model affects any current pending payment instance(s) from the model depends on profile settings and the message contents.

See the matching response message [RecurPmtModRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecurPmtKeys</a>	Aggregate	Required	Recurring Payment Model Keys Aggregate
begin-block		Required Repeating	
<a href="#">RecurPmtInfo</a>	Aggregate	Required	Recurring Payment Model Information Aggregate

begin-xor		Required Repeating	
<a href="#">DelElements</a>	IfxPath	Required	An IfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to delete. It is an error if one attempts to delete Required fields.
<a href="#">UpdElements</a>	IfxPath	Required	An IfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to update. The new value of the updated element is in the accompanying xxxInfo aggregate.
<a href="#">NewElements</a>	IfxPath	Required	An IfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to add. The new value of the new elements is in the accompanying xxxInfo aggregate.
end-xor			
end-block			
end Aggregate			

## Recurring Payment Model Response Message <RecurPmtModRs>

Response to Recurring Payment Model Modification Request

See the matching request message [RecurPmtModRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">RecurPmtRec</a>	Aggregate	Required	Recurring Payment Model Record Aggregate
<a href="#">RecurPmtStatusRec</a>	Aggregate	Required	Recurring Payment Model Status Record Aggregate
end-xor			

end-block
end Aggregate

### Recurring Payment Profile <RecurPmtProf>

Used in the Pay Service Profile Information aggregate <PaySvcProfInfo>.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">Freq</a>	Open Enum	Required Repeating	Recurring Model Frequency. Usage is a list of supported frequencies.  Defined values: Daily, Weekly, BiWeekly, TwiceMonthly, Monthly, EndOfMonth, FourWeeks, BiMonthly, Quarterly, SemiAnnually, Anually
<a href="#">ModPendingType</a>	Closed Enum	Required	Client Modify Pending Type. Specifies the rules used by the server to propagate changes to recurring models to pending payments.  Valid values: Always, Never, IfRequested.
end Aggregate			

### Recurring Payment Model Record Aggregate <RecurPmtRec>

Recurring Payment Model Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">RecurPmtId</a>	Identifier	Required	Recurring Payment Model Identifier
<a href="#">RecurPmtInfo</a>	Aggregate	Required	Recurring Payment Model Information Aggregate
<a href="#">RecurPmtEnvr</a>	Aggregate	Optional	Recurring Payment Model Environment Aggregate
end Aggregate			



<a href="#">RecurPmtStatus</a>	Aggregate	Required	Recurring Payment Model Status Aggregate
end Aggregate			

---

### Recurring Payment Model Reference Aggregate <RecurPmtRef>

Recurring Payment Model Reference Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">RecurPmtKeys</a>	Aggregate	Required	Recurring Payment Model Keys Aggregate
<a href="#">RecurPmtRec</a>	Aggregate	Required	Recurring Payment Model Record Aggregate
<a href="#">RecurPmtInfo</a>	Aggregate	Required	Recurring Payment Model Information Aggregate
end-xor			
end Aggregate			

---

### Recurring Payment Model Request Message <RecurPmtRevRq>

See the matching response message [RecurPmtRevRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RevReasonCode</a>	Aggregate	Required	Reversal Reason Code
<a href="#">Desc</a>	C-80	Optional	Description

<a href="#">RecurPmtRqMsg</a>	Aggregate	Required	Recurring Payment Model Request Message Record Aggregate
end Aggregate			

---

## Recurring Payment Model Response Message <RecurPmtRevRs>

See the matching request message [RecurPmtRevRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
end Aggregate			

---

## Recurring Payment Model Request Message Record Aggregate <RecurPmtRqMsg>

Recurring Payment Model Request Message Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">RecurPmtAddRq</a>	Aggregate	Required	Recurring Payment Model Add
<a href="#">RecurPmtModRq</a>	Aggregate	Required	Recurring Payment Model Modification Request
<a href="#">RecurPmtCanRq</a>	Aggregate	Required	Recurring Payment Model Cancel Request
<a href="#">RecurPmtDelRq</a>	Aggregate	Required	
<a href="#">RecurPmtInqRq</a>	Aggregate	Required	Recurring Payment Model Inquiry

<a href="#">RecurPmtAudRq</a>	Aggregate	Required	Recurring Payment Model Audit Request
<a href="#">RecurPmtSyncRq</a>	Aggregate	Required	Recurring Payment Model Synchronization Request
<a href="#">RevRqUID</a>	UUID	Required	Reversal Request Unique ID
end-xor			
end Aggregate			

---

### Recurring Payment ModelResponse Message Record Aggregate <RecurPmtRsMsg>

Recurring Payment ModelResponse Message Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">MsgRecDt</a>	Timestamp	Optional	Audit Record Creation Date
begin-xor		Required	
<a href="#">RecurPmtAddRs</a>	Aggregate	Required	Recurring Payment Model Add Response
<a href="#">RecurPmtModRs</a>	Aggregate	Required	Recurring Payment Model Modification Response
<a href="#">RecurPmtDelRs</a>	Aggregate	Required	
<a href="#">RecurPmtCanRs</a>	Aggregate	Required	Recurring Payment Model Cancel Response
<a href="#">RecurPmtRevRs</a>	Aggregate	Required	Recurring Payment Reversal Response
<a href="#">RecurPmtInqRs</a>	Aggregate	Required	Recurring Payment Model Inquiry Response
end-xor			
end Aggregate			

---

### Recurring Payment Model Selection Aggregate <RecurPmtSel>

Recurring Payment Model Selection Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required Repeating	
<a href="#">RecurPmtKeys</a>	Aggregate	Required	Recurring Payment Model Keys Aggregate
end-xor			
end Aggregate			

---

### Recurring Payment Model Status Aggregate <RecurPmtStatus>

Recurring Payment Model Status Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RecurPmtStatusCode</a>	Open Enum	Required	Recurring Payment Model Status Code  Valid values include: Active, Cancelled, Deleted, Held, Valid
<a href="#">StatusDesc</a>	C-255	Optional	Status Description
<a href="#">EffDt</a>	DateTime	Optional	Effective Date Time
<a href="#">ApprovalIdent</a>	NC-36	Optional	Approval Identifier
<a href="#">StatusModBy</a>	Open Enum	Optional	Status Modified By  Valid values include: BPP, BPPSR, BSP, BPSR, CPP, CPPSR, CSP, CSPSR, Customer, FI, PSP
end Aggregate			

---

### Recurring Payment Model Status Code <RecurPmtStatusCode>

Recurring Payment Model Status Code

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Active	Active	N
Cancelled	Cancelled	N
Deleted	Deleted	N
Held	Payment Held	N
Valid	Valid	N

---

### Recurring Payment Model Status Record Aggregate <RecurPmtStatusRec>

Recurring Payment Model Status Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">RecurPmtId</a>	Identifier	Required	Recurring Payment Model Identifier
<a href="#">RecurPmtStatus</a>	Aggregate	Required	Recurring Payment Model Status Aggregate
end Aggregate			

---

### Recurring Payment Model Request Message <RecurPmtSyncRq>

The Recurring Payment Model Sync message allows clients to retrieve a list of changes that have occurred to a customer's Recurring Payment Models. This message may be used to enable a client that keeps local copies of a customer's Recurring Payment messages to synchronize its database against the one kept by the Pay provider. The results of this message tell a client what the customer has done using other clients since they last used this one.

See the matching response message [RecurPmtSyncRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
<a href="#">RecurPmtKeys</a>	Aggregate	Optional Repeating	Recurring Payment Model Keys Aggregate
end Aggregate			

---

**Recurring Payment Model Response Message <RecurPmtSyncRs>**

Response to Recurring Payment Model Synchronization Model request

See the matching request message [RecurPmtSyncRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">RecurPmtRsMsg</a>	Aggregate	Optional Repeating	Recurring Payment ModelResponse Message Record Aggregate
end-block			
end Aggregate			

---

**RecurRule <RecurRule>**

Defines a rule for events that recur in a specific defined pattern.

Extended By: [AccrualFrequency](#), [CapFrequency](#), [ReviewFrequency](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RecurType</a>	Closed Enum	Optional	RecurType Valid values are limited to: Daily, Monthly, Weekly, Yearly
<a href="#">RecurInterval</a>	Long	Optional	Recurrence Interval
<a href="#">RecurInstance</a>	Long	Optional	Recurrence Instance
<a href="#">DayOfWeek</a>	Closed Enum	Optional	Day Of Week Valid values are limited to: Friday, Monday, Saturday, Sunday, Thursday, Tuesday, Wednesday
<a href="#">DayOfMonth</a>	Closed Enum	Optional	Day Of Month Valid values are limited to: 1, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 2, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 3, 30, 31, 4, 5, 6, 7, 8, 9
<a href="#">Month</a>	Long	Optional	Month
<a href="#">TimeOfDay</a>	Time	Optional	Time Of Day
<a href="#">RecurStartDate</a>	Date	Optional	Recurrence Start Date
begin-xor		Optional	
<a href="#">Occurrences</a>	Long	Required	Occurrences
<a href="#">RecurEndDate</a>	Date	Required	Recurrence End Date
end-xor			
<a href="#">AdjDays</a>	Long	Optional	Adjustment Days
<a href="#">AdjDaysBasis</a>	Open Enum	Optional	Adjustment Days Basis Valid values include: DueDt, EndOfMonth, StmtDt Default Value: StmtDt
end Aggregate			

---

**Recurrence Start Date <RecurStartDate>**

Recurrence Start Date

Datatype: **Date**

---

### **RecurType <RecurType>**

Indicates pattern of recurrence.

Datatype: **Closed Enum**

### **Enumerated Values**

Value	Description	Is default
Daily	occurs on specific day(s) of every week	N
Weekly	occurs on specific days(s) of specific weeks	N
Monthly	occurs on numeric day or specific instance of day(s) of the week of specific months	N
Yearly	occurs on a specific date or specific day(s) of the week of specific months	N

---

### **Recurring Transfer Request Message <RecurXferAddRq>**

Recurring Transfer Add Message. Used to add a new recurring transfer model to a SP.

See the matching response message [RecurXferAddRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecurXferInfo</a>	Aggregate	Required	Recurring Transfer Information Aggregate
end Aggregate			

---



## Recurring Transfer Response Message <RecurXferAddRs>

Recurring Transfer Add Message. Used to add a new recurring transfer model to a SP.

See the matching request message [RecurXferAddRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">RecurXferRec</a>	Aggregate	Required	Recurring Transfer Record Aggregate
<a href="#">RecurXferStatusRec</a>	Aggregate	Required	Recurring Transfer Status Record Aggregate
end-xor			
end-block			
end Aggregate			

---

## Recurring Transfer Request Message <RecurXferAudRq>

Recurring Transfer Audit Message. Used to audit changes to a recurring transfer model.

See the matching response message [RecurXferAudRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input

<a href="#">DtRange</a>	Aggregate	Optional	Date Range
<a href="#">Method</a>	Closed Enum	Optional Repeating	Method Valid values are limited to: Add, Advise, AuthMod, Can, Del, Mod, StatusMod
<a href="#">RecurXferKeys</a>	Aggregate	Optional Repeating	Recurring Transfer Keys Aggregate
end Aggregate			

### Recurring Transfer Response Message <RecurXferAudRs>

Recurring Transfer Audit Message. Used to audit changes to a recurring transfer model.

See the matching request message [RecurXferAudRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">RecurXferRsMsg</a>	Aggregate	Optional Repeating	Recurring Transfer Response Message Record Aggregate
end-block			
end Aggregate			

### Recurring Transfer Request Message <RecurXferCanRq>

**Note:** Cancel Recurring Transfer Model always cancels pending transfers based on the model.

See the matching response message [RecurXferCanRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecurXferKeys</a>	Aggregate	Required	Recurring Transfer Keys Aggregate
end Aggregate			

---

**Recurring Transfer Response Message <RecurXferCanRs>**

Recurring Transfer Cancel Message. Used to cancel a recurring transfer model.

See the matching request message [RecurXferCanRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">RecurXferRec</a>	Aggregate	Required	Recurring Transfer Record Aggregate
<a href="#">RecurXferStatusRec</a>	Aggregate	Required	Recurring Transfer Status Record Aggregate
end-xor			
end-block			
end Aggregate			

---

**Recurring Transfer Delete Request <RecurXferDelRq>**

## Recurring Transfer Delete Request

See the matching response message [RecurXferDelRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecurXferKeys</a>	Aggregate	Required	Recurring Transfer Keys Aggregate
end Aggregate			

---

## Recurring Transfer Delete Response <RecurXferDelRs>

Recurring Transfer Delete Response

See the matching request message [RecurXferDelRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">RecurXferRec</a>	Aggregate	Required	Recurring Transfer Record Aggregate
<a href="#">RecurXferStatusRec</a>	Aggregate	Required	Recurring Transfer Status Record Aggregate
end-xor			
end-block			
end Aggregate			

## Recurring Transfer Environment Aggregate <RecurXferEnvr>

Recurring Transfer Environment Aggregate

Extends: [BaseEnvr](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseEnvr			
<a href="#">CreatedDt</a>	DateTime	Required	Created Date/Time. The date/time the object was created.
<a href="#">CreateRefIdent</a>	NC-36	Optional	An identifier used to uniquely identify the creation of this object to the system that created the object. This will usually be a link to reference information used in creating the object.
<a href="#">ClientCreateDt</a>	DateTime	Optional	The created date/time as reported by the client. This can vary from the object creation date/time due to time zone differences, communication delays, etc
<a href="#">ClientBusinessDt</a>	DateTime	Optional	The date/time that the client recorded this object for operational purposes. This date/time will often be used to manage the availability of information or funds.
<a href="#">LastUpdateDt</a>	DateTime	Optional	Last update Date/Time. The date/time the object was created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LastUpdateRqUID</a>	UUID	Optional	Last update RqUID. The RqUID from the message that resulted in the object being created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LoginName</a>	C-40	Optional	The login name (or Id) of the individual that authorized this object to be created. This is typically used when the object is created on behalf of its owner by someone who is not normally represented as a Party (i.e., an employee or agent).
<a href="#">PartyKeys</a>	Aggregate	Optional	Reference to the Party that this object is owned by or authorized by.
<a href="#">CardKeys</a>	Aggregate	Optional	This is dependent on Card proposal. Currently this is implemented as the CardLogicalData aggregate.

<a href="#">PassbkKeys</a>	Aggregate	Optional	Currently PassbkAcceptData.
<a href="#">NetworkTrnData</a>	Aggregate	Optional	Network Transaction Information. Identification and location of the terminal from which the message originates.
<a href="#">ServerTerminalSeqNum</a>	NC-36	Optional	Server Terminal Sequence Number. A terminal sequence number generated by the server to identify this object. This number is used in ATM and POS environments to uniquely identify transactions (with terminal name and date) for transaction management.
<a href="#">PointOfServiceData</a>	Aggregate	Optional	The Point of Service Data. This aggregate contains information about the environment in which this message originated.
<a href="#">ClientTerminalSeqNum</a>	NC-36	Optional	Client Terminal Sequence Number. A terminal sequence number generated by the client to identify this object. This number is used in ATM, POS, Branch, Call Center and Teller environments to uniquely identify transactions at the client (with terminal name and date). This number is often required when requesting supporting documentation related to a customer transaction.
end Elements from BaseEnvr			
begin Aggregate			
end Aggregate			

---

### Recurring Transfer Identifier <RecurXferId>

Recurring Transfer Identifier

Datatype: **Identifier**

---

### Recurring Transfer Information Aggregate <RecurXferInfo>

Recurring Transfer Information Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">XferInfo</a>	Aggregate	Required	Funds Transfer Information Aggregate
<a href="#">RecurModel</a>	Aggregate	Optional	Represents a time based recurring pattern.  An Optional usage of <RecurModel> indicates that it is possible to have no <i>set pattern</i> of recurrence.
<a href="#">Nickname</a>	C-40	Optional	Nickname
<a href="#">InitialCurAmt</a>	Aggregate	Optional	Recurring Model Initial Amount
<a href="#">FinalCurAmt</a>	Aggregate	Optional	Recurring Model Final Amount
end Aggregate			

---

### Recurring Transfer Request Message <RecurXferInqRq>

Recurring Transfer Inquiry Message. Used to request information on a recurring transfer model object (s).

See the matching response message [RecurXferInqRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">DocCtrlIn</a>	Aggregate	Optional	Document Control Input
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
begin-xor		Optional Repeating	
<a href="#">RecurXferSel</a>	Aggregate	Required	Recurring Transfer Selection Aggregate
<a href="#">RecSelect</a>	IfxPath	Required	Record Select
end-xor			
end Aggregate			

---

## Recurring Transfer Response Message <RecurXferInqRs>

Recurring Transfer Inquiry Message. Used to request information on a recurring transfer model object (s).

See the matching request message [RecurXferInqRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">DocCtrlOut</a>	Aggregate	Optional	Document Control Output
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">RecurXferRec</a>	Aggregate	Required Repeating	Recurring Transfer Record Aggregate
end-block			
end Aggregate			

---

## Recurring Transfer Keys Aggregate <RecurXferKeys>

Recurring Transfer Keys Aggregate

Extends: [BaseKeys](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseKeys			
end Elements from BaseKeys			
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
begin-xor		Required	
<a href="#">RecurXferId</a>	Identifier	Required	Recurring Transfer Identifier



end-xor
end Aggregate

## Recurring Transfer Request Message <RecurXferModRq>

Recurring Transfer Modify Message. Used to modify a recurring transfer model.

See the matching response message [RecurXferModRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecurXferKeys</a>	Aggregate	Required	Recurring Transfer Keys Aggregate
begin-block		Required Repeating	
<a href="#">RecurXferInfo</a>	Aggregate	Required	Recurring Transfer Information Aggregate
begin-xor		Required Repeating	
<a href="#">DelElements</a>	IfxPath	Required	An IfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to delete. It is an error if one attempts to delete Required fields.
<a href="#">UpdElements</a>	IfxPath	Required	An IfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to update. The new value of the updated element is in the accompanying xxxInfo aggregate.
<a href="#">NewElements</a>	IfxPath	Required	An IfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to add. The new value of the new elements is in the accompanying xxxInfo aggregate.
end-xor			
end-block			
end Aggregate			

---

## Recurring Transfer Response Message <RecurXferModRs>

Recurring Transfer Modify Message. Used to modify a recurring transfer model.

See the matching request message [RecurXferModRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">RecurXferRec</a>	Aggregate	Required	Recurring Transfer Record Aggregate
<a href="#">RecurXferStatusRec</a>	Aggregate	Required	Recurring Transfer Status Record Aggregate
end-xor			
end-block			
end Aggregate			

---

## Recurring Transfer Profile <RecurXferProf>

Recurring Transfer Profile . Contains information about a service provider's supported functions for recurring transfers.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">Freq</a>	Open Enum	Required Repeating	Recurring Model Frequency. Usage is a list of supported frequencies.  Defined values: Daily, Weekly, Biweekly, TwiceMonthly, Monthly, EndOfMonth, FourWeeks, BiMonthly, Quarterly,

			SemiAnnually, Annually
<a href="#">ModPendingType</a>	Closed Enum	Required	Client Modify Pending Type. Valid values: Always, Never, IfRequested
end Aggregate			

---

### Recurring Transfer Record Aggregate <RecurXferRec>

Recurring Transfer Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">RecurXferId</a>	Identifier	Required	Recurring Transfer Identifier
<a href="#">RecurXferInfo</a>	Aggregate	Required	Recurring Transfer Information Aggregate
<a href="#">RecurXferEnvr</a>	Aggregate	Optional	Recurring Transfer Environment Aggregate
<a href="#">RecurXferStatus</a>	Aggregate	Required	Recurring Transfer Status Aggregate
end Aggregate			

---

### Recurring Transfer Reference Aggregate <RecurXferRef>

Recurring Transfer Reference Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">RecurXferKeys</a>	Aggregate	Required	Recurring Transfer Keys Aggregate
<a href="#">RecurXferRec</a>	Aggregate	Required	Recurring Transfer Record Aggregate
<a href="#">RecurXferInfo</a>	Aggregate	Required	Recurring Transfer Information Aggregate

end-xor
end Aggregate

---

### Recurring Transfer Request Message <RecurXferRevRq>

See the matching response message [RecurXferRevRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RevReasonCode</a>	Aggregate	Required	Reversal Reason Code
<a href="#">Desc</a>	C-80	Optional	Description
<a href="#">RecurXferRqMsg</a>	Aggregate	Required	Recurring Transfer Request Message Record Aggregate
end Aggregate			

---

### Recurring Transfer Response Message <RecurXferRevRs>

See the matching request message [RecurXferRevRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			

end Aggregate

## Recurring Transfer Request Message Record Aggregate <RecurXferRqMsg>

Recurring Transfer Request Message Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">RecurXferAddRq</a>	Aggregate	Required	Recurring Transfer Add Request
<a href="#">RecurXferModRq</a>	Aggregate	Required	Recurring Transfer Modify Request
<a href="#">RecurXferCanRq</a>	Aggregate	Required	Recurring Transfer Cancel Request
<a href="#">RecurXferDelRq</a>	Aggregate	Required	
<a href="#">RecurXferInqRq</a>	Aggregate	Required	Recurring Transfer Inquiry Request
<a href="#">RecurXferAudRq</a>	Aggregate	Required	Recurring Transfer Audit Request
<a href="#">RecurXferSyncRq</a>	Aggregate	Required	Recurring Transfer Sync Request
<a href="#">RevRqUID</a>	UUID	Required	Reversal Request Unique ID
end-xor			
end Aggregate			

## Recurring Transfer Response Message Record Aggregate <RecurXferRsMsg>

Recurring Transfer Response Message Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">MsgRecDt</a>	Timestamp	Optional	Audit Record Creation Date
begin-xor		Required	
<a href="#">RecurXferAddRs</a>	Aggregate	Required	Recurring Transfer Add Response

<a href="#">RecurXferModRs</a>	Aggregate	Required	Recurring Transfer Modify Response
<a href="#">RecurXferDelRs</a>	Aggregate	Required	
<a href="#">RecurXferCanRs</a>	Aggregate	Required	Recurring Transfer Cancel Response
<a href="#">RecurXferRevRs</a>	Aggregate	Required	Recurring Transfer Reversal Response
<a href="#">RecurXferInqRs</a>	Aggregate	Required	Recurring Transfer Inquiry Response
end-xor			
end Aggregate			

---

### Recurring Transfer Selection Aggregate <RecurXferSel>

Recurring Transfer Selection Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required Repeating	
<a href="#">RecurXferKeys</a>	Aggregate	Required	Recurring Transfer Keys Aggregate
end-xor			
end Aggregate			

---

### Recurring Transfer Status Aggregate <RecurXferStatus>

Recurring Transfer Status Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RecurXferStatusCode</a>	Open Enum	Required	Recurring Transfer Status Code  Valid values include: Deleted, Valid
<a href="#">StatusDesc</a>	C-255	Optional	Status Description

<a href="#">EffDt</a>	DateTime	Optional	Effective Date Time
<a href="#">ApprovalIdent</a>	NC-36	Optional	Approval Identifier
<a href="#">StatusModBy</a>	Open Enum	Optional	Status Modified By  Valid values include: BPP, BPPSR, BSP, BSPSR, CPP, CPPSR, CSP, CSPSR, Customer, FI, PSP
end Aggregate			

---

### Recurring Transfer Status Code <RecurXferStatusCode>

Recurring Transfer Status Code

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
Valid		N
Deleted		N

---

### Recurring Transfer Status Record Aggregate <RecurXferStatusRec>

Recurring Transfer Status Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">RecurXferId</a>	Identifier	Required	Recurring Transfer Identifier
<a href="#">RecurXferStatus</a>	Aggregate	Required	Recurring Transfer Status Aggregate
end Aggregate			

---

## Recurring Transfer Request Message <RecurXferSyncRq>

Recurring Transfer Synchronization Message. Used to synchronize recurring transfer model objects between a client and server.

See the matching response message [RecurXferSyncRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
<a href="#">RecurXferKeys</a>	Aggregate	Optional Repeating	Recurring Transfer Keys Aggregate
end Aggregate			

---

## Recurring Transfer Response Message <RecurXferSyncRs>

Recurring Transfer Synchronization Message. Used to synchronize recurring transfer model objects between a client and server.

See the matching request message [RecurXferSyncRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">RecurXferRsMsg</a>	Aggregate	Optional Repeating	Recurring Transfer Response Message Record Aggregate



end-block
end Aggregate

---

### Reference Information <RefData>

The <RefData> aggregate provides information typically related to an IFX object. It is generally expected that the reference information is to be used by the message recipient to relate information within the associated IFX object with other data obtained via a different channel.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RefType</a>	Open Enum	Required	Reference Type  Valid values include: APAccountNum, ARAccountNum, BankSpecific, CountrySpecific, CustomerNum, OrgSpecific, VendorNum
begin-or		Required	
<a href="#">RefIdent</a>	NC-36	Optional	Reference Identifier
<a href="#">RefDesc</a>	C-1024	Optional	Reference Description
end-or			
end Aggregate			

---

### Reference Description <RefDesc>

Reference Description

Datatype: **C-1024**

---

### Reference Identifier <RefIdent>

The specific identifier used by a service provider to identify a transaction

or object instance.

Datatype: **NC-36**

---

**Reference Identifier Ending Value <RefIdentEnd>**

Reference Identifier Ending Value

Datatype: **NC-36**

---

**Reference Identifier Range <RefIdentRange>**

This aggregate identifies the start range and/or the end as a selection criterion used to retrieve transaction details.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RefIdentStart</a>	NC-36	Optional	Reference Identifier Starting Value
<a href="#">RefIdentEnd</a>	NC-36	Optional	Reference Identifier Ending Value
end Aggregate			

---

**Reference Identifier Starting Value <RefIdentStart>**

Reference Identifier Starting Value

Datatype: **NC-36**

---

## Reference Type <RefType>

Description of the type of Reference Id.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
APAccountNum	Accounts Payable Account Number	N
ARAccountNum	Accounts Receivable Account Number	N
VendorNum	Vendor Number	N
CustomerNum	Customer Number	N
CountrySpecific	Country Specific Reference Number. Country specific invoice reference identifier required for foreign payment settlement:  1. Invoice Reference: This is required for foreign payments routed via post office. Example of usage in Invoice Reference is KIDNO in Scandinavia or ESR in Switzerland.	N
BankSpecific	Bank Specific Reference Number.  1. Bank Reference: Bank specific identifier required for cross-border payment. Example of usage is to support additional bank identifier required for foreign payment. 2. Bank Reference: Bank specific identifier required for specific banking product.	N
OrgSpecific	Organization Specific Number. Internal number generated from the posting of document in the originating organization's system.	N

---

## Region Purge Date <RegionPurgeDt>

The date the exception report should be purged from the regional combined warning bulletin file.

Datatype: **Date**

---

## Registration Authority <RegistrationAuthority>

The Authority that issued the identifier to this organization.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
DunAndBradstreet	DunAndBradstreet	N
USA.TaxId	USA.TaxId	N
OrgSpecific	OrgSpecific	N

---

### Registration Number <RegistrationNumber>

Organization Identifier Number

Datatype: **Identifier**

---

### Regular Payment <RegPmt>

The regular amount of a recurring payment, i.e. a loan payment.

Extends: [CurAmt](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from CurAmt			
<a href="#">Amt</a>	Decimal	Optional	Amount.
<a href="#">CurCode</a>	Aggregate	Optional	Currency Code
end Elements from CurAmt			
begin Aggregate			
end Aggregate			

---

### Related Account Keys <RelAcctKeys>

Related Account Keys

Extends: [AcctKeys](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from AcctKeys			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
begin-xor		Required	
<a href="#">AcctId</a>	Identifier	Required	Account Identifier
begin-block		Optional	
begin-xor		Optional	
<a href="#">BBAN</a>	NC-30	Required	Basic Bank Account Identifier
<a href="#">IBAN</a>	NC-34	Required	International Bank Account Number
<a href="#">UPIC</a>	NC-17	Required	Universal Payment Identification Code
<a href="#">CLABE</a>	C-18	Required	CLABE
<a href="#">CardMagData</a>	Aggregate	Required	Card Magnetic Stripe Data
<a href="#">CardKeys</a>	Aggregate	Required	Card Keys Aggregate
<a href="#">CardChipData</a>	Aggregate	Required	Card Chip Data
<a href="#">AcctIdent</a>	Aggregate	Required	Account Identifier Aggregate
end-xor			
<a href="#">AcctType</a>	Aggregate	Optional	Account Type
<a href="#">CurCode</a>	Aggregate	Optional	Currency Code
<a href="#">FIIdentType</a>	Open Enum	Optional	Financial Institution Identifier Type  Valid values include: ABA, CHAPS, CHIPS, FedWire, SortCode, SWIFT
<a href="#">FIIdent</a>	NC-34	Optional	Financial Institution Identifier
<a href="#">BranchIdent</a>	NC-22	Optional	Branch Identifier
end-block			
end-xor			
end Elements from AcctKeys			
begin Aggregate			
end Aggregate			

---

**Related Account Reference <RelAcctRef>**

## Related Account Reference

Extends:[AcctRef](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from AcctRef			
begin-xor		Required	
<a href="#">AcctKeys</a>	Aggregate	Required	Account Keys Aggregate
<a href="#">AcctRec</a>	Aggregate	Required	Account Record
<a href="#">AcctInfo</a>	Aggregate	Required	Account Information Aggregate
end-xor			
end Elements from AcctRef			
begin Aggregate			
end Aggregate			

---

## Related Foreign Exchange Deal Reference <RelatedForExDealRef>

Related FX Deal Identifier. This reference is provided in a request message to facilitate relating two or more contracts together for netting, certain derivative products and offsetting/extending an FX deal.

When included in the response message this tag indicates that the server has linked two deals together (i.e. for a swap or offset).

Extends:[ForExDealRef](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from ForExDealRef			
begin-xor		Required	
<a href="#">ForExDealKeys</a>	Aggregate	Required	Foreign Exchange Deal Keys Aggregate
<a href="#">ForExDealRec</a>	Aggregate	Required	Foreign Exchange Deal Record
<a href="#">ForExDealInfo</a>	Aggregate	Required	Foreign Exchange Deal Information
end-xor			
end Elements from ForExDealRef			
begin Aggregate			

end Aggregate

---

### Relationship Manager <RelationshipMgr>

Stores information about the FI officers that have management responsibility of the Object.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RelationshipMgrIdent</a>	NC-36	Required	Relationship Manager Identifier
<a href="#">Desc</a>	C-80	Optional	Description
<a href="#">RelationshipRole</a>	C-40	Optional	Relationship Role
end Aggregate			

---

### Relationship Manager Identifier <RelationshipMgrIdent>

Identifies officer/employee of financial institution.

Datatype: **NC-36**

---

### Relationship Role <RelationshipRole>

Role / Responsibility of the officer for the party (Examples: Servicing, Originating, Officer, AlternateOfficer)

Datatype: **C-40**

---

**Relationship Established Date <RelEstablishDt>**

Relationship Established Date

Datatype: **DateTime**

---

**Relationship Established Date <RelEstablishedDt>**

Date at which Party formed a relationship with social organization.

Datatype: **Date**

---

**Related-Party Keys <RelPartyKeys>**

Related-Party Keys

Extends: [PartyKeys](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from PartyKeys			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
begin-xor		Required	
<a href="#">PartyId</a>	Identifier	Required	Party Identifier
<a href="#">LoginIdent</a>	Aggregate	Required	Login Identifier
end-xor			
end Elements from PartyKeys			
begin Aggregate			
end Aggregate			

---



## Related Party Reference <RelPartyRef>

Related Party Reference

Extends: [PartyRef](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from PartyRef			
begin-xor		Required	
<a href="#">PartyKeys</a>	Aggregate	Required	Party Keys Aggregate
<a href="#">PartyRec</a>	Aggregate	Required	Party Record Aggregate
<a href="#">PartyInfo</a>	Abstract Aggregate	Required	Party Information Aggregate <b>Valid Aggregates are:</b> OrgPartyInfo PersonPartyInfo
end-xor			
end Elements from PartyRef			
begin Aggregate			
<a href="#">RelPartyRole</a>	C-40	Optional Repeating	Releated-Party Role
<a href="#">RelEstablishDt</a>	DateTime	Optional	Relationship Established Date
<a href="#">TimeFrame</a>	Aggregate	Optional	Time Frame
end Aggregate			

---

## Releated-Party Role <RelPartyRole>

Releated-Party Role

Datatype: **C-40**

---

## Remaining <Remaining>

The number of remaining inventory that is available.

Datatype: **Long**

---

**Number of Payments Remaining <RemainingPmtCount>**

Such as in a loan or mortgage.

Datatype: **Long**

---

**Remaining Record Count <RemainRecCount>**

Total number of records matching the selection criteria that have not been sent yet.

Datatype: **Long**

---

**Remittance Address <RemitAddr>**

Used in the Biller Contact Information to give the address to where remittance should be sent. Uses the same structure as <PostAddr>.

Extends: [PostAddr](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from PostAddr			
<a href="#">AddressIdent</a>	NC-36	Optional	Address Identifier
begin-block		Optional	
<a href="#">Addr1</a>	C-64	Optional	Address Line 1.
begin-block		Optional	
<a href="#">Addr2</a>	C-64	Optional	Address Line 2. Required if <Addr3> is present.
begin-block		Optional	
	C-64		

<a href="#">Addr3</a>		Optional	Address Line 3. Required if <Addr4> is present.
begin-block		Optional	
<a href="#">Addr4</a>	C-64	Optional	Address Line 4.
end-block			
end-block			
end-block			
end-block			
<a href="#">City</a>	C-32	Optional	City.
<a href="#">CountyDistrict</a>	C-32	Optional	County District
<a href="#">StateProv</a>	C-32	Optional	State or Province.
<a href="#">PostalCode</a>	C-11	Optional	Postal Code.
<a href="#">CountryCode</a>	Aggregate	Optional	Country Code
<a href="#">AddrType</a>	Open Enum	Optional	Address Type.  Defined values: Seasonal, Primary, Secondary, Business, Home
<a href="#">TimeFrame</a>	Aggregate	Optional	Time Frame
<a href="#">UpDt</a>	Timestamp	Optional	Update Date Time
<a href="#">CensusTract</a>	C-20	Optional	Census Tract
<a href="#">CensusBlock</a>	C-20	Optional	Census Block
end Elements from PostAddr			
begin Aggregate			
end Aggregate			

---

### Remittance Request Message <RemitAddrRq>

The Remittance Add message allows a client to transmit a remittance advice to a BPP or BSP for posting.

See the matching response message [RemitAddRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			

<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RemitInfo</a>	Aggregate	Required	Remittance Information Aggregate
end Aggregate			

---

### Remittance Response Message <RemitAddRs>

The <RemitAddRs> message is used to provide an acknowledgement to a CPP-initiated <RemitAddRq>. It is also used in the Remittance Audit Response <RemitAudRs> to communicate to the client that remittances have been added by the CPP using <RemitAddRq>.

See the matching request message [RemitAddRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">RemitRec</a>	Aggregate	Required	Remittance Record Aggregate
<a href="#">RemitStatusRec</a>	Aggregate	Required	Remittance Status Record Aggregate
end-xor			
end-block			
end Aggregate			

---

### Remittance Advice Reference Identifier <RemitAdviceRefId>

Remit advice number generated for the payment. Remit advice identifier links a payment and a remittance advice. This is used to re-join the two information streams when remittance and payment travel separately.

Datatype: **NC-34**

---

### Remittance Request Message <RemitAudRq>

Remittance Audit allows a client to audit Remittance Add/Modify/Delete messages associated with the current customer. When the <RemitStatus> changes, the server must generate an Rs message to the Rq that created the pending state. The <Status> <Severity> must always be Info.

See the matching response message [RemitAudRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
<a href="#">DtRange</a>	Aggregate	Optional	Date Range
<a href="#">Method</a>	Closed Enum	Optional Repeating	Method Valid values are limited to: Add, Advise, AuthMod, Can, Del, Mod, StatusMod
<a href="#">RemitKeys</a>	Aggregate	Optional Repeating	Remittance Keys Aggregate
end Aggregate			

---

### Remittance Response Message <RemitAudRs>

Response to Remittance Audit request.

See the matching request message [RemitAudRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			

begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">RemitRsMsg</a>	Aggregate	Optional Repeating	RemittanceResponse Message Record Aggregate
end-block			
end Aggregate			

---

### Batch Information <RemitBatchData>

One or more batches may be processed within a remittance deposit.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RefData</a>	Aggregate	Optional	Reference Information Aggregate. Reference information associated with remittance information.
<a href="#">CurAmt</a>	Aggregate	Required	Currency Amount. Total amount of the remittance deposit cycle.
<a href="#">Count</a>	Long	Required	Transaction count. Indicates the number of request messages contained in the file or <PaySvcRq>.
<a href="#">RemitInfo</a>	Aggregate	Required Repeating	Remittance Record Aggregate.
end Aggregate			

---

### Remittance Delivery Responsible Party <RemitDeliveryRespParty>

Instruction specifies the responsible party to generate the remittance if the payment and the remittance are to be separated.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
CPPDeliver	Customer?s Payment Provider is responsible for generating the remittance	N
CSPDeliver	Customer?s Service Provider is responsible for generating the remittance	N
PayerDeliver	Customer (payer) is responsible for generating the remittance	N

---

### Remittance Request Message <RemitDelRq>

Used to delete a remittance object. that was set up using a Remittance Add request.

See the matching response message [RemitDelRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RemitKeys</a>	Aggregate	Required	Remittance Keys Aggregate
end Aggregate			

---

### Remittance Response Message <RemitDelRs>

Response to Remittance Delete request

See the matching request message [RemitDelRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			

begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">RemitRec</a>	Aggregate	Required	Remittance Record Aggregate
<a href="#">RemitStatusRec</a>	Aggregate	Required	Remittance Status Record Aggregate
end-xor			
end-block			
end Aggregate			

### Remittance Detail Information <RemitDetail>

Remittance detail information, i.e. information about bills/invoices that are being paid.

Note: \* CurAmt in Remittance aggregates would normally be the amount invoiced and accepted by the creditor. The obligation may be expressed in one or more currencies by the creditor. .

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">UltimateCreditorData</a>	Aggregate	Optional	Party that is ultimately receiving the payment; end beneficiary, if different than the Creditor.
<a href="#">UltimateDebtorData</a>	Aggregate	Optional	Party that is ultimately responsible for the payment, if different than the Debtor. May vary at the credit level, i.e. one debtor may be paying from their account on behalf of several parties; the ultimate debtor would be indicated for each credit.
<a href="#">CurAmt</a>	Aggregate	Optional	Payment Currency Amount. Total amount being paid on behalf of subsidiary account. This element must be present if <RemitDetail> is repeating.
<a href="#">PmtSummAmt</a>	Aggregate	Optional Repeating	Payment Summary Amount. Used to designate the identifier for the amount being paid, or to specify the allocation of the total amount being paid or a portion



			of the total amount.
<a href="#">RefData</a>	Aggregate	Optional Repeating	Reference Information
<a href="#">BillRefText</a>	NC-80	Optional	Bill Reference Text
begin-xor		Optional	
<a href="#">BillRef</a>	Aggregate	Optional	Bill Reference Aggregate
<a href="#">InvoiceData</a>	Aggregate	Optional Repeating	Provides information about invoices.
end-xor			
<a href="#">Memo</a>	C-255	Optional	Memo for Payment. From Customer to Payee.  Depending on the Payment Provider and the payment network and message used to make the payment, <Memo> may be truncated or dropped.
end Aggregate			

---

## Remittance Environment Aggregate <RemitEnvr>

Remittance Environment Aggregate

Extends: [BaseEnvr](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseEnvr			
<a href="#">CreatedDt</a>	DateTime	Required	Created Date/Time. The date/time the object was created.
<a href="#">CreateRefIdent</a>	NC-36	Optional	An identifier used to uniquely identify the creation of this object to the system that created the object. This will usually be a link to reference information used in creating the object.
<a href="#">ClientCreateDt</a>	DateTime	Optional	The created date/time as reported by the client. This can vary from the object creation date/time due to time zone differences, communication delays, etc
<a href="#">ClientBusinessDt</a>	DateTime	Optional	The date/time that the client recorded this object for operational purposes. This date/time will often be used to manage the availability of information

			or funds.
<a href="#">LastUpdateDt</a>	DateTime	Optional	Last update Date/Time. The date/time the object was created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LastUpdateRqUID</a>	UUID	Optional	Last update RqUID. The RqUID from the message that resulted in the object being created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LoginName</a>	C-40	Optional	The login name (or Id) of the individual that authorized this object to be created. This is typically used when the object is created on behalf of its owner by someone who is not normally represented as a Party (i.e., an employee or agent).
<a href="#">PartyKeys</a>	Aggregate	Optional	Reference to the Party that this object is owned by or authorized by.
<a href="#">CardKeys</a>	Aggregate	Optional	This is dependent on Card proposal. Currently this is implemented as the CardLogicalData aggregate.
<a href="#">PassbkKeys</a>	Aggregate	Optional	Currently PassbkAcceptData.
<a href="#">NetworkTrnData</a>	Aggregate	Optional	Network Transaction Information. Identification and location of the terminal from which the message originates.
<a href="#">ServerTerminalSeqNum</a>	NC-36	Optional	Server Terminal Sequence Number. A terminal sequence number generated by the server to identify this object. This number is used in ATM and POS environments to uniquely identify transactions (with terminal name and date) for transaction management.
<a href="#">PointOfServiceData</a>	Aggregate	Optional	The Point of Service Data. This aggregate contains information about the environment in which this message originated.
<a href="#">ClientTerminalSeqNum</a>	NC-36	Optional	Client Terminal Sequence Number. A terminal sequence number generated by the client to identify this object. This number is used in ATM, POS, Branch, Call Center and Teller environments to uniquely identify transactions at the client (with terminal name and date). This number is often required when requesting supporting documentation related to a customer transaction.
end Elements from BaseEnvr			
begin Aggregate			

end Aggregate

---

### Remittance Identifier <RemitId>

Remittance Identifier

Datatype: **Identifier**

---

### Remittance Information Aggregate <RemitInfo>

This aggregate contains remittance information associated with a payment. Remittance applies to the credit side of a payment; each credit occurrence can be associated with a single remittance information occurrence. Some payment information is provided within Remittance, to support the use case where Remittance is generated separately and it may be desired to communicate some particulars about how the payment was processed, such as when the creditor may not have been made aware of these details in any other way.

Note: \* CurAmt in Remittance aggregates would normally be the amount invoiced and accepted by the creditor. The obligation may be expressed in one or more currencies by the creditor.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RemitRefIdent</a>	NC-36	Optional	Remittance reference identifier. Remittance reference identifier generated for the payment, generally in the Accounts Payable system. Remit reference identifier links a payment and a remittance, and is used to re-join the two information streams when remittance and payment travel separately.
<a href="#">PmtRefIdent</a>	NC-36	Optional	Payment reference identifier. The Payee payment reference number generated by the payer associated with the payment, generally in the Accounts Payable system.
<a href="#">RemitDeliveryRespParty</a>	Open	Optional	Remittance Delivery Responsible

	Enum		Party; specifies the party to generate the remittance if the payment and the remittance are to be separated.
<a href="#">DeliveryInstruction</a>	Aggregate	Optional	Delivery Instruction
<a href="#">PmtInstruction</a>	Aggregate	Optional	Details of how the payment was executed; included in remittance in case it is delivered separately from the payment and this information needs to be communicated.
<a href="#">ChkData</a>	Aggregate	Optional	Check information.
<a href="#">ChkImageURL</a>	URL	Optional	URL location to obtain an image of the check.
<a href="#">CustPayeeRef</a>	Aggregate	Optional	Reference to a defined Cust Payee if one exists.
<a href="#">RemitDetail</a>	Aggregate	Required Repeating	Remittance detail information, i.e. information about bills/invoices that are being paid. At least one occurrence is required.
<a href="#">PmtRef</a>	Aggregate	Optional	Payment Identifier. The identifier of the payment associated with this remittance. This is included to enable the BPP to inform the CPP of payment posting against this remittance.
<a href="#">RefData</a>	Aggregate	Optional Repeating	Reference information associated with a payment information generated by the payment application.
<a href="#">CurAmt</a>	Aggregate	Optional	Currency Amount. The total amount being credited to the payee's account.
<a href="#">PmtRemitRefIdent</a>	NC-36	Optional	Payment Remittance (Credit) Reference Transaction Identifier.
<a href="#">PmtLegalRpt</a>	Aggregate	Optional	<p>Payment Legal Reporting. For cross border payments in some foreign countries, it is sometimes mandatory to provide legal reporting information to the foreign central bank. This aggregate contains the information to satisfy the legal reporting requirement for payments to foreign payees. It is the responsibility of the reporting party (payer or payee) to pass the payment legal reporting information to CPP for CPP to forward to Central Bank. This information may be pass from the payer to CPP. CPP may then pass it to the country's central bank. CPPs should not modify the information in this aggregate.</p> <p>Following are some countries in which this aggregate is used: Austria, Belgium, Germany,</p>

			Denmark, Finland, Japan, Netherlands, Norway, and Sweden.
end Aggregate			

---

### Remittance Request Message <RemitInqRq>

Used to inquire on a remittance object(s).

See the matching response message [RemitInqRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">DocCtrlIn</a>	Aggregate	Optional	Document Control Input
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
begin-xor		Optional Repeating	
<a href="#">RemitSel</a>	Aggregate	Required	Remittance Selection Aggregate
<a href="#">RecSelect</a>	IfxPath	Required	Record Select
end-xor			
end Aggregate			

---

### Remittance Response Message <RemitInqRs>

Response to Remittance Inquiry

See the matching request message [RemitInqRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			

begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">DocCtrlOut</a>	Aggregate	Optional	Document Control Output
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">RemitRec</a>	Aggregate	Required Repeating	Remittance Record Aggregate
end-block			
end Aggregate			

## Remittance Instruction <RemitInstruction>

The Remittance Instruction aggregate specifies the remittance delivery method, and remit advice codes for reconciliation process to link the payments and remittance advice.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RemitRefIdent</a>	NC-36	Optional	Remittance reference identifier. Remittance reference identifier generated for the payment, generally in the Accounts Payable system. Remit reference identifier links a payment and a remittance, and is used to re-join the two information streams when remittance and payment travel separately.
<a href="#">PmtRefIdent</a>	NC-36	Optional	Payment reference identifier. The Payee payment reference number generated by the payer associated with the payment, generally in the Accounts Payable system.
<a href="#">RemitDeliveryRespParty</a>	Open Enum	Optional	Remittance Delivery Instruction. Instruction specifies the responsible party to generate the remittance if the payment and the remittance are to be separated.  Define Value: CPPDeliver, CSPDeliver, PayerDeliver.
end Aggregate			

<a href="#">DeliveryMethod</a>	Open Enum	Optional	Remittance Delivery Method. Defined Values: Fax, Email, EDI, Post, URL
<a href="#">Contact</a>	Aggregate	Optional	Remittance contact information. In the case that contact info is needed, may be used in the case the remittance is sent separately from the payment.
end Aggregate			

---

### Remittance Keys Aggregate <RemitKeys>

Remittance Keys Aggregate

Extends: [BaseKeys](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseKeys			
end Elements from BaseKeys			
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
begin-xor		Required	
<a href="#">RemitId</a>	Identifier	Required	Remittance Identifier
end-xor			
end Aggregate			

---

### Remittance Request Message <RemitModRq>

The Remittance Modify Request allows a client to modify the current information about a Remittance that was set up using the Remittance Add request.

See the matching response message [RemitModRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RemitKeys</a>	Aggregate	Required	Remittance Keys Aggregate
begin-block		Required Repeating	
<a href="#">RemitInfo</a>	Aggregate	Required	Remittance Information Aggregate
begin-xor		Optional Repeating	
<a href="#">DelElements</a>	lfxPath	Required	An lfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to delete. It is an error if one attempts to delete Required fields.
<a href="#">UpdElements</a>	lfxPath	Required	An lfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to update. The new value of the updated element is in the accompanying xxxInfo aggregate.
<a href="#">NewElements</a>	lfxPath	Required	An lfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to add. The new value of the new elements is in the accompanying xxxInfo aggregate.
end-xor			
end-block			
end Aggregate			

## Remittance Response Message <RemitModRs>

The <RemitModRs> message is used to provide an acknowledgement to a CSP-initiated <RemitModRq>. It is also used in the Remittance Audit Response <RemitAudRs> to communicate to the client that the customer has modified remittances by using <RemitModRq>.

See the matching request message [RemitModRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	



<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">RemitRec</a>	Aggregate	Required	Remittance Record Aggregate
<a href="#">RemitStatusRec</a>	Aggregate	Required	Remittance Status Record Aggregate
end-xor			
end-block			
end Aggregate			

---

### Remittance Record Aggregate <RemitRec>

Remittance Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">RemitId</a>	Identifier	Required	Remittance Identifier
<a href="#">RemitInfo</a>	Aggregate	Required	Remittance Information Aggregate
<a href="#">RemitEnvr</a>	Aggregate	Optional	Remittance Environment Aggregate
<a href="#">RemitStatus</a>	Aggregate	Required	Remittance Status Aggregate
end Aggregate			

---

### Remittance Reference Aggregate <RemitRef>

Remittance Reference Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes

begin Aggregate			
begin-xor		Required	
<a href="#">RemitKeys</a>	Aggregate	Required	Remittance Keys Aggregate
<a href="#">RemitRec</a>	Aggregate	Required	Remittance Record Aggregate
<a href="#">RemitInfo</a>	Aggregate	Required	Remittance Information Aggregate
end-xor			
end Aggregate			

---

### Remittance reference identifier <RemitRefIdent>

Remittance reference identifier generated for the payment, generally in the Accounts Payable system.

Datatype: **NC-36**

---

### Remittance Request Message <RemitRevRq>

See the matching response message [RemitRevRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RevReasonCode</a>	Aggregate	Required	Reversal Reason Code
<a href="#">Desc</a>	C-80	Optional	Description
<a href="#">RemitRqMsg</a>	Aggregate	Required	Remittance Request Message Record Aggregate
end Aggregate			

---

## Remittance Response Message <RemitRevRs>

Response to Remittance Reversal request

See the matching request message [RemitRevRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
end Aggregate			

---

## Remittance Request Message Record Aggregate <RemitRqMsg>

Remittance Request Message Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">RemitAddRq</a>	Aggregate	Required	Remittance Add Request
<a href="#">RemitModRq</a>	Aggregate	Required	Remittance Modify Request
<a href="#">RemitDelRq</a>	Aggregate	Required	Remittance Delete Request
<a href="#">RemitInqRq</a>	Aggregate	Required	Remittance Inquiry Request
<a href="#">RemitAudRq</a>	Aggregate	Required	Remittance Audit Request
<a href="#">RemitSyncRq</a>	Aggregate	Required	Remittance Synchronization Request
<a href="#">RemitStatusModRq</a>	Aggregate	Required	Remittance Status Modify Request
<a href="#">RevRqUID</a>	UUID	Required	Reversal Request Unique ID
end-xor			
end Aggregate			

---

## RemittanceResponse Message Record Aggregate <RemitRsMsg>

RemittanceResponse Message Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">MsgRecDt</a>	Timestamp	Optional	Audit Record Creation Date
begin-xor		Required	
<a href="#">RemitAddRs</a>	Aggregate	Required	Remittance Add Response
<a href="#">RemitModRs</a>	Aggregate	Required	Remittance Modification Response
<a href="#">RemitDelRs</a>	Aggregate	Required	Remittance Delete Response
<a href="#">RemitRevRs</a>	Aggregate	Required	Remittance Reversal Response
<a href="#">RemitInqRs</a>	Aggregate	Required	Remittance Inquiry Response
<a href="#">RemitStatusModRs</a>	Aggregate	Required	Remittance Status Modification Response
end-xor			
end Aggregate			

---

## Remittance Selection Aggregate <RemitSel>

Remittance Selection Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required Repeating	
<a href="#">RemitKeys</a>	Aggregate	Required	Remittance Keys Aggregate
end-xor			
end Aggregate			

---

## Remittance Status Aggregate <RemitStatus>

Remittance Status Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RemitStatusCode</a>	Open Enum	Required	Remit Status Code <hr/> Valid values include: Deleted, DelPend, Pending, Posted, Refused, Rejected, Returned, Valid
<a href="#">StatusDesc</a>	C-255	Optional	Status Description
<a href="#">EffDt</a>	DateTime	Optional	Effective Date Time
<a href="#">StatusModBy</a>	Open Enum	Optional	Status Modified By <hr/> Valid values include: BPP, BPPSR, BSP, BPSR, CPP, CPPSR, CSP, CSPSR, Customer, FI, PSP
<a href="#">Memo</a>	C-255	Optional	Memo
end Aggregate			

---

## Remittance Status Code <RemitStatusCode>

This identifies the remittance processing status.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Pending	The BPP/biller has not yet processed the remittance.	N
Posted	The remittance information has been posted to the customer?s account at the biller.	N
Refused	The remittance has been refused by the biller. The account can be located, but due to conditions, it is being refused, e.g. a mortgage in foreclosure.	N
Rejected	The remittance has been rejected by the BPP/biller. The remittance information cannot be matched to an active account at the biller.	N
Returned	The funds transfer associated with the remittance has been returned to the CPP by the FI.	N

DelPend	A deletion request for this remittance is pending.	N
Deleted	The remittance record was deleted.	N
Valid		N

---

### Remittance Request Message <RemitStatusModRq>

Used to modify the status of a remittance object. The client must specify the remittance identifier along with the status.

See the matching response message [RemitStatusModRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RemitKeys</a>	Aggregate	Required	Remittance Keys Aggregate
<a href="#">RemitStatus</a>	Aggregate	Required	Remittance Status Aggregate
end Aggregate			

---

### Remittance Response Message <RemitStatusModRs>

Response to Remittance Status Modification request.

See the matching request message [RemitStatusModRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header

end-block			
begin-block		Optional	required if message is successful
<a href="#">RemitStatusRec</a>	Aggregate	Required	Remittance Status Record Aggregate
end-block			
end Aggregate			

---

### Remittance Status Record Aggregate <RemitStatusRec>

Remittance Status Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">RemitId</a>	Identifier	Required	Remittance Identifier
<a href="#">RemitStatus</a>	Aggregate	Required	Remittance Status Aggregate
end Aggregate			

---

### Remittance Request Message <RemitSyncRq>

A client uses the Remittance Synchronization message to retrieve a list of changes that have occurred to a client's remittance. This message will commonly be used to enable a client to synchronize with the server to get up-to-date status information about a remittance. The results of this message typically will status change of a remittance advice.

See the matching response message [RemitSyncRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input

<a href="#">RemitKeys</a>	Aggregate	Optional Repeating	Remittance Keys Aggregate
end Aggregate			

## Remittance Response Message <RemitSyncRs>

Response to Remittance Synchronization request

See the matching request message [RemitSyncRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">RemitRsMsg</a>	Aggregate	Optional Repeating	RemittanceResponse Message Record Aggregate
end-block			
end Aggregate			

## Renewal Option <RenewalOption>

Identifies the renewal option for certificate of deposit.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
AutomaticRenewal		N
NoRenewalAllowed		N



RenewAtCurrentRate		N
--------------------	--	---

---

### Rental Agency Name <RentalAgencyName>

Rental agency or vehicle rental chain name that appears on the storefront and/or customer receipt.

Datatype: **C-40**

---

### Rental Agreement <RentalAgreement>

The original vehicle rental agreement invoice number.

Datatype: **C-32**

---

### Rental Audit Adjustment Indicator <RentalAuditAdjInd>

Indicates an adjustment was made to a rental vehicle charge. The card member was notified of the adjustment (e.g., for damage, distance, gas, etc.).

Datatype: **Boolean**

---

### Rental Charge <RentalCharge>

The charges associated with a vehicle rental transaction.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
-----	------	-------	---------------------------

begin Aggregate			
<a href="#">RentalChargeType</a>	Open Enum	Required	Rental Charge Type  Valid values include: BillingAdjustment, Extra, ExtraDistance, Fuel, Insurance, Late, OneWay, Other, RatePerDistance, RegDistance, RentalRate, Tax, Towing
<a href="#">CurAmt</a>	Aggregate	Required	Currency Amount
end Aggregate			

---

### Rental Charge Type <RentalChargeType>

Rental Charge Type. Used to identify the type of rental charge.

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
RentalRate		N
RatePerDistance		N
BillingAdjustment		N
Tax		N
OneWay		N
RegDistance		N
ExtraDistance		N
Late		N
Fuel		N
Towing		N
Insurance		N
Extra		N
Other		N

---

### Rental Class <RentalClass>

The class of vehicle rented such as compact, Intermediate, Standard, Full, and Specialty.

Datatype: **C-15**

---

**Rental Program <RentalProgram>**

Identifies special circumstances, such as ?frequent renter.?

Datatype: **C-20**

---

**Rental Rate Duration <RentalRateDuration>**

Indicates if the Rental Rate is a daily, weekly, or monthly rate.

Datatype: **C-1**

---

**Renter Name <RenterName>**

The name of the individual making the vehicle rental agreement.

Datatype: **C-40**

---

**Reorder Level <ReorderLevel>**

When the Remaining becomes equal to or less than the Reorder Level a new order is generated.

Datatype: **Long**

---

**Replacement Card Number <RepCardNum>**

Predefined or user entered card number to be issued for the replacement card.

Datatype: **NC-32**

---

**Replace Card Request <ReplaceCardRequest>**

Indicates if a replacement card was requested.

Datatype: **Boolean**

---

**Replacement Date <ReplacementDt>**

Date when request for a Replacement card was placed

Datatype: **DateTime**

---

**Report By Relationship <ReportByRelationship>**

Relationship of the person reporting the incident to the cardholder.

Datatype: **C-32**

---

**Reported By Name <ReportedByName>**

Name of the person reporting the incident.

Datatype: **C-40**

---

**Reported Date Time <ReportedDtTm>**

The Date and Time on which the customer reported the incident.

Datatype: **DateTime**

---

**Report Request Date <ReportRequestDt>**

Date report was requested.

Datatype: **Date**

---

**Representment Amount <RepresentmentAmt>**

The amount of the transaction represented by the merchant

Extends: [CurAmt](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from CurAmt			
<a href="#">Amt</a>	Decimal	Optional	Amount.
<a href="#">CurCode</a>	Aggregate	Optional	Currency Code
end Elements from CurAmt			
begin Aggregate			
end Aggregate			

---

**Representation Date <RepresentationDt>**

The date on which the transaction was represented by the merchant

Datatype: **Date**

---

**Requested Foreign Exchange Rate <RequestedForExRate>**

A requested Foreign Exchange Quote Rate.

On a request this aggregate identifies specific requirements that the server must meet when generating the quote (generally only used for a derivative-type quote request).

Typically this rate will only be present if there is an agreed upon rate, or if the customer is making an FX Option or FX Future Quote request and needs to provide a strike price.

The Actual Rate provided by the FI will be present in the <ForExQuoteEnvr> aggregate of the <ForExQuoteRec>

Extends: [ExchangeRate](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from ExchangeRate			
<a href="#">ExchRate</a>	Decimal	Required	Currency Exchange Rate
<a href="#">BaseCurCode</a>	Aggregate	Optional	Base Currency Code
<a href="#">ContraCurCode</a>	Aggregate	Optional	Contra Currency Code
<a href="#">ExchConvertRule</a>	Closed Enum	Optional	Exchange Convert Rule Valid values are limited to: Direct, Indirect
<a href="#">ExchRatePrecision</a>	Long	Optional	Exchange Rate Precision
<a href="#">ExchRateInvertPrec</a>	Long	Optional	Exchange Rate Inverted Precision
<a href="#">ExchMktConvertRule</a>	Closed Enum	Optional	Market Currency Conversion Indicator Valid values are limited to: Direct, Indirect
<a href="#">ExchMktRatePrecision</a>	Long	Optional	Exchange Market Rate Precision
end Elements from ExchangeRate			
begin Aggregate			
end Aggregate			

---

**Requested Operation Mode <RequestedOperationMode>**

The requested operation mode of the terminal.

Datatype: **Closed Enum**

**Enumerated Values**

Value	Description	Is default
Open	The terminal has been requested to accept business transactions and administrative maintenance.	N
Closed	The terminal has been requested to not accept business transactions, but will continue to accept administrative maintenance.	N

---

**Reservation System <ReservationSystem>**

Indicates the computerized reservation system used to make the reservation and purchase the ticket.

Datatype: **C-4**

---

**Reset PIN Block <ResetPinBlock>**

Request for recipient to initiate a PIN unblock operation to reset the bad PIN tries counter held in a chip card.

Datatype: **Open Enum**

**Enumerated Values**

Value	Description	Is default
OfflinePINRetries	OfflinePINRetries is the unblock command which will reset the offline PIN tries on the card to zero	N
NumOfAttempts	Reset the number of offline attempts for an ICC card. This requires the InvalidPINAttempts to be set to the new value	N

	in the Rq	
InvalidPINAttempts	Reset InvalidPinAttempts to zero.	N

### ResidenceCountry <ResidenceCountry>

3-letter country code ISO 3166. The country within which the party operates/lives

Extends: [CountryCode](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from CountryCode			
<a href="#">CountryCodeSource</a>	Open Enum	Optional	Country Code Source  Valid values include: FIPS-10, ISO3166-Alpha-2, ISO3166-Alpha-3, ISO3166-Numeric, ITU-E.164, STANAG-1059  Default Value: ISO3166-Alpha-3
<a href="#">CountryCodeValue</a>	Open Enum	Required	Country Code Value
end Elements from CountryCode			
begin Aggregate			
end Aggregate			

### Resolve Action <ResolveAction>

The final resolution of the dispute that indicates if the party, the merchant, or the financial institution has responsibility for the resolution amount.

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
BelowChargebackMin	Cancelled because transaction amount below chargeback minimum allowed	N



Duplicate	Cancelled because duplicate dispute	N
FIIdent	Financial institution is responsible for all or part of the resolution amount	N
Merchant	Merchant is responsible for all or part of the resolution amount	N
Other	Cancelled for other reason	N
Party	Party is responsible for the disputed amount	N
PastDueDate	Cancelled because next action passed due date	N

---

### Resolve Amount <ResolveAmt>

The amount related to the resolution for which the party, merchant, or financial institution is responsible for. Can be a partial or full amount of dispute amount.

Extends: [CurAmt](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from CurAmt			
<a href="#">Amt</a>	Decimal	Optional	Amount.
<a href="#">CurCode</a>	Aggregate	Optional	Currency Code
end Elements from CurAmt			
begin Aggregate			
end Aggregate			

---

### Resolve Date <ResolveDt>

The date on which the dispute was resolved.

Datatype: **Date**

---

### Resolve Pending Date <ResolvePendingDt>

The date that the Pending status in <SvcAcctStatus> is expected to change to a final status, e.g., Enabled, Activated, Rejected.

Datatype: **Date**

---

#### **Resource Locator <ResourceLocator>**

Generale resource locator specification.

Datatype: **URL**

---

#### **Response Date <ResponseDt>**

Date on which offer was accepted or rejected.

Datatype: **DateTime**

---

#### **Response Letter Required <ResponseLetterReqd>**

Indicates whether a letter is to be sent to confirm the response.

Datatype: **Boolean**

---

#### **Response Method <ResponseMethod>**

Delivery Method used by Party to respond to offer.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Channel	Same channel as input (e.g. Web, PFM, VRM) if physically realizable.	Y
Courier	Delivery via courier	N
Email	Delivery via Electronic mail	N
Fax	Delivery via Fascimile	N
HomeBank	Delivery via Home Banking	N
InPerson	Delivery In Person	N
LocalPrinter	The information will be delivered to the customer via a printer attached to the IFX client device.	N
OverNight	Overnight delivery	N
Phone	Delivery via Phone	N
Post	Postal service or private service without any special handling.	N
TwoDay	2nd day delivery	N
UPS	Delivery via UPS	N
URL	Delivery to a URL	N

---

### Responsible Bank <ResponsibleBank>

Bank responsible for the relationship.

Datatype: **C-32**

---

### Responsible Branch <ResponsibleBranch>

Branch responsible for the relationship.

Datatype: **C-32**

---

### Restart Type <RestartType>

Requests that the terminal perform a restart prior to changing the

operation mode.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Restart	The terminal should perform a restart.	N

---

### Restricted Ticket Indicator <RestrictedTicketInd>

Provides the identifier noting that the ticket purchased has some restriction associated with its use.

Datatype: **Boolean**

---

### Restriction <Restriction>

Limitations set on a ticket according to the type of fare, such as nonrefundable or three-day minimum stay.

Datatype: **C-20**

---

### Retain Pin <RetainPin>

Indicates whether the PIN is to be retained when a lost/stolen card is replaced.

Datatype: **Boolean**

---

### **Retirement Plan Identification <RetirementPlanIdent>**

Retirement Plan Identification

Datatype: **NC-36**

---

### **Retry Count <RetryCount>**

The number of times to retry to extract the payment if not successful on the previous attempt.

Datatype: **Long**

---

### **Retry Days <RetryDays>**

The number of days to wait within a cycle to retry to extract the payment if not successful on the previous attempt.

Datatype: **Long**

---

### **Return City <ReturnCity>**

The city or town from where a rental vehicle was returned.

Datatype: **C-32**

---

### **Return Country <ReturnCountry>**

The Country Code of the country where a rental vehicle was returned.

Extends: [CountryCode](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from CountryCode			
<a href="#">CountryCodeSource</a>	Open Enum	Optional	Country Code Source  Valid values include: FIPS-10, ISO3166-Alpha-2, ISO3166-Alpha-3, ISO3166-Numeric, ITU-E.164, STANAG-1059  Default Value: ISO3166-Alpha-3
<a href="#">CountryCodeValue</a>	Open Enum	Required	Country Code Value
end Elements from CountryCode			
begin Aggregate			
end Aggregate			

---

**Return Date <ReturnDt>**

The date when the vehicle was returned to the rental agency.

Datatype: **Date**

---

**Return Location <ReturnLoc>**

The name of the location where the vehicle was returned. This may not be the same as the vehicle agency name if the vehicle was picked up at another location (i.e., hotel, airport)

Datatype: **C-40**

---

**Return Reason <ReturnReason>**

Defines the reason the card was returned to the issuer

Datatype: **C-20**

---

**Return Reason Date <ReturnReasonDt>**

Defines the date the card was returned to the issuer.

Datatype: **DateTime**

---

**Return Region <ReturnRegion>**

A code identifying the region where a rental vehicle was returned.

Datatype: **C-32**

---

**Return Resolve Reason <ReturnResolveReason>**

Defines how the returned card was resolved.

Datatype: **C-20**

---

**Return Resolve Reason Date <ReturnResolveReasonDt>**

Defines the date the returned card was resolved.

Datatype: **DateTime**

---

**Return State/Province <ReturnStateProv>**

The State/Province of the country where a rental vehicle was returned.

Datatype: **C-32**

---

**Return Time <ReturnTime>**

The time when the vehicle was returned to the rental agency.

Datatype: **Time**

---

**Review Frequency <ReviewFrequency>**

Frequency at which hold is reviewed.

Extends: [RecurRule](#)

Datatype: **Aggregate**

---

Tag	Type	Usage	Description/Context notes
begin Elements from RecurRule			
<a href="#">RecurType</a>	Closed Enum	Optional	RecurType Valid values are limited to: Daily, Monthly, Weekly, Yearly
<a href="#">RecurInterval</a>	Long	Optional	Recurrence Interval
<a href="#">RecurInstance</a>	Long	Optional	Recurrence Instance
<a href="#">DayOfWeek</a>	Closed Enum	Optional	Day Of Week Valid values are limited to: Friday, Monday, Saturday, Sunday, Thursday, Tuesday, Wednesday
<a href="#">DayOfMonth</a>	Closed Enum	Optional	Day Of Month Valid values are limited to: 1, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 2, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 3, 30, 31, 4, 5,



			6, 7, 8, 9
<a href="#">Month</a>	Long	Optional	Month
<a href="#">TimeOfDay</a>	Time	Optional	Time Of Day
<a href="#">RecurStartDate</a>	Date	Optional	Recurance Start Date
begin-xor		Optional	
<a href="#">Occurrences</a>	Long	Required	Occurrences
<a href="#">RecurEndDate</a>	Date	Required	Recurance End Date
end-xor			
<a href="#">AdjDays</a>	Long	Optional	Adjustment Days
<a href="#">AdjDaysBasis</a>	Open Enum	Optional	Adjustment Days Basis  Valid values include: DueDt, EndOfMonth, StmtDt  Default Value: StmtDt
end Elements from RecurRule			
begin Aggregate			
end Aggregate			

### Reversal Reason Code <RevReasonCode>

Reversal reason code. The reason why the client is requesting a reversal.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RevReasonCodeValue</a>	Open Enum	Optional	Reversal Reason Code Value  Valid values include: CustCan, DepOutOfBal, DepOutOfBalApplied, DevUnableToCompTrn, FormatError, InvalidRs, MsgAuthnError, NoChkInEnvelope, OrigAmtIncorrect, PartiallyComp, PmtOutOfBal, PmtOutOfBalApplied, RsRecdLate, SuspectMalfunc, SuspectMalfunc-NoCashDisp, SuspectMalfuncCardRetain, SuspectMalfuncCardReturn, SuspectMalfuncTrack3NotUpdated, TimeoutTakingCard-CardRetainNoCashDisp, TimeoutTakingMoneyNoCashDisp, TimeoutWaitingForRs,

			UnableToDeliverMsgToPOS, Unspecified
<a href="#">RevReasonCodeSource</a>	Open Enum	Optional	Reversal Reason Code Source
			Valid values include: 8583:1993AnnexA.11
end Aggregate			

---

### Reversal Reason Code Source <RevReasonCodeSource>

Reversal Reason Code Source

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
8583:1993AnnexA.11		N

---

### Reversal Reason Code Value <RevReasonCodeValue>

Reversal reason code. The reason why the client is requesting a reversal.

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
CustCan	Customer Cancellation.	N
Unspecified	Unspecified, No Action Taken.	N
SuspectMalfunc	Suspected Malfunction.	N
FormatError	Format Error, NoActionTaken.	N
PartiallyComp	Completed Partially.	N
OrigAmtIncorrect	Original Amount Incorrect.	N
RsRecdLate	Response Received Too Late.	N
DevUnableToCompTrn	Device Unable To Complete Transaction.	N
DepOutOfBal	Deposit Out Of Balance ? No Action	N

	Taken	
NoChkInEnvelope	No Check In Envelope.	N
PmtOutOfBal	Payment Out Of Balance.	N
DepOutOfBalApplied	Deposit Out Of Balance, Applied Contents.	N
PmtOutOfBalApplied	Payment Out Of Balance, Applied Contents.	N
UnableToDeliverMsgToPOS	Unable To Deliver Message To Point Of Service.	N
SuspectMalfuncCardRetain	Suspected Malfunction, Card Retained.	N
SuspectMalfuncCardReturn	Suspected Malfunction, Card Returned.	N
SuspectMalfuncTrack3NotUpdated	Suspected Malfunction, Track3 Not Updated.	N
SuspectMalfunc-NoCashDisp	Suspected Malfunction, No Cash Dispensed.	N
TimeOutTakingMoneyNoCashDisp	Timed Out At Taking Money, No Cash Dispensed.	N
TimeOutTakingCard-CardRetainNoCashDisp	Timed Out At Taking Card, Card Retained And No Cash Dispensed.	N
InvalidRs	Invalid Response, No Action Taken.	N
TimeoutWaitingForRs	Timeout Waiting For Response.	N
MsgAuthnError	Message Authentication Error.	N

---

**Reversal Request Unique ID <RevRqUID>**

The request identifier of the Request being reversed.

Datatype: **UUID**

---

**Risk Category <RiskCategory>**

An FI defined credit Risk category for party.

Datatype: **C-40**

---

## Roll Balance <RollBalance>

Indicates how and if the balances are to be rolled to parent accounts.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
FullStmntBal	Full Statement Balance	N
PaymentDue	Payment Due Amount	N
None	No balance is rolled	Y

---

## Room Nights <RoomNights>

The total number of nights for which a room was contracted during a lodging stay.

Datatype: **Long**

---

## Request Identifier <RqUID>

Sent by a client as a universally unique identifier for the message. Used to correlate responses with requests.

A client uses <RqUID> to uniquely identify a request message. It is a universally unique ID (UUID) that is generated according to an algorithm specified by the Open Software Foundation Distributed Computing Environment (OSF/DCE) standards to produce a 36-character hexadecimal encoding of a 128-bit number.

A Request Identifier <RqUID> is included in request messages. A server must echo the received <RqUID> in the response message it generates.

The server must store the <RqUID> for as long as the server stores the audit/sync log. The client may then correlate the asynchronous response with the request when the response is not immediate.

Datatype: **UUID**

---

**Sales Slip Reference Number <SalesSlipRefNum>**

Sales Slip Reference Number.

Datatype: **NC-23**

---

**Score Generated Date <ScoreGeneratedDt>**

Date when internal score was generated.

Datatype: **Date**

---

**Score Model <ScoreModel>**

Indicates the scoring model used to generate credit score.

Datatype: **C-40**

---

**Seasonal Order Aggregate <SeasonalOrder>**

Defines an effective time frame with seasonal order volumes and reorder levels to handle special time periods.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">EffTimeFrame</a>	Aggregate	Required	Effective Time Frame
<a href="#">OrderVolume</a>	Long	Optional	Order Volume

<a href="#">ReorderLevel</a>	Long	Optional	Reorder Level
end Aggregate			

---

### Security Encryption Identifier <SecEncryptIdent>

Identifier of Security Object on which the <SecObjValue> is encrypted.  
<SecEncryptId> is required if <SecObjValue> is encrypted.

Datatype: **NC-36**

---

### Security Encryption Key <SecEncryptKey>

Security Encryption Key

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SecObjRef</a>	Aggregate	Required	Security Object Reference Aggregate
end Aggregate			

---

### Security Encrypt Reference <SecEncryptRef>

This aggregate defines a server reference to a security object that is used to encrypt other security objects.

Extends: [SecObjRef](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from SecObjRef			
begin-xor		Required	

<a href="#">SecObjKeys</a>	Aggregate	Required	Security Object Keys Aggregate
<a href="#">SecObjRec</a>	Aggregate	Required	Security Object Record Aggregate
<a href="#">SecObjInfo</a>	Aggregate	Required	Security Object Information Aggregate
end-xor			
end Elements from SecObjRef			
begin Aggregate			
end Aggregate			

---

### Security Object Request Message <SecObjAddRq>

See the matching response message [SecObjAddRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">SecObjInfo</a>	Aggregate	Required	Security Object Information Aggregate
end Aggregate			

---

### Security Object Response Message <SecObjAddRs>

**Note:** The encryption keys located in <SecObjInfo> are not echoed in this message response in order to reduce the potential for the encryption keys to be stolen.

See the matching request message [SecObjAddRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	

<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">SecObjRec</a>	Aggregate	Required	Security Object Record Aggregate
<a href="#">SecObjStatusRec</a>	Aggregate	Required	Security Object Status Record Aggregate
end-xor			
end-block			
end Aggregate			

---

### Security Object Request Message <SecObjAdviseRq>

In addition to informing the server about a status change of a security object, the Advise method can also be used as a means of either triggering the remote key load process in an ATM or POS System or as a means of providing the server with information on a security object that was loaded into the client via an out of band method (manually loaded, injected from another system, etc.).

This method is sent from the Server to the ATM with the <SecObjInitAction> tag set to RemoteKeyLoading to request the client to initiate the Remote Key Load process or set to MutualAuthentication to request the client to initiate mutual authentication. If the ATM is in a state that would allow it to initiate the requested action, the Advise will be responded to with a status code of "0" (OK). If the device is not in a state to initiate the requested action, then the Advise will be responded to with an information status code of 3760 and will initiate the requested action as soon as the state of the device will allow. If the device does not support Remote Key Load or Mutual Authentication, then an error code of 3770 will be returned.

If a security object is loaded into the client via an out-of-band method, the client can notify the server of the security object's <SecObjId> as well as the object's characteristics via the inclusion of the <SecObjRec> aggregate.

See the matching response message [SecObjAdviseRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
	UUID		



<a href="#">RqUID</a>		Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
begin-xor		Required	
<a href="#">SecObjRec</a>	Aggregate	Required	Security Object Record Aggregate
<a href="#">SecObjStatusRec</a>	Aggregate	Required	Security Object Status Record Aggregate
end-xor			
end Aggregate			

---

### Security Object Response Message <SecObjAdviseRs>

See the matching request message [SecObjAdviseRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">SecObjRec</a>	Aggregate	Required	Security Object Record Aggregate
<a href="#">SecObjStatusRec</a>	Aggregate	Required	Security Object Status Record Aggregate
end-xor			
end-block			
end Aggregate			

---

### Security Object Request Message <SecObjDelRq>

See the matching response message [SecObjDelRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">SecObjKeys</a>	Aggregate	Required	Security Object Keys Aggregate
end Aggregate			

---

**Security Object Response Message <SecObjDelRs>**

See the matching request message [SecObjDelRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">SecObjRec</a>	Aggregate	Required	Security Object Record Aggregate
<a href="#">SecObjStatusRec</a>	Aggregate	Required	Security Object Status Record Aggregate
end-xor			
end-block			
end Aggregate			

---

**Security Object Description <SecObjDesc>**

Human readable description of the security object.

Datatype: **C-64**

## Security Object Environment Aggregate <SecObjEnvr>

This aggregate contains environment information applicable to security objects.

Extends: [BaseEnvr](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseEnvr			
<a href="#">CreatedDt</a>	DateTime	Required	Created Date/Time. The date/time the object was created.
<a href="#">CreateRefIdent</a>	NC-36	Optional	An identifier used to uniquely identify the creation of this object to the system that created the object. This will usually be a link to reference information used in creating the object.
<a href="#">ClientCreatedDt</a>	DateTime	Optional	The created date/time as reported by the client. This can vary from the object creation date/time due to time zone differences, communication delays, etc
<a href="#">ClientBusinessDt</a>	DateTime	Optional	The date/time that the client recorded this object for operational purposes. This date/time will often be used to manage the availability of information or funds.
<a href="#">LastUpdateDt</a>	DateTime	Optional	Last update Date/Time. The date/time the object was created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LastUpdateRqUID</a>	UUID	Optional	Last update RqUID. The RqUID from the message that resulted in th object being created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LoginName</a>	C-40	Optional	The login name (or Id) of the individual that authorized this object to be created. This is typically used when the object is created on behalf of its owner by someone who is not normally represented as a Party (i.e., an employee or agent).

<a href="#">PartyKeys</a>	Aggregate	Optional	Reference to the Party that this object is owned by or authorized by.
<a href="#">CardKeys</a>	Aggregate	Optional	This is dependent on Card proposal. Currently this is implemented as the CardLogicalData aggregate.
<a href="#">PassbkKeys</a>	Aggregate	Optional	Currently PassbkAcceptData.
<a href="#">NetworkTrnData</a>	Aggregate	Optional	Network Transaction Information. Identification and location of the terminal from which the message originates.
<a href="#">ServerTerminalSeqNum</a>	NC-36	Optional	Server Terminal Sequence Number. A terminal sequence number generated by the server to identify this object. This number is used in ATM and POS environments to uniquely identify transactions (with terminal name and date) for transaction management.
<a href="#">PointOfServiceData</a>	Aggregate	Optional	The Point of Service Data. This aggregate contains information about the environment in which this message originated.
<a href="#">ClientTerminalSeqNum</a>	NC-36	Optional	Client Terminal Sequence Number. A terminal sequence number generated by the client to identify this object. This number is used in ATM, POS, Branch, Call Center and Teller environments to uniquely identify transactions at the client (with terminal name and date). This number is often required when requesting supporting documentation related to a customer transaction.
end Elements from BaseEnvr			
begin Aggregate			
<a href="#">SecObjKeyChkValue</a>	HexBin-unbound	Optional	Security Object Key Check Value
end Aggregate			

---

### Security Object Identifier <SecObjId>

Security Object Identifier

Datatype: **Identifier**

## Security Object Information Aggregate <SecObjInfo>

Security Object Information Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SecObjPurpose</a>	Open Enum	Required	<p>Security Object Name</p> <hr/> <p>Valid values include: MasterMACKey, MasterMessageKey, MasterPINKey, ServerEncryptionCert, ServerEncryptionPublicKey, ServerEncryptionPublicKeySign, ServerVerificationCert, ServerVerificationPublicKey, ServerVerificationPublicKeySign, TerminalEncryptionCert, TerminalEncryptionPublicKey, TerminalEncryptionPublicKeySign, TerminalMasterKey, TerminalMasterKeySign, TerminalMfgPublicKey, TerminalMfgPublicKeySign, TerminalRandomNum, TerminalSecModuleId, TerminalSecModuleIdSign, TerminalVerificationCert, TerminalVerificationPublicKey, TerminalVerificationPublicKeySign, TR-31, WorkingMACKey, WorkingMessageKey, WorkingPINKey</p>
<a href="#">SecObjType</a>	Open Enum	Required	<p>Security Object Type</p> <hr/> <p>Valid values include: 128BitAES, 192BitAES, 1KeyDES, 256BitAES, 2KeyDES, 3KeyDES, DigitalCertificate, ModuleID, PublicKey, RandomNumber, TR-31</p>
<a href="#">SecObjUse</a>	Open Enum	Optional	<p>Security Object Purpose</p> <hr/> <p>Valid values include: DataEncryptingKey, Identification, KeyEncryptingKey, MAC, PasswordEncryptingKey, PinEncryptingKey, VISAPINVerification</p>
<a href="#">CryptType</a>	Open Enum	Required	<p>Encryption Type.</p> <hr/> <p>Valid values include: ACBC, ACFB, ACM, AECB, AOFB, CBC, CFB, ECB, None, OFB, PKCS#1, PKCS#10, PKCS#7, RSA#1, TCBC, TCBC-I, TCFB, TCFB-P, TECB, TOFB, TOFB-I, TR-31</p>
<a href="#">SecEncryptKey</a>	Aggregate	Optional	<p>Reference of Security Object on which the &lt;SecObjValue&gt; is encrypted. &lt;SecEncryptKey&gt; is required</p>

			if <SecObjValue> is encrypted.
<a href="#">SecSignKey</a>	Aggregate	Optional	Reference of Security Object on which the <SecObjValue> is signed. <SecSignKey> is required if <SecObjValue> is cryptographically signed.
<a href="#">SecObjDesc</a>	C-64	Optional	Security Object Description
<a href="#">SecObjValue</a>	HexBin-unbound	Optional	Value of key, signature, or certificate specified by SecObjPurpose. Where the SecObjType is designated TR-31 this is the key block value.
<a href="#">SecObjKeyChkValue</a>	HexBin-unbound	Optional	Security Object Key Check Value
end Aggregate			

---

### Security Object Request Message <SecObjInqRq>

See the matching response message [SecObjInqRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">DocCtrlIn</a>	Aggregate	Optional	Document Control Input
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
begin-xor		Optional Repeating	
<a href="#">SecObjSel</a>	Aggregate	Required	Security Object Selection Aggregate
<a href="#">RecSelect</a>	IfxPath	Required	Record Select
end-xor			
end Aggregate			

---

### Security Object Response Message <SecObjInqRs>

See the matching request message [SecObjInqRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">DocCtrlOut</a>	Aggregate	Optional	Document Control Output
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">SecObjRec</a>	Aggregate	Required Repeating	Security Object Record Aggregate
end-block			
end Aggregate			

---

### Security Object Key Check Value <SecObjKeyChkValue>

Key Check value for those protocols that can generate a key Check value (i.e. DEA, AES)

Datatype: **HexBin-unbound**

---

### Security Object Keys Aggregate <SecObjKeys>

Security Object Keys Aggregate

Extends: [BaseKeys](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseKeys			

end Elements from BaseKeys			
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
begin-xor		Required	
<a href="#">SecObjId</a>	Identifier	Required	Security Object Identifier
<a href="#">SecObjPurpose</a>	Open Enum	Required	Security Object Name  Valid values include: MasterMACKey, MasterMessageKey, MasterPINKey, ServerEncryptionCert, ServerEncryptionPublicKey, ServerEncryptionPublicKeySign, ServerVerificationCert, ServerVerificationPublicKey, ServerVerificationPublicKeySign, TerminalEncryptionCert, TerminalEncryptionPublicKey, TerminalEncryptionPublicKeySign, TerminalMasterKey, TerminalMasterKeySign, TerminalMfgPublicKey, TerminalMfgPublicKeySign, TerminalRandomNum, TerminalSecModuleId, TerminalSecModuleIdSign, TerminalVerificationCert, TerminalVerificationPublicKey, TerminalVerificationPublicKeySign, TR-31, WorkingMACKey, WorkingMessageKey, WorkingPINKey
end-xor			
end Aggregate			

---

### Security Object Request Message <SecObjModRq>

See the matching response message [SecObjModRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">SecObjKeys</a>	Aggregate	Required	Security Object Keys Aggregate
end Aggregate			



begin-block		Required Repeating	
<a href="#">SecObjInfo</a>	Aggregate	Required	Security Object Information Aggregate
begin-xor		Optional Repeating	
<a href="#">DelElements</a>	lfxPath	Required	An lfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to delete. It is an error if one attempts to delete Required fields.
<a href="#">UpdElements</a>	lfxPath	Required	An lfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to update. The new value of the updated element is in the accompanying xxxInfo aggregate.
<a href="#">NewElements</a>	lfxPath	Required	An lfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to add. The new value of the new elements is in the accompanying xxxInfo aggregate.
end-xor			
end-block			
end Aggregate			

## Security Object Response Message <SecObjModRs>

**Note:** The encryption keys located in <SecObjInfo> are not echoed in this message response in order to reduce the potential for the encryption keys to be stolen.

See the matching request message [SecObjModRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	

<a href="#">SecObjRec</a>	Aggregate	Required	Security Object Record Aggregate
<a href="#">SecObjStatusRec</a>	Aggregate	Required	Security Object Status Record Aggregate
end-xor			
end-block			
end Aggregate			

## Security Object Purpose <SecObjPurpose>

Identifies uniquely the purpose of the security object.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
TerminalEncryptionCert		N
TerminalVerificationCert		N
TerminalRandomNum		N
ServerEncryptionCert		N
ServerVerificationCert		N
TerminalMasterKey		N
TerminalMasterKeySign		N
MasterPINKey		N
MasterMACKey		N
MasterMessageKey		N
WorkingPINKey		N
WorkingMACKey		N
WorkingMessageKey		N
TerminalEncryptionPublicKey		N
TerminalEncryptionPublicKeySign		N
TerminalVerificationPublicKey		N
TerminalVerificationPublicKeySign		N
TerminalSecModuleId		N
TerminalSecModuleIdSign		N
ServerVerificationPublicKey		N
ServerVerificationPublicKeySign		N
ServerEncryptionPublicKey		N
ServerEncryptionPublicKeySign		N
TerminalMfgPublicKey		N
TerminalMfgPublicKeySign		N
TR-31	The purpose can be derived from the SecObjValue	N

---

## Security Object Record Aggregate <SecObjRec>

Security Object Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">SecObjId</a>	Identifier	Required	Security Object Identifier
<a href="#">SecObjInfo</a>	Aggregate	Required	Security Object Information Aggregate
<a href="#">SecObjEnvr</a>	Aggregate	Optional	Security Object Environment Aggregate
<a href="#">SecObjStatus</a>	Aggregate	Required	Security Object Status Aggregate
end Aggregate			

---

## Security Object Reference Aggregate <SecObjRef>

This aggregate defines a server reference to a security object.

Extended By: [SecEncryptRef](#), [SecSignRef](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">SecObjKeys</a>	Aggregate	Required	Security Object Keys Aggregate
<a href="#">SecObjRec</a>	Aggregate	Required	Security Object Record Aggregate
<a href="#">SecObjInfo</a>	Aggregate	Required	Security Object Information Aggregate
end-xor			
end Aggregate			

---

## Security ObjectResponse Message Record Aggregate <SecObjRsMsg>

Security ObjectResponse Message Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">MsgRecDt</a>	Timestamp	Optional	Audit Record Creation Date
begin-xor		Required	
<a href="#">SecObjAddRs</a>	Aggregate	Required	Security Object Add Response
<a href="#">SecObjModRs</a>	Aggregate	Required	Security Object Modify Response
<a href="#">SecObjDelRs</a>	Aggregate	Required	Security Object Delete Response
<a href="#">SecObjInqRs</a>	Aggregate	Required	Security Object Inquiry Response
<a href="#">SecObjAdviseRs</a>	Aggregate	Required	Security Object Advise Response
<a href="#">SecObjStatusInqRs</a>	Aggregate	Required	Security Object Status Inquiry Respose
end-xor			
end Aggregate			

---

## Security Object Selection Aggregate <SecObjSel>

Security Object Selection Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required Repeating	
<a href="#">SecObjKeys</a>	Aggregate	Required	Security Object Keys Aggregate
end-xor			
end Aggregate			

---

## Security Object Status Aggregate <SecObjStatus>

Security Object Status Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SecObjStatusCode</a>	Open Enum	Required	Security Object Status Code  Valid values include: Active, Deleted, Expired, Inactive, OutofSync, RolloverInitiated, SuspectedResults, Valid
<a href="#">StatusDesc</a>	C-255	Optional	Status Description
<a href="#">EffDt</a>	DateTime	Optional	Effective Date Time
<a href="#">StatusModBy</a>	Open Enum	Optional	Status Modified By  Valid values include: BPP, BPPSR, BSP, BPSR, CPP, CPPSR, CSP, CSPSR, Customer, FI, PSP
end Aggregate			

---

## Security Object Status Code <SecObjStatusCode>

Security Object Status Code

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Active	Object is valid and available for use	N
Inactive	Object has been superseded by another object	N
Expired	Object is no longer valid since it has expired	N
OutofSync	Object stored remotely either does not exist or properties do not match when compared to object stored locally. Situation must be addressed prior to the objects next use.	N
SuspectedResults	The server detected a security validation failure when using the security object on a received message, such as a MAC verification failure, or a sanity check in a PIN block or decrypted message data.	N
Valid		N
Deleted		N

RolloverInitiated	Object (e.g., ATM certificate) is expiring (as known/tracked by the host) in the near future, and a rollover initiation is required by the ATM/device. The host sends this status code value in a security object "advise" request (<SecObjAdviseRq>) message to the ATM/device to initiate the rollover process before the certificate expires.	N
-------------------	--	---

---

### Security Object Status Inquiry Request <SecObjStatusInqRq>

Security Object Status Inquiry Request

See the matching response message [SecObjStatusInqRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
begin-xor		Optional Repeating	
<a href="#">SecObjSel</a>	Aggregate	Required	Security Object Selection Aggregate
<a href="#">RecSelect</a>	IfxPath	Required	Record Select
end-xor			
end Aggregate			

---

### Security Object Status Inquiry Response <SecObjStatusInqRs>

Security Object Status Inquiry Response

See the matching request message [SecObjStatusInqRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			

begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">SecObjStatusRec</a>	Aggregate	Optional Repeating	Security Object Status Record Aggregate
end-block			
end Aggregate			

---

### Security Object Status Record Aggregate <SecObjStatusRec>

This aggregate combines the data necessary to communicate (serialize) the object's status.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">SecObjId</a>	Identifier	Required	Security Object Identifier
<a href="#">SecObjStatus</a>	Aggregate	Required	Security Object Status Aggregate
end Aggregate			

---

### Security Object Request Message <SecObjSyncRq>

See the matching response message [SecObjSyncRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			

<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
<a href="#">SecObjKeys</a>	Aggregate	Optional Repeating	Security Object Keys Aggregate
end Aggregate			

---

## Security Object Response Message <SecObjSyncRs>

See the matching request message [SecObjSyncRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">SecObjRsMsg</a>	Aggregate	Optional Repeating	Security ObjectResponse Message Record Aggregate
end-block			
end Aggregate			

---

## Security Object Type <SecObjType>

Security Object Type

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
-------	-------------	------------



1KeyDES	Single 56-bit key used for the Data Encryption Algorithm (DES)	N
2KeyDES	Two 56-bit keys used for Triple Data Encryption Algorithm (DES)	N
3KeyDES	Three 56-bit keys used for Triple Data Encryption Algorithm (DES)	N
128BitAES	128 Bit Cipher Key for Advanced Encryption Standard	N
192BitAES	192 Bit Cipher Key for Advanced Encryption Standard	N
256BitAES	256 Bit Cipher Key for Advanced Encryption Standard	N
DigitalCertificate	DigitalCertificate – X.509 Certificate	N
PublicKey	Public key portion of a public/private key pair used in asymmetric cryptographic protocols	N
RandomNumber	Random number used as part of the remote key exchange protocol to ensure the uniqueness of the operation	N
ModuleID	Object contains a token (serial number) used to identify sender to receiver	N
TR-31	X9 interoperable secure key exchange key block specification for symmetric algorithms	N

---

### Security Object Use <SecObjUse>

Security Object Use

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
PinEncryptingKey	Key used to encrypt a PIN	N
KeyEncryptingKey	Key used to encrypt another key	N
PasswordEncryptingKey	Key used to encrypt a password	N
DataEncryptingKey	Key used to encrypt data	N
Identification	Object used to identify one entity to another	N
MAC	Key used to calculate a Message Authentication Code	N
VISAPINVerification	Keys used for VISA PIN Verification	N

---

### Security Object Value <SecObjValue>

Actual Security Object being transported (encryption key, digital

certificate, etc.)

Datatype: **HexBin-unbound**

---

### **Secondary Name <SecondaryName>**

Secondary Name

Datatype: **C-40**

---

### **Secret <Secret>**

Customer-entered information in response to a SecretPrompt. Typical uses are mother's maiden name, tax id, etc.

Cleartext values when <CryptType> = NONE, otherwise use <CryptSecret>.

Datatype: **C-80**

---

### **Secret Format <SecretFormat>**

Regular expression describing the secret format. The definition and behavior of "Regular Expression" is per IEEE Std 1003.2-1992 (POSIX.2).

General definition may be found at  
*<http://www.ciser.cornell.edu/info/regex.html>*

Datatype: **NC-1024**

---

### **Secret Identification <SecretIdent>**

The client must return the ID sent by the server along with the secret itself

in <SecretList>.

The client must use the value of <SecretId> sent by the server in <SecretPrompt>

Datatype: **NC-36**

---

### **Secret Mask <SecretMask>**

String describing the valid values to be checked against values input by the user.

Datatype: **NC-80**

---

### **Secret Optional <SecretOptional>**

If *True*, the secret does not need to be provided in the <SecretList> sent to the server in order for the server to process the requested message. If *False* or omitted, the secret does need to be provided in the <SecretList> sent to the server in order for the server to process the requested message.

Datatype: **Boolean**

---

### **Secret Prompt <SecretPrompt>**

The <SecretPrompt> aggregate is used to provide enough information to prompt a user for secrets used for initial authentication. For example, the server may request the user's tax ID, mother's maiden name or some other secret already shared between the user and the service provider operating the server.

The <SecretPrompt> may be used by CSPs during enrollment of customers for a specific service such as Bill Presentment. For example, a customer new to a specific biller may be authenticated against existing customer records at the biller. If omitted, the biller does not require the

customer to enter any secrets for client enrollment.

Another use is to prompt for a security token or password that has been provided to the customer by some other means, possibly during an interactive identity verification session with the customer.

If omitted, the FI, SP or biller does not require the customer to enter any secrets for client enrollment or subscription.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SecretIdent</a>	NC-36	Required	The ID of this secret. The client must return the ID along with the secret itself in <SecretList>.
<a href="#">Prompt</a>	C-20	Required	Prompt. The short prompt to be displayed to the user, explaining the value to be returned in <SecretList> for this secret.
<a href="#">Memo</a>	C-255	Optional	Memo. This is a longer description of the meaning of <Prompt> above. This may be displayed to the user if the user requests more information regarding the intended meaning of <Prompt>.
<a href="#">SecretOptional</a>	Boolean	Optional	If True, the secret does not need to be provided in the <SecretList> sent to the server in order for the server to process the requested message. If False or omitted, the secret does need to be provided in the <SecretList> sent to the server in order for the server to process the requested message.
<a href="#">SecretFormat</a>	NC-1024	Optional	Secret Format.  Regular expression describing the secret format. The definition and behavior of "Regular Expression" is per IEEE Std 1003.2-1992 (POSIX.2). General definition may be found at <a href="http://www.ciser.cornell.edu/info/regex.html">http://www.ciser.cornell.edu/info/regex.html</a>
<a href="#">SecretMask</a>	NC-80	Optional	Secret Mask. Edit Mask for the user input for <Secret> in <SecretList>. EditMask, in Section 3.1.1, specifies the format for <SecretMask>.
end Aggregate			

---

**Security Signature Identifier <SecSignIdent>**

Identifier of Security Object on which the <SecObjValue> is Signed.  
 <SecSignId> is required if <SecObjValue> is cryptographically signed.

Datatype: **NC-36**

### Security Signature Key <SecSignKey>

Security Signature Key

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SecObjRef</a>	Aggregate	Required	Security Object Reference Aggregate
end Aggregate			

### Security Sign Reference <SecSignRef>

This aggregate defines a server reference to a security object that is used to sign other security objects.

Extends: [SecObjRef](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from SecObjRef			
begin-xor		Required	
<a href="#">SecObjKeys</a>	Aggregate	Required	Security Object Keys Aggregate
<a href="#">SecObjRec</a>	Aggregate	Required	Security Object Record Aggregate
<a href="#">SecObjInfo</a>	Aggregate	Required	Security Object Information Aggregate
end-xor			
end Elements from SecObjRef			
begin Aggregate			
end Aggregate			

---

## Security Token <SecToken>

The specific security token.

Multiple security tokens can be used in certain circumstances, e.g. if a password and a known secret are provided, a <SecTokenLogin> and a <SecTokenSecretAnswer> are included.

Each message or operation must contain at least one security token, unless authentication is guaranteed by the transport layer or the <SubjectRole> is Anonymous. If multiple <CredentialsRqHdr> are provided, some of them may not contain a <SecToken> if the main purpose of the particular credential is identification, rather than authentication.

Extended By: [SecTokenCard](#), [SecTokenCert](#), [SecTokenICC](#), [SecTokenIssuedIdent](#), [SecTokenKey](#), [SecTokenLogin](#), [SecTokenMagCard](#), [SecTokenObject](#), [SecTokenParty](#), [SecTokenSecretAnswer](#)

Datatype: **Abstract Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SecTokenOwner</a>	C-1024	Optional	Identifies system of record for credentials
end Aggregate			

---

## Security Token Card <SecTokenCard>

Aggregate for a card security token, with the human readable logical data

Extends: [SecToken](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from SecToken			
<a href="#">SecTokenOwner</a>	C-1024	Optional	Identifies system of record for credentials
end Elements from SecToken			
begin Aggregate			

<a href="#">CardEmbossNum</a>	NC-32	Required	Embossed Card Number
<a href="#">CardSeqNum</a>	NC-3	Optional	Card Sequence Number
<a href="#">Brand</a>	Open Enum	Optional	Card Brand  Valid values include: AmEx, CarteBancaire, Discover, JCB, MasterCard, PrivateLabel, VISA
<a href="#">CardTechnology</a>	Open Enum	Optional	Card Technology  Valid values include: ICCCard, MagStripeCard
<a href="#">ExpDt</a>	DateTime	Optional	Expiration Date
<a href="#">CardVrfyData</a>	NC-16	Optional	Card Verification Data
<a href="#">Name</a>	C-40	Optional	Name
<a href="#">CSPhoneNum</a>	Phone Number	Optional	Card (customer) service phone number
<a href="#">PINData</a>	Aggregate	Optional	PIN Data
end Aggregate			

---

### Secsecurity Token Certificate <SecTokenCert>

Aggregate for a certificate security token.

Extends: [SecToken](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from SecToken			
<a href="#">SecTokenOwner</a>	C-1024	Optional	Identifies system of record for credentials
end Elements from SecToken			
begin Aggregate			
<a href="#">Certificate</a>	Aggregate	Required	Certificate
end Aggregate			

---

### Security Token IC Card <SecTokenICC>

Aggregate for an IC Card security token.

Extends:[SecToken](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from SecToken			
<a href="#">SecTokenOwner</a>	C-1024	Optional	Identifies system of record for credentials
end Elements from SecToken			
begin Aggregate			
<a href="#">AppPan</a>	HexBin-20	Required	Application Primary Account Number
<a href="#">AppPanSeq</a>	HexBin-1	Optional	Application PAN Sequence Number
<a href="#">AppIdent</a>	HexBin-16	Optional	Application Identifier
<a href="#">PINBlock</a>	NC-32	Optional	PIN Block
end Aggregate			

---

### **SecTokenIssuedIdent <SecTokenIssuedIdent>**

Aggregate for an issued identification (e.g. passport, driver?s license etc.) security token

Extends:[SecToken](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from SecToken			
<a href="#">SecTokenOwner</a>	C-1024	Optional	Identifies system of record for credentials
end Elements from SecToken			
begin Aggregate			
<a href="#">IssuedIdent</a>	Aggregate	Required	Issued Identification
end Aggregate			

---

### **Security Token Key <SecTokenKey>**



Aggregate for a session key security token, which has been requested in a previous by setting the indicator to true.

Extends: [SecToken](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from SecToken			
<a href="#">SecTokenOwner</a>	C-1024	Optional	Identifies system of record for credentials
end Elements from SecToken			
begin Aggregate			
<a href="#">SessKey</a>	NC-64	Required	A token supplied by a server on request to use as credential in multiple message or operation requests during a client session, instead of providing the full credentials in each request.
end Aggregate			

---

### Security Token Password <SecTokenLogin>

Aggregate for a username / password security token.

Extends: [SecToken](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from SecToken			
<a href="#">SecTokenOwner</a>	C-1024	Optional	Identifies system of record for credentials
end Elements from SecToken			
begin Aggregate			
<a href="#">LoginName</a>	C-40	Required	Login Name
<a href="#">SubjectPswd</a>	Aggregate	Required	Subject Password
<a href="#">SubjectPassCode</a>	Aggregate	Optional	Subject Pass Code
end Aggregate			

---

## Security Token Magnetic Card <SecTokenMagCard>

Aggregate for a magnetic stripe card security token.

Extends: [SecToken](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from SecToken			
<a href="#">SecTokenOwner</a>	C-1024	Optional	Identifies system of record for credentials
end Elements from SecToken			
begin Aggregate			
<a href="#">CardMagData</a>	Aggregate	Required	Card Magnetic Stripe Data
<a href="#">PINBlock</a>	NC-32	Required	PIN Block
<a href="#">CryptType</a>	Open Enum	Required	Encryption Type.  Valid values include: ACBC, ACFB, ACM, AECB, AOFB, CBC, CFB, ECB, None, OFB, PKCS#1, PKCS#10, PKCS#7, RSA#1, TCBC, TCBC-I, TCFB, TCFB-P, TECB, TOFB, TOFB-I, TR-31
<a href="#">SecObid</a>	Identifier	Required	Security Object Identifier
end Aggregate			

---

## Security Token Object <SecTokenObject>

Aggregate for an object verification security token.

Extends: [SecToken](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from SecToken			
<a href="#">SecTokenOwner</a>	C-1024	Optional	Identifies system of record for credentials
end Elements from SecToken			
begin Aggregate			
begin-xor		Required	
<a href="#">CardVerifyType</a>	Open Enum	Required	Card Verify Type  Valid values include: Unverified, Verified

<a href="#">DocumentVerifyType</a>	Open Enum	Required	Document Verify Type Valid values include: Unverified, Verified
end-xor			
end Aggregate			

---

### Security Token Owner <SecTokenOwner>

Used to identify the system of record where credentials are persisted and authenticated.

Datatype: **C-1024**

---

### Security Token Party <SecTokenParty>

Aggregate for a person verification security token.

Extends: [SecToken](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from SecToken			
<a href="#">SecTokenOwner</a>	C-1024	Optional	Identifies system of record for credentials
end Elements from SecToken			
begin Aggregate			
<a href="#">IdentVerifyMethod</a>	Open Enum	Optional	Identification Verify Method Valid values include: AddressVerification, Biometrics, CardVerificationValue, Certificate, DigitizedSignature, ICCSignature, None, OfflinePIN, OnlinePIN, PersonalInfoVerification, PictureID, Signature, TelephoneNumberVerification, Unknown
<a href="#">PersonData</a>	Aggregate	Optional	Person Data
end Aggregate			

---

## Security Token Secret Answer <SecTokenSecretAnswer>

Aggregate for a secret answer token.

Extends: [SecToken](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from SecToken			
<a href="#">SecTokenOwner</a>	C-1024	Optional	Identifies system of record for credentials
end Elements from SecToken			
begin Aggregate			
<a href="#">SecretIdent</a>	NC-36	Required	Secret Identification
<a href="#">CryptType</a>	Open Enum	Required	Encryption Type.  Valid values include: ACBC, ACFB, ACM, AECB, AOFB, CBC, CFB, ECB, None, OFB, PKCS#1, PKCS#10, PKCS#7, RSA#1, TCBC, TCBC-I, TCFB, TCFB-P, TECB, TOFB, TOFB-I, TR-31
<a href="#">SecObjId</a>	Identifier	Optional Repeating	Security Object Identifier
begin-xor		Required	
<a href="#">Secret</a>	C-80	Required	Secret
<a href="#">CryptSecret</a>	Aggregate	Required	Encrypted Password
end-xor			
end Aggregate			

---

## Secured Account Keys <SecuredAcctKeys>

Identifies an account that is secured by the Account Hold.

Extends: [AcctKeys](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from AcctKeys			

<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
begin-xor		Required	
<a href="#">AcctId</a>	Identifier	Required	Account Identifier
begin-block		Optional	
begin-xor		Optional	
<a href="#">BBAN</a>	NC-30	Required	Basic Bank Account Identifier
<a href="#">IBAN</a>	NC-34	Required	International Bank Account Number
<a href="#">UPIC</a>	NC-17	Required	Universal Payment Identification Code
<a href="#">CLABE</a>	C-18	Required	CLABE
<a href="#">CardMagData</a>	Aggregate	Required	Card Magnetic Stripe Data
<a href="#">CardKeys</a>	Aggregate	Required	Card Keys Aggregate
<a href="#">CardChipData</a>	Aggregate	Required	Card Chip Data
<a href="#">AcctIdent</a>	Aggregate	Required	Account Identifier Aggregate
end-xor			
<a href="#">AcctType</a>	Aggregate	Optional	Account Type
<a href="#">CurCode</a>	Aggregate	Optional	Currency Code
<a href="#">FIIdentType</a>	Open Enum	Optional	Financial Institution Identifier Type Valid values include: ABA, CHAPS, CHIPS, FedWire, SortCode, SWIFT
<a href="#">FIIdent</a>	NC-34	Optional	Financial Institution Identifier
<a href="#">BranchIdent</a>	NC-22	Optional	Branch Identifier
end-block			
end-xor			
end Elements from AcctKeys			
begin Aggregate			
end Aggregate			

### Secured Account Reference <SecuredAcctRef>

Identifies an account that is secured by the Account Hold.

Extends: [AcctRef](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes

begin Elements from AcctRef			
begin-xor		Required	
<a href="#">AcctKeys</a>	Aggregate	Required	Account Keys Aggregate
<a href="#">AcctRec</a>	Aggregate	Required	Account Record
<a href="#">AcctInfo</a>	Aggregate	Required	Account Information Aggregate
end-xor			
end Elements from AcctRef			
begin Aggregate			
end Aggregate			

---

### Segmentation <Segmentation>

Provides portfolio segmentation data. This data may be utilized to designate the Division, Region, Portfolio, Cost Center, Corp Cost Center, General Ledger or Organization levels required to segment a portfolio.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SegmentType</a>	Open Enum	Optional	Segmentation Type  Valid values include: CorpCostCenter, CostCenter, Division, GeneralLedger, OrgLvl1, OrgLvl2, OrgLvl3, Portfolio, Region
<a href="#">SegmentValue</a>	C-40	Optional	Segmentation Value
end Aggregate			

---

### Segmentation Type <SegmentType>

The type of segmentation value.

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
Division	Division	N
Region	Region	N
Portfolio	Portfolio	N
CostCenter	Cost Center	N
CorpCostCenter	Corporate Cost Center	N
GeneralLedger	General Ledger	N
OrgLvl1	Organization Level 1	N
OrgLvl2	Organization Level 2	N
OrgLvl3	Organization Level 3	N

---

### Segmentation Value <SegmentValue>

Defines the portfolio segmentation of an account.

Datatype: **C-40**

---

### Select Date Range <SelectDtRange>

When more than one date is available for an object, this aggregate provides the ability to identify which date should be used for selection and the begin and/or end date.

Extends: [DtRange](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from DtRange			
begin-or		Required	
<a href="#">StartDt</a>	DateTime	Required	Selection Start Date.
<a href="#">EndDt</a>	DateTime	Required	Selection End Date.
end-or			
end Elements from DtRange			
begin Aggregate			
<a href="#">DateType</a>	C-80	Optional	Identifies the date to be used such as created date or expired date.

end Aggregate

---

### Select Indicator <SelectInd>

Defines if the party has selected to receive the associated alert. A value of N may be selected if the AlertUse is Optional.

Datatype: **Boolean**

---

### Selection <Selection>

Indicates a selected response.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Yes		N
No		N
Ack		N
NoAck		N
Accept		N
Decline		N
OptIn		N
OptOut		N

---

### Send to Branch End Date <SendtoBranchEndDt>

The effective end date for which a card should be mailed to the branch.

Datatype: **DateTime**



---

**Send to Branch Start Date <SendtoBranchStDt>**

The effective start date for which a card should be mailed to the branch.

Datatype: **DateTime**

---

**Sent Page Count <SentPageCount>**

Sent Page Count

Datatype: **Long**

---

**Sent Record Count <SentRecCount>**

Number of records matching the selection criteria that are included in this message.

Datatype: **Long**

---

**Sequence number <SeqNum>**

Sequence number

Datatype: **Long**

---

**Server DateTime <ServerDt>**

System time according to the server.

Datatype: **DateTime**

---

### Server Status Code <ServerStatusCode>

The value placed here is used to allow the client to display the status code to the user. This allows the user to read the code to a customer service representative for debugging purposes.

Datatype: **C-20**

---

### Server Terminal Sequence Identifier <ServerTerminalSeqNum>

A terminal sequence identifier generated by the server (CSP) in an ATM or POS environment.

Datatype: **NC-36**

---

### Service Level <ServiceLevel>

Indicates to what segment the customer belongs, and the level of service or the type of pricing that the customer should receive as a result. There is no defined value for this enumeration. An example of defined values could be: Gold, Silver, Platinum

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Gold		N
Silver		N
Platinum		N

FirstClass		N
BusinessClass		N
Coach		N

---

**Services Provided <ServicesProvided>**

Services Provided

Datatype: **C-80**

---

**Session Date <SessionDt>**

The calendar date the session was established on the server.

Datatype: **DateTime**

---

**Session Location Id <SessionLocId>**

The session location of the teller, CSR or operator. This is the branch transit for which the teller/CSR/operator will be doing transactions and under which the transactions will be posted.

The <SessionLocId> should only be included if it is different than the <PhysicalLocId>

Datatype: **NC-36**

---

**Session Location Name <SessionLocName>**

Datatype: **C-40**

---

**Posting Session Login Identifier <SessionLogin>**

Identifies the teller, CSR or operator to the server with respect to the session. This may or may not be the same as the teller, CSR or operator permanent ID on the server.

Datatype: **Identifier**

---

**Session Posting Date <SessionPostingDt>**

The posting date for all transactions initiated by the teller, CSR or operator during the session.

*Note:* This is typically entered by the teller, CSR or operator. For example, the operator might be logging in to process prior day/future day work. It may be adjusted by the server to reflect the appropriate business date.

Datatype: **Date**

---

**Session Key <SessKey>**

As an option, a client may request that the server generate and return a Session Key <SessKey> to be used for multiple requests. This is done by setting the <StartSession> element to True in the <CredentialsRqHdr> of a request. The Session Key is returned in the <CredentialsRsHdr> of the response. A Session Key may have an associated Expiration DateTime, after which it may not be used. If a client has a Session Key that has not expired, it may use a <SecTokenKey> containing this <SessKey> in subsequent requests.

This mechanism addresses several requirements:

- It allows a server to efficiently process multiple requests from the same client over a relatively short time period. A batch-oriented client may group messages into a number of batches so that the

results of the preceding batch are known when the next is submitted. The <CredentialsRqHdr> in the first batch must contain valid required authentication information. The <CredentialsRqHdr> within subsequent batches may then use a <SecTokenKey> containing the <SessKey> returned by the first <CredentialsRsHdr>, in lieu of other authentication mechanisms.

- It allows a server to efficiently process multiple requests for the same user, but not necessarily the same client, over a short period of time. For example, a PFM client may invoke a web browser to support a CSP function that is not directly supported by the PFM client. The PFM client may use the <SessKey> obtained from the <CredentialsRsHdr> to use in a <SecTokenKey> for the web browser session.
- A batch or interactive client may process multiple Services with different Service Providers; e.g., VRU sends Pay messages to a different SP than Banking. The CSP and other SPs have a shared authentication mechanism. The client may use the <SessKey> obtained from the <CredentialsRsHdr> from the CSP as part of the <SecTokenKey> to the other SPs, rather than having to either store the user password or prompt the user to enter his/her password a second time.

IFX recommends that to start a session the first document should contain a single message or operation containing the <StartSession> request.

Datatype: **NC-64**

---

### **Settle Indicator <SettleInd>**

Use by client to request the server treat the transaction as a settled. Instead of creating a <CheckAcceptAuth> message this indicator can be used to accomplish the same concept. The server should consider setting the truncated indicator if the check is settled.

Datatype: **Boolean**

---

### **Settlement Identification <SettlementIdent>**

May contain the RPS or ePay ID as applicable, depending on the Settlement Type.

Datatype: **C-20**

---

### Status Severity <Severity>

Response Status Severity Code. Valid response codes depend on context; but all responses will be one of these 3 severities.

See [Status Responses](#) for a complete discussion of Status handling.

See [Response Code List](#) for a complete list of Response Status Codes.

Datatype: **Closed Enum**

### Enumerated Values

Value	Description	Is default
Error	There was an error in the request severe enough that no response could be made. The requested transaction was not processed.	N
Warning	There was a problem with the request, but a valid response is still present. The requested transaction was processed.	N
Info	Information Only. The requested transaction was processed.	N

---

### Short Description <ShortDesc>

General-purpose text description. Meaning depends on context.

Datatype: **C-15**

---

### Standard Industry Classification <SIC>

Standard Industry Classification

Datatype: **C-4**

---

### Signature Amount Limit <SignatureAmtLimit>

Indicates the transaction amount that can be executed with the required number of signatures.

Extends: [CurAmt](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from CurAmt			
<a href="#">Amt</a>	Decimal	Optional	Amount.
<a href="#">CurCode</a>	Aggregate	Optional	Currency Code
end Elements from CurAmt			
begin Aggregate			
end Aggregate			

---

### Signature Code <SignatureCode>

Signature Code

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
SignatureCardOnFile		N
OnlineSignatureCaptured		N
SignatureCardExpired		N
Missing		N

---

### Signature Required <SignatureReqd>

The number of signatures required to execute a financial transaction and some types of maintenance on the account.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">NumSignatureReqd</a>	Long	Required	Number of Signature Required
<a href="#">SignatureAmtLimit</a>	Aggregate	Optional	Signature Amount Limit
<a href="#">SignatureTransaction</a>	Open Enum	Optional	Signature Transaction Valid values include: All, Credit, Debit, Maint, Transfer
<a href="#">SigningInstruction</a>	C-255	Optional	Signing Instruction
end Aggregate			

---

**Signature Transaction <SignatureTransaction>**

Transaction that requires number of signatures.

Datatype: **Open Enum**

**Enumerated Values**

Value	Description	Is default
Debit		N
Credit		N
Transfer		N
Maint		N
All		Y

---

**Signing Instruction <SigningInstruction>**

Used to describe signing rules.

Datatype: **C-255**



---

**Situation <Situation>**

Situation code that assists in tying together fraudulent activity.

Datatype: **C-20**

---

**Skip Next n Instances <SkipNextN>**

If a non-zero value, indicates that the next *n* transaction instances are to be skipped. Subject to server support in profile.

Datatype: **Long**

---

**Small Bank Note Denomination <SmallBankNoteDenom>**

The smallest bank note denomination that can be ordered. Example: Euros are offered in 5 Euro bills or higher (no 1 Euro bills). Used mainly when <ReceivingMethod> = Bank Notes, if there is a restriction on which denominations are available.

Datatype: **Decimal**

---

**Social Affiliate Identifier <SocialAffiliatIdent>**

Identifies a social organization to which the Party is affiliated.

Datatype: **NC-36**

---

**Social Organization Type <SocialOrgType>**

Type of Social Organization if FI categorizes (Examples: Church, Club, Association, Non Public Elected Board)

Datatype: **C-40**

---

#### **Solicit Communication Method <SolicitCommunicationMeth>**

Solicitation Communication Method. Designates approval to solicit the party using the defined communication method (examples: Mail, Email, Phone)

Datatype: **C-80**

---

#### **Source <Source>**

Source of the lost/stolen information.

Datatype: **C-32**

---

#### **Spaces Allowed <SpaceAlwd>**

If set to *True*, indicates that the password allows spaces.

Datatype: **Boolean**

---

#### **Special Handling <SpecialHandling>**

Special handling requests.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
ClientOverride	The client is overriding the server's default behavior	N

---

### Spouse's Name. <SpouseName>

Datatype: **C-40**

---

### SP Reference Identifier Correction <SPRefIdCorrect>

SP Reference Identifier Correction. Either replaces or deletes a previous message depending on the value of <CorrectAction>.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SPRefIdent</a>	NC-36	Required	Old Message Identifier. This is the <SPRefId> of the transaction that is being replaced or deleted.
<a href="#">CorrectAction</a>	Closed Enum	Required	Correction Action.
end Aggregate			

---

### Service Provider Reference Identifier <SPRefIdent>

Customer Service Provider Reference Identifier <CSPRefId> and Service Provider Reference Identifier <SPRefId> are typically optional elements that allow both the CSP and SP to return message reference numbers for a message. These identifiers provide permanent reference for the message and may be used by the customer in reporting problems to Customer Service.

The reference identifiers may be different for different methods applied to a given object. For example, the reference identifier in the <PmtAddRs> may be different from the reference identifier in a subsequent <PmtModRs> applied to the same payment. Therefore, it is not safe to assume that the reference identifiers may be used to uniquely identify a particular instance of an object (such as a payment).

Datatype: **NC-36**

---

#### **Stand In Indicator <StandInInd>**

Indicates whether the transaction was completed without the card issuer.

Datatype: **Boolean**

---

#### **Stand In Location <StandInLoc>**

The location where the authorization was approved via stand in.

Datatype: **C-80**

---

#### **Start Date <StartDt>**

Used within a date range selection in inquiries to limit the response to objects within the specified range. Also used in other contexts to indicate a Start Date.

Datatype: **DateTime**

---

#### **Start Page Number <StartPageNum>**

Beginning page of a range of pages.

Datatype: **Long**

---

**Start Section Name <StartSectName>**

Start Section Name

Datatype: **C-40**

---

**Start Session <StartSession>**

Session Key Requested Indicator. *True* indicates that the client is requesting a Session Key in the response. *False* or absent indicates that the client is not requesting a Session Key in the response.

Datatype: **Boolean**

---

**Start Time <StartTime>**

Selection Start Time.

Datatype: **Time**

---

**State or Province <StateProv>**

State or Province code.

Datatype: **C-32**

---

## Response Status <Status>

The <Status> aggregate is used in each response to indicate the status of the message. If absent, defaults to 0 (zero).

*Info* severity means that this status did not prevent the server from accepting message, service, or document. The status provided additional information related to the message, service, or document.

*Warn* severity means that this status did not prevent the server from accepting the message, service, or document; however, not all information may have been returned to the client. For example, too many records requested.

*Error* severity means that the server declined the message, service, or document.

See [Status Responses](#) for a complete discussion of Status handling.

See [Response Code List](#) for a complete list of Response Status Codes.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">StatusCode</a>	Long	Required	Response Status Code. Valid values depend on context. See <a href="#">Response Code List</a> for a complete list of Response Status Codes.
<a href="#">ServerStatusCode</a>	C-20	Optional	Server Status Code. The value placed here is used to allow the client to display the status code to the user. This allows the user to read the code to a customer service representative for debugging purposes.
<a href="#">Severity</a>	Closed Enum	Required	Severity.  Valid values: Error, Warn, Info
<a href="#">StatusDesc</a>	C-255	Optional	Status Description. Explanatory text associated with the status code. The Status Description may be default text or Service Provider specific.
<a href="#">SubjectElement</a>	Aggregate	Optional Repeating	Information about the element that corresponds to the status code. The aggregate is repeating to allow for a relationship between one or more elements such that the combination causes the status code (e.g. PartyId is not

			authorized to perform transaction on specific AcctId).
<a href="#">AdditionalStatus</a>	Aggregate	Optional Repeating	Additional statuses. The <StatusCode> above must contain the primary response code. This aggregate may appear once for each additional status that the server intends to provide. For example, if both an account number and a date are invalid, the <StatusCode> above may contain one of the two errors, and this aggregate may contain the other.
<a href="#">AsyncRsData</a>	Aggregate	Optional	Asynchronous Response Information.  This element will be deprecated in this aggregate. Use AsyncRsData in MsgRsHdr instead.
end Aggregate			

---

### Status Code <StatusCode>

Response Status Code. Valid response codes depend on context.

See [Status Responses](#) for a complete discussion of Status handling.

See [Response Code List](#) for a complete list of Response Status Codes.

Datatype: **Long**

---

### Status Description <StatusDesc>

Explanatory text associated with a status such as the response status code, the bank account status, stopped check status or other related object status.

Datatype: **C-255**

---

### Status Modified By <StatusModBy>

Indicates which entity modified the object status

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
BPP	Biller Payment Provider	N
BPPSR	Customer Service Representative at Biller Payment Provider	N
BSP	Biller Service Provider	N
BSPSR	Customer Service Representative at Biller Service Provider CPP ? Customer Payment Provider	N
CPP	Customer Payment Provider	N
CPPSR	Customer Service Representative at the Customer Payment Provider, CSP ? Customer Service Provider	N
CSP	Customer Service Provider	N
CSPSR	Customer Service Representative at the Customer Service Provider Customer ? Customer	N
Customer	Customer	N
FI	Customer's Financial Institution	N
PSP	Purchase Service Provider	N

---

### Status Reason <StatusReason>

In some cases it is desirable to record the reason an object status has been set to its current value. The StatusReason provides that capability

Datatype: **C-80**

---

### Standard Payee Environment Aggregate <StdPayeeEnvr>

Standard Payee Environment Aggregate

Extends: [BaseEnvr](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseEnvr			



<a href="#">CreatedDt</a>	DateTime	Required	Created Date/Time. The date/time the object was created.
<a href="#">CreateRefldent</a>	NC-36	Optional	An identifier used to uniquely identify the creation of this object to the system that created the object. This will usually be a link to reference information used in creating the object.
<a href="#">ClientCreateDt</a>	DateTime	Optional	The created date/time as reported by the client. This can vary from the object creation date/time due to time zone differences, communication delays, etc
<a href="#">ClientBusinessDt</a>	DateTime	Optional	The date/time that the client recorded this object for operational purposes. This date/time will often be used to manage the availability of information or funds.
<a href="#">LastUpdateDt</a>	DateTime	Optional	Last update Date/Time. The date/time the object was created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LastUpdateRqUID</a>	UUID	Optional	Last update RqUID. The RqUID from the message that resulted in th object being created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LoginName</a>	C-40	Optional	The login name (or Id) of the individual that authorized this object to be created. This is typically used when the object is created on behalf of its owner by someone who is not normally represented as a Party (i.e., an employee or agent).
<a href="#">PartyKeys</a>	Aggregate	Optional	Reference to the Party that this object is owned by or authorized by.
<a href="#">CardKeys</a>	Aggregate	Optional	This is dependent on Card proposal. Currently this is implemented as the CardLogicalData aggregate.
<a href="#">PassbkKeys</a>	Aggregate	Optional	Currently PassbkAcceptData.
<a href="#">NetworkTrnData</a>	Aggregate	Optional	Network Transaction Information. Identification and location of the terminal from which the message originates.
<a href="#">ServerTerminalSeqNum</a>	NC-36	Optional	Server Terminal Sequence Number. A terminal sequence number generated by the server to identify this object. This number is used in ATM and POS environments to uniquely identify transactions (with terminal name and date) for transaction management.

<a href="#">PointOfServiceData</a>	Aggregate	Optional	The Point of Service Data. This aggregate contains information about the environment in which this message originated.
<a href="#">ClientTerminalSeqNum</a>	NC-36	Optional	Client Terminal Sequence Number. A terminal sequence number generated by the client to identify this object. This number is used in ATM, POS, Branch, Call Center and Teller environments to uniquely identify transactions at the client (with terminal name and date). This number is often required when requesting supporting documentation related to a customer transaction.
end Elements from BaseEnvr			
begin Aggregate			
end Aggregate			

---

### Standard Payee Identifier <StdPayeeId>

Standard Payee Identifier

Datatype: **Identifier**

---

### Standard Payee Information Aggregate <StdPayeeInfo>

Standard Payee Information Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">PartyData</a>	Abstract Aggregate	Optional	<b>Valid Aggregates are:</b> Payee Name. OrgData PersonData
<a href="#">AcctMask</a>	NC-32	Optional Repeating	Account Mask. Zero or more edit masks to facilitate <BillingAcct> entry and editing.
<a href="#">DaysToPay</a>	Long	Required	Days to Pay. Minimum number of business days needed to process.

			Assigned by the Pay provider. Cannot be changed by the client.
<a href="#">BillerKeys</a>	Aggregate	Optional	Biller Keys Aggregate
end Aggregate			

---

### Standard Payee Request Message <StdPayeeInqRq>

If the client omits all search elements in the <StdPayeeInqRq>, the client is requesting a complete directory of payees. Otherwise, the client wants to filter results based on the included elements.

For each payee that matches the elements in the request, the CPP returns the complete name and address of the payee, the payee ID, and the CPP name.

This inquiry request is similar to the <BillerInqRq>, which returns billers serviced by a BSP.

**Note:** *billers known by a <BillerId> to a BSP may be well-known merchants to a CPP and therefore will have a corresponding <StdPayeeId>. In fact, an entity playing both BSP and CSP roles may use the same actual value, but implementers must never count on this.*

See the matching response message [StdPayeeInqRs](#)

### Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">DocCtrlIn</a>	Aggregate	Optional	Document Control Input
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
begin-xor		Optional Repeating	
<a href="#">StdPayeeSel</a>	Aggregate	Required	Standard Payee Selection Aggregate
<a href="#">RecSelect</a>	IfxPath	Required	Record Select
end-xor			
end Aggregate			

---

## Standard Payee Response Message <StdPayeeInqRs>

Standard Payee Inquiry , allows a client to inquire about payees as known by the CPP.

See the matching request message [StdPayeeInqRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">DocCtrlOut</a>	Aggregate	Optional	Document Control Output
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">StdPayeeRec</a>	Aggregate	Required Repeating	Standard Payee Record Aggregate
end-block			
end Aggregate			

---

## Standard Payee Keys Aggregate <StdPayeeKeys>

Standard Payee Keys Aggregate

Extends: [BaseKeys](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseKeys			
end Elements from BaseKeys			
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier

begin-xor		Required	
<a href="#">StdPayeeId</a>	Identifier	Required	Standard Payee Identifier
end-xor			
end Aggregate			

---

### Standard Payee Record Aggregate <StdPayeeRec>

Standard Payee Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">StdPayeeId</a>	Identifier	Required	Standard Payee Identifier
<a href="#">StdPayeeInfo</a>	Aggregate	Required	Standard Payee Information Aggregate
<a href="#">StdPayeeEnvr</a>	Aggregate	Optional	Standard Payee Environment Aggregate
<a href="#">StdPayeeStatus</a>	Aggregate	Required	Standard Payee Status Aggregate
end Aggregate			

---

### Standard Payee Reference Aggregate <StdPayeeRef>

Standard Payee Reference Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">StdPayeeKeys</a>	Aggregate	Required	Standard Payee Keys Aggregate
<a href="#">StdPayeeRec</a>	Aggregate	Required	Standard Payee Record Aggregate
<a href="#">StdPayeeInfo</a>	Aggregate	Required	Standard Payee Information Aggregate
end-xor			

end Aggregate

---

### Standard Payee Request Message <StdPayeeRevRq>

See the matching response message [StdPayeeRevRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RevReasonCode</a>	Aggregate	Required	Reversal Reason Code
<a href="#">Desc</a>	C-80	Optional	Description
<a href="#">StdPayeeRqMsg</a>	Aggregate	Required	Standard Payee Request Message Record Aggregate
end Aggregate			

---

### Standard Payee Response Message <StdPayeeRevRs>

See the matching request message [StdPayeeRevRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
end Aggregate			

---

**Standard Payee Request Message Record Aggregate**  
**<StdPayeeRqMsg>**

Standard Payee Request Message Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">StdPayeeInqRq</a>	Aggregate	Required	Standard Payee Inquiry
<a href="#">RevRqUID</a>	UUID	Required	Reversal Request Unique ID
end-xor			
end Aggregate			

---

**Standard Payee Selection Aggregate <StdPayeeSel>**

Standard Payee Selection Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required Repeating	
<a href="#">StdPayeeKeys</a>	Aggregate	Required	Standard Payee Keys Aggregate
end-xor			
end Aggregate			

---

**Standard Payee Status Aggregate <StdPayeeStatus>**

Standard Payee Status Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">StdPayeeStatusCode</a>	Open Enum	Required	Standard Payee Status Code  Valid values include: Deleted, Valid
<a href="#">StatusDesc</a>	C-255	Optional	Status Description
<a href="#">EffDt</a>	DateTime	Optional	Effective Date Time
<a href="#">ApprovalIdent</a>	NC-36	Optional	Approval Identifier
<a href="#">StatusModBy</a>	Open Enum	Optional	Status Modified By  Valid values include: BPP, BPPSR, BSP, BPSR, CPP, CPPSR, CSP, CSPSR, Customer, FI, PSP
end Aggregate			

---

### Standard Payee Status Code <StdPayeeStatusCode>

Standard Payee Status Code

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
Valid		N
Deleted		N

---

### Standard Payee Status Record Aggregate <StdPayeeStatusRec>

Standard Payee Status Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes



begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">StdPayeeId</a>	Identifier	Required	Standard Payee Identifier
<a href="#">StdPayeeStatus</a>	Aggregate	Required	Standard Payee Status Aggregate
end Aggregate			

---

### Statement Date <StmtDt>

Statement Date

Datatype: **Date**

---

### Statement Group <StmtGroup>

Statement Group

Datatype: **C-25**

---

### Statement Image. <StmImg>

Statement Image

Extends: [Binary](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from Binary			
<a href="#">ContentType</a>	Open Enum	Optional	Specified in IETF RFC 2046.
<a href="#">BinLength</a>	Long	Required	Identifies the size of the binary data in number of bytes.
<a href="#">BinData</a>	Raw Binary Data	Required	Binary data.

end Elements from Binary
begin Aggregate
end Aggregate

---

### Statement Running Balance <StmtRunningBal>

Indicates the "running" total/balance, to be displayed on statements, as a result of this current transaction. This balance is calculated by adding or subtracting (depending on the transaction type) the current transaction amount to the account balance just before the transaction.

Extends: [CurAmt](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from CurAmt			
<a href="#">Amt</a>	Decimal	Optional	Amount.
<a href="#">CurCode</a>	Aggregate	Optional	Currency Code
end Elements from CurAmt			
begin Aggregate			
end Aggregate			

---

### Statement Summary Type <StmtSummType>

Used to identify the type of summary data.

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
Deposits	The placement of money (funds) in a bank or financial account	N
OthCredits	Other Credits. Total currency amount of all other credits (not including deposits) posted in the closing period.	N
Checks	A written order to a bank to pay the amount specified from	N

	funds on deposit.	
OthDebits	Other Debits. Total currency amount of all other debits (not including disbursements) posted in the closing period.	N
Fees	A fixed or variable sum charged for a service or transaction	N
IntCharged	Interest Charged. A fixed or variable amount charged for borrowing money; usually a percentage of the amount borrowed.	N
IntEarned	Interest Earned. A fixed or variable amount earned for funds on deposit; usually a percentage of the amount deposited.	N
ATM	Automated Teller Machine. Total currency amount of ATM transactions (either debits or credits).	N
Electronic	Total currency amount of transactions noted as disbursed or received via an electronic transmission, i.e., ACH or wire transactions.	N
CreditsOnly	Credits Only. Total number of credit transactions posted in the closing period.	N
DebitsOnly	Debits Only. Total number of debit transactions posted in the closing period.	N
BAI:xxxOrTMA:xxx	BAI:xxx or TMA:xxx (Reference BAI Code List or TMA Code List as maintained by Association of Financial Professionals (AFP) found at: <a href="http://www.bai.org/operations/bai_codes.html">http://www.bai.org/operations/bai_codes.html</a> ) Example: BAI:010 (Beginning Ledger Balance), BAI:140 (ACH Credits), etc.	N

---

### Statement Time Frame <StmntTimeFrame>

Statement Time Frame

Extends: [TimeFrame](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from TimeFrame			
<a href="#">StartDt</a>	DateTime	Optional	Start Date
begin-xor		Optional	
<a href="#">EndDt</a>	DateTime	Required	End Date
<a href="#">Duration</a>	Aggregate	Required	Duration
end-xor			
<a href="#">AllDayEvent</a>	Boolean	Optional	All Day Event
<a href="#">RecurRule</a>	Aggregate	Optional Repeating	Defines a rule for events that recur in a specific defined pattern.
	Aggregate		

<a href="#">RecurException</a>	Optional Repeating	Indicates an exception to the recurrence rule.
end Elements from TimeFrame		
begin Aggregate		
end Aggregate		

---

### Statement Type <StmtType>

Some server implementations will also need additional information of the type of statement expected. For instance, there are "Full statements" (Legal) and "Mini Statements" (Partial), and the use of those varies strongly with regard to their format, legal character and/or data source.

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
Legal	A statement that contains complete information for the statement period. This type of statement is commonly referred to as a ?Full? statement.	N
Partial	A statement that contains only limited information or a limited number of transactions. This type of statement is commonly referred to as a ?Mini? statement.	N

---

### Stop Check Request Message <StopChkAddRq>

Add a Stop Check . Allows client to stop a check or a range of checks.

See the matching response message [StopChkAddRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier

<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">StopChkInfo</a>	Aggregate	Required	Stop Check Information Aggregate
end Aggregate			

---

### Stop Check Response Message <StopChkAddRs>

Add a Stop Check . Allows client to stop a check or a range of checks.

See the matching request message [StopChkAddRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">StopChkRec</a>	Aggregate	Required	Stop Check Record Aggregate
<a href="#">StopChkStatusRec</a>	Aggregate	Required	Stop Check Status Record Aggregate
end-xor			
end-block			
end Aggregate			

---

### Stop Check Request Message <StopChkAdviseRq>

Stop Check Advise Message.

See the matching response message [StopChkAdviseRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
-----	------	-------	---------------------------

begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
begin-xor		Required	
<a href="#">StopChkRec</a>	Aggregate	Required	Stop Check Record Aggregate
<a href="#">StopChkStatusRec</a>	Aggregate	Required	Stop Check Status Record Aggregate
end-xor			
end Aggregate			

---

### Stop Check Response Message <StopChkAdviseRs>

Stop Check Advise Message.

See the matching request message [StopChkAdviseRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">StopChkRec</a>	Aggregate	Required	Stop Check Record Aggregate
<a href="#">StopChkStatusRec</a>	Aggregate	Required	Stop Check Status Record Aggregate
end-xor			
end-block			
end Aggregate			

---

### Stop Check Request Message <StopChkAudRq>

Check Stop Audit Request Message

Allows client to play back Stopped Check transactions associated with the current customer since some past point in time.

See the matching response message [StopChkAudRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
<a href="#">DtRange</a>	Aggregate	Optional	Date Range
<a href="#">Method</a>	Closed Enum	Optional Repeating	Method Valid values are limited to: Add, Advise, AuthMod, Can, Del, Mod, StatusMod
<a href="#">StopChkKeys</a>	Aggregate	Optional Repeating	Stop Check Keys Aggregate
end Aggregate			

### Stop Check Response Message <StopChkAudRs>

Check Stop Audit Request Message

Allows client to play back Stopped Check transactions associated with the current customer since some past point in time.

See the matching request message [StopChkAudRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output

<a href="#">StopChkRsMsg</a>	Aggregate	Optional Repeating	Stop CheckResponse Message Record Aggregate
end-block			
end Aggregate			

---

### Stop Check Request Message <StopChkCanRq>

Stop Check Cancel Message

See the matching response message [StopChkCanRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">StopChkKeys</a>	Aggregate	Required	Stop Check Keys Aggregate
end Aggregate			

---

### Stop Check Response Message <StopChkCanRs>

Stop Check Cancel Message

See the matching request message [StopChkCanRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful



begin-xor		Required	
<a href="#">StopChkRec</a>	Aggregate	Required	Stop Check Record Aggregate
<a href="#">StopChkStatusRec</a>	Aggregate	Required	Stop Check Status Record Aggregate
end-xor			
end-block			
end Aggregate			

## Stop Check Environment Aggregate <StopChkEnvr>

Stop Check Environment Aggregate

Extends: [BaseEnvr](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseEnvr			
<a href="#">CreatedDt</a>	DateTime	Required	Created Date/Time. The date/time the object was created.
<a href="#">CreateRefIdent</a>	NC-36	Optional	An identifier used to uniquely identify the creation of this object to the system that created the object. This will usually be a link to reference information used in creating the object.
<a href="#">ClientCreateDt</a>	DateTime	Optional	The created date/time as reported by the client. This can vary from the object creation date/time due to time zone differences, communication delays, etc
<a href="#">ClientBusinessDt</a>	DateTime	Optional	The date/time that the client recorded this object for operational purposes. This date/time will often be used to manage the availability of information or funds.
<a href="#">LastUpdateDt</a>	DateTime	Optional	Last update Date/Time. The date/time the object was created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LastUpdateRqUID</a>	UUID	Optional	Last update RqUID. The RqUID from the message that resulted in th object being created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).

<a href="#">LoginName</a>	C-40	Optional	The login name (or Id) of the individual that authorized this object to be created. This is typically used when the object is created on behalf of its owner by someone who is not normally represented as a Party (i.e., an employee or agent).
<a href="#">PartyKeys</a>	Aggregate	Optional	Reference to the Party that this object is owned by or authorized by.
<a href="#">CardKeys</a>	Aggregate	Optional	This is dependent on Card proposal. Currently this is implemented as the CardLogicalData aggregate.
<a href="#">PassbkKeys</a>	Aggregate	Optional	Currently PassbkAcceptData.
<a href="#">NetworkTrnData</a>	Aggregate	Optional	Network Transaction Information. Identification and location of the terminal from which the message originates.
<a href="#">ServerTerminalSeqNum</a>	NC-36	Optional	Server Terminal Sequence Number. A terminal sequence number generated by the server to identify this object. This number is used in ATM and POS environments to uniquely identify transactions (with terminal name and date) for transaction management.
<a href="#">PointOfServiceData</a>	Aggregate	Optional	The Point of Service Data. This aggregate contains information about the environment in which this message originated.
<a href="#">ClientTerminalSeqNum</a>	NC-36	Optional	Client Terminal Sequence Number. A terminal sequence number generated by the client to identify this object. This number is used in ATM, POS, Branch, Call Center and Teller environments to uniquely identify transactions at the client (with terminal name and date). This number is often required when requesting supporting documentation related to a customer transaction.
end Elements from BaseEnvr			
begin Aggregate			
end Aggregate			

---

### Stop Check Identifier <StopChkId>

Stop Check Identifier

Datatype: **Identifier**

---

## Stop Check Information Aggregate <StopChkInfo>

Stop Check Information Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">AcctKeys</a>	Aggregate	Required	Account Keys Aggregate
begin-xor		Required	
<a href="#">ChkNum</a>	NC-12	Required	Check Number
<a href="#">ChkNumRange</a>	Aggregate	Required	Check Number Range
end-xor			
<a href="#">Name</a>	C-40	Optional	Check Pay-To Name.
<a href="#">CurAmt</a>	Aggregate	Optional	Check Currency Amount.
<a href="#">OrigDt</a>	Date	Optional	Check Origination Date. The date on which the customer originates the check.
<a href="#">Desc</a>	C-80	Optional	Description. Additional information, such as why the check is being stopped.
<a href="#">WaiveFeeInd</a>	Boolean	Optional	Waive Fee Indicator
end Aggregate			

---

## Stop Check Request Message <StopChkInqRq>

Stop Check Inquiry Message. Allows client to view current Stopped Check records.

See the matching response message [StopChkInqRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
	UUID		

<a href="#">RqUID</a>		Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">DocCtrlIn</a>	Aggregate	Optional	Document Control Input
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
begin-xor		Optional Repeating	
<a href="#">StopChkSel</a>	Aggregate	Required	Stop Check Selection Aggregate
<a href="#">RecSelect</a>	IfxPath	Required	Record Select
end-xor			
end Aggregate			

---

### Stop Check Response Message <StopChkInqRs>

Stop Check Inquiry Message. Allows client to view current Stopped Check records.

See the matching request message [StopChkInqRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">DocCtrlOut</a>	Aggregate	Optional	Document Control Output
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">StopChkRec</a>	Aggregate	Required Repeating	Stop Check Record Aggregate
end-block			
end Aggregate			

---

### Stop Check Keys Aggregate <StopChkKeys>

## Stop Check Keys Aggregate

Extends: [BaseKeys](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseKeys			
end Elements from BaseKeys			
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
begin-xor		Required	
<a href="#">StopChkId</a>	Identifier	Required	Stop Check Identifier
begin-block		Required	
<a href="#">AcctKeys</a>	Aggregate	Required	Account Keys Aggregate
begin-xor		Optional	
<a href="#">ChkNum</a>	NC-12	Required	Check Number
<a href="#">ChkNumRange</a>	Aggregate	Required	Check Number Range
end-xor			
<a href="#">OrigDt</a>	Date	Optional	Origination Date
<a href="#">CurAmt</a>	Aggregate	Optional	Currency Amount
end-block			
end-xor			
end Aggregate			

---

## Stop Check Record Aggregate <StopChkRec>

Stop Check Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">StopChkId</a>	Identifier	Required	Stop Check Identifier
<a href="#">StopChkInfo</a>	Aggregate	Required	Stop Check Information Aggregate

<a href="#">StopChkEnvr</a>	Aggregate	Optional	Stop Check Environment Aggregate
<a href="#">StopChkStatus</a>	Aggregate	Required	Stop Check Status Aggregate
end Aggregate			

---

### Stop Check Reference Aggregate <StopChkRef>

Stop Check Reference Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">StopChkKeys</a>	Aggregate	Required	Stop Check Keys Aggregate
<a href="#">StopChkRec</a>	Aggregate	Required	Stop Check Record Aggregate
<a href="#">StopChkInfo</a>	Aggregate	Required	Stop Check Information Aggregate
end-xor			
end Aggregate			

---

### Stop Check Request Message <StopChkRevRq>

See the matching response message [StopChkRevRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RevReasonCode</a>	Aggregate	Required	Reversal Reason Code
<a href="#">Desc</a>	C-80	Optional	Description
<a href="#">StopChkRqMsg</a>	Aggregate	Required	Stop Check Request Message Record

			Aggregate
end Aggregate			

---

## Stop Check Response Message <StopChkRevRs>

See the matching request message [StopChkRevRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
end Aggregate			

---

## Stop Check Request Message Record Aggregate <StopChkRqMsg>

Stop Check Request Message Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">StopChkAddRq</a>	Aggregate	Required	Stop Check Add Request
<a href="#">StopChkCanRq</a>	Aggregate	Required	Stop Check Cancel Request
<a href="#">StopChkInqRq</a>	Aggregate	Required	Stop Check Inquiry Request
<a href="#">StopChkAdviseRq</a>	Aggregate	Required	Stop Check Advise Request
<a href="#">StopChkAudRq</a>	Aggregate	Required	Stop Check Audit Request
<a href="#">StopChkSyncRq</a>	Aggregate	Required	Stop Check Sync Request
<a href="#">RevRqUID</a>	UUID	Required	Reversal Request Unique ID

end-xor
end Aggregate

### Stop CheckResponse Message Record Aggregate <StopChkRsMsg>

Stop CheckResponse Message Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">MsgRecDt</a>	Timestamp	Optional	Audit Record Creation Date
begin-xor		Required	
<a href="#">StopChkAddRs</a>	Aggregate	Required	Stop Check Add Response
<a href="#">StopChkCanRs</a>	Aggregate	Required	Stop Check Cancel Response
<a href="#">StopChkRevRs</a>	Aggregate	Required	Stop Check Reversal Response
<a href="#">StopChkInqRs</a>	Aggregate	Required	Stop Check Inquiry Response
<a href="#">StopChkAdviseRs</a>	Aggregate	Required	Stop Check Advise Response
end-xor			
end Aggregate			

### Stop Check Selection Aggregate <StopChkSel>

Stop Check Selection Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required Repeating	
<a href="#">StopChkKeys</a>	Aggregate	Required	Stop Check Keys Aggregate
begin-block		Required	
	Aggregate		



<a href="#">AcctKeys</a>		Optional	Account Keys Aggregate
<a href="#">ChkNumRange</a>	Aggregate	Optional	Check Number Range
<a href="#">DtRange</a>	Aggregate	Optional	Date Range
<a href="#">CurAmtRange</a>	Aggregate	Optional	Currency Amount Range
end-block			
end-xor			
end Aggregate			

---

### Stop Check Status Aggregate <StopChkStatus>

Stop Check Status Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">StopChkStatusCode</a>	Open Enum	Required	Stop Check Status Code  Valid values include: Cancelled, Cleared, Deleted, Held, Pending, Rejected, Returned, Stopped, Valid
<a href="#">StatusDesc</a>	C-255	Optional	Status Description
<a href="#">EffDt</a>	DateTime	Optional	Effective Date Time
<a href="#">StatusModBy</a>	Open Enum	Optional	Status Modified By  Valid values include: BPP, BPPSR, BSP, BPSR, CPP, CPPSR, CSP, CSPSR, Customer, FI, PSP
<a href="#">StatusReason</a>	C-80	Optional	Status Reason
end Aggregate			

---

### Stop Check Status Code <StopChkStatusCode>

Used as part of the stop check transaction.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Pending	The request to stop the check is pending.	N
Stopped	The stop check request is in place.	N
Returned	A check that that has been stopped has been presented for payment and returned.	N
Cleared	The stop check request cannot be processed because the check has cleared.	N
Rejected	The request o stop the check cannot be processed for any reason other than that the check has already cleared.	N
Cancelled	The stop check request has been cancelled.	N
Valid		N
Deleted		N
Held	order was held	N

---

### Stop Check Status Record Aggregate <StopChkStatusRec>

Stop Check Status Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">StopChkId</a>	Identifier	Required	Stop Check Identifier
<a href="#">StopChkStatus</a>	Aggregate	Required	Stop Check Status Aggregate
end Aggregate			

---

### Stop Check Request Message <StopChkSyncRq>

Stop Check Sync Message. Allows client to synchronize Stop Check Add and Cancel messages associated with the current customer and bank account.

See the matching response message [StopChkSyncRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
<a href="#">StopChkKeys</a>	Aggregate	Optional Repeating	Stop Check Keys Aggregate
end Aggregate			

---

**Stop Check Response Message <StopChkSyncRs>**

Stop Check Sync Message. Allows client to synchronize Stop Check Add and Cancel messages associated with the current customer and bank account.

See the matching request message [StopChkSyncRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">StopChkRsMsg</a>	Aggregate	Optional Repeating	Stop CheckResponse Message Record Aggregate
end-block			
end Aggregate			

---

**Stop Over Indicator <StopOverInd>**

Indicates whether there was a direct or a non-direct flight or route on the same ticket number.

Datatype: **Boolean**

---

**Stop Serial Number <StopSerialNumber>**

Ending serial number for item(s).

Datatype: **NC-32**

---

**Sub-Account Reference Aggregate <SubAcctRef>**

Sub-Account Reference Aggregate

Extends: [AcctRef](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from AcctRef			
begin-xor		Required	
<a href="#">AcctKeys</a>	Aggregate	Required	Account Keys Aggregate
<a href="#">AcctRec</a>	Aggregate	Required	Account Record
<a href="#">AcctInfo</a>	Aggregate	Required	Account Information Aggregate
end-xor			
end Elements from AcctRef			
begin Aggregate			
end Aggregate			

---

**Subject Element <SubjectElement>**

The Subject Element aggregate provides the information about a specific element, within a request, that causes a status other than success. Not all status responses can be attributed to a particular element of a request message, but when a particular element, or relationship of elements can be attributed to a non-successful response status, this aggregate is used to specify the data associated with the element(s). It is not intended to be used to return multiple occurrences of the same status (e.g. a required element missing).

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">Path</a>	lfxPath	Required	Indicates which element is in error. It provides either the path of the element, or just the element name. If it provides the path, it must use lfxPath absolute notation with the starting node being the node of the message, and ending with the name of the element in error. In the event the lfxPath cannot be provided, this provides the name of the element in error.
<a href="#">Value</a>	C-256	Optional	The string representation of the data value of the element in error. This field is intended to provide a human readable visual hint as to the value in error. It should not be provided for fields that cannot be represented as a string (i.e., binary data).
end Aggregate			

---

### Subject Pass Code <SubjectPassCode>

A secondary password. May be required for certain financial transactions.

Extends: [SubjectPswd](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from SubjectPswd			
<a href="#">CryptType</a>	Open Enum	Required	Encryption Type.  Valid values include: ACBC, ACFB, ACM, AECB, AOFB, CBC, CFB, ECB, None, OFB, PKCS#1, PKCS#10, PKCS#7, RSA#1, TCBC, TCBC-I, TCFB, TCFB-P, TECB, TOFB, TOFB-I, TR-31

<a href="#">SecObjId</a>	Identifier	Optional Repeating	Security Object Identifier
begin-xor		Required	
<a href="#">Pswd</a>	C-32	Required	Clear Text Password
<a href="#">CryptPswd</a>	Aggregate	Required	Encrypted Password
end-xor			
end Elements from SubjectPswd			
begin Aggregate			
end Aggregate			

---

### Subject Password <SubjectPswd>

The subject's password

Extended By: [SubjectPassCode](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">CryptType</a>	Open Enum	Required	Encryption Type.  Valid values include: ACBC, ACFB, ACM, AECB, AOFB, CBC, CFB, ECB, None, OFB, PKCS#1, PKCS#10, PKCS#7, RSA#1, TCBC, TCBC-I, TCFB, TCFB-P, TECB, TOFB, TOFB-I, TR-31
<a href="#">SecObjId</a>	Identifier	Optional Repeating	Security Object Identifier
begin-xor		Required	
<a href="#">Pswd</a>	C-32	Required	Clear Text Password
<a href="#">CryptPswd</a>	Aggregate	Required	Encrypted Password
end-xor			
end Aggregate			

---

### Subject Role <SubjectRole>

The role for which this security token is valid.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Party	The party initiating the message	N
PartyRep	A representative for the party, who conducts the business on behalf of the party. Use only if it coexists with a Party role credential.	N
CSR	the representative of the FI	N
Supervisor	A supervisor (usually with higher authorization levels than CSR) representing the FI. Use only if it coexists with a CSR role credential.	N
System	a system or external device (e.g. an ATM or POS device)	N
Anonymous	this is an anonymous signon with no security token	N

---

### Supplemental country dependent code <SupplRptCode>

Datatype: **C-36**

---

### Supplying Country <SupplyingCountry>

ISO code of the country from which goods or services come.

Extends: [CountryCode](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from CountryCode			
<a href="#">CountryCodeSource</a>	Open Enum	Optional	Country Code Source  Valid values include: FIPS-10, ISO3166-Alpha-2, ISO3166-Alpha-3, ISO3166-Numeric, ITU-E.164, STANAG-1059  Default Value: ISO3166-Alpha-3
<a href="#">CountryCodeValue</a>	Open	Required	Country Code Value

	Enum		
end Elements from CountryCode			
begin Aggregate			
end Aggregate			

---

### Service Advise Message <SvcAdviseRq>

Service Advise Message

See the matching response message [SvcAdviseRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
begin-xor		Required	
<a href="#">SvcRec</a>	Aggregate	Required	Service Record
<a href="#">SvcStatusRec</a>	Aggregate	Required	Service Status Record
end-xor			
end Aggregate			

---

### Service Advise Response <SvcAdviseRs>

Service Advise Response

See the matching request message [SvcAdviseRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	



<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">SvcRec</a>	Aggregate	Required	Service Record
<a href="#">SvcStatusRec</a>	Aggregate	Required	Service Status Record
end-xor			
end-block			
end Aggregate			

---

## Service Environment Aggregate <SvcEnvr>

Service Environment Aggregate

Extends: [BaseEnvr](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseEnvr			
<a href="#">CreatedDt</a>	DateTime	Required	Created Date/Time. The date/time the object was created.
<a href="#">CreateRefIdent</a>	NC-36	Optional	An identifier used to uniquely identify the creation of this object to the system that created the object. This will usually be a link to reference information used in creating the object.
<a href="#">ClientCreateDt</a>	DateTime	Optional	The created date/time as reported by the client. This can vary from the object creation date/time due to time zone differences, communication delays, etc
<a href="#">ClientBusinessDt</a>	DateTime	Optional	The date/time that the client recorded this object for operational purposes. This date/time will often be used to manage the availability of information or funds.
<a href="#">LastUpdateDt</a>	DateTime	Optional	Last update Date/Time. The date/time the object was created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq

			and verified on a mod).
<a href="#">LastUpdateRqUID</a>	UUID	Optional	Last update RqUID. The RqUID from the message that resulted in th object being created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LoginName</a>	C-40	Optional	The login name (or Id) of the individual that authorized this object to be created. This is typically used when the object is created on behalf of its owner by someone who is not normally represented as a Party (i.e., an employee or agent).
<a href="#">PartyKeys</a>	Aggregate	Optional	Reference to the Party that this object is owned by or authorized by.
<a href="#">CardKeys</a>	Aggregate	Optional	This is dependent on Card proposal. Currently this is implemented as the CardLogicalData aggregate.
<a href="#">PassbkKeys</a>	Aggregate	Optional	Currently PassbkAcceptData.
<a href="#">NetworkTrnData</a>	Aggregate	Optional	Network Transaction Information. Identification and location of the terminal from which the message originates.
<a href="#">ServerTerminalSeqNum</a>	NC-36	Optional	Server Terminal Sequence Number. A terminal sequence number generated by the server to identify this object. This number is used in ATM and POS environments to uniquely identify transactions (with terminal name and date) for transaction management.
<a href="#">PointOfServiceData</a>	Aggregate	Optional	The Point of Service Data. This aggregate contains information about the environment in which this message originated.
<a href="#">ClientTerminalSeqNum</a>	NC-36	Optional	Client Terminal Sequence Number. A terminal sequence number generated by the client to identify this object. This number is used in ATM, POS, Branch, Call Center and Teller environments to uniquely identify transactions at the client (with terminal name and date). This number is often required when requesting supporting documentation related to a customer transaction.
end Elements from BaseEnvr			
begin Aggregate			
end Aggregate			

---

## Service Identifier <SvcId>

Service Identifier

Datatype: **Identifier**

---

## Service Identifier <SvcIdent>

The Service Identifier consists of 2 elements that uniquely identify a service. The SvcProviderName uniquely identifies the provider and the SvcName uniquely identifies the service within the SPs implementation.

Because the Service Provider Name element is a globally unique identifier for a service provider and the SvcName is a unique identifier for a service within the Service Provider's implementation framework <SvcIdent> is a globally unique qualifier for message routing and ID qualification. <SvcIdent> is therefore used for 2 distinct purposes.

- To specify the destination of a message, when multiple service providers provide a similar service, e.g. a CSP interacts with multiple BSPs to implement Bill Presentment. (See MsgRqHdr)
- To qualify the id of any object that it owns, e.g. <BillerId>, <PmtId>, <XferId>. There are cases where different <SvcProviderName>s may be used in the same message, e.g. the BSPs <SvcProviderName> is used to qualify the <BillerId> in a message that is sent to the CPP.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcProviderName</a>	URL	Optional	The Service Provider Name element is a globally unique identifier for a service provider.
<a href="#">SvcName</a>	C-32	Optional	Service Name. Must be unique in the Service Provider.
end Aggregate			

---

## Service Information Aggregate <SvcInfo>

## Service Information Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcName</a>	C-32	Required	Service Name. Must be unique in the Service Provider.
<a href="#">Version</a>	NC-12	Optional	The version of the object or item.
<a href="#">PrcSched</a>	Aggregate	Required	Processing Schedule
<a href="#">MsgSupt</a>	C-64	Required Repeating	Messages Supported Element
<a href="#">OperSupt</a>	C-64	Optional Repeating	The name of an Operation supported in a particular service.
<a href="#">DiscRef</a>	Aggregate	Optional Repeating	Disclosure Reference Aggregate
<a href="#">SvcStatusDt</a>	DateTime	Required	Service Status Date
end Aggregate			

---

## Service Inquiry Request <SvcInqRq>

Service Inquiry Request

See the matching response message [SvcInqRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">DocCtrlIn</a>	Aggregate	Optional	Document Control Input
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
begin-xor		Optional Repeating	
<a href="#">SvcSel</a>	Aggregate	Required	
<a href="#">RecSelect</a>	lfxPath	Required	Record Select
end Aggregate			

end-xor
end Aggregate

---

## Service Inquiry Response <SvcInqRs>

Service Inquiry Response

See the matching request message [SvcInqRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">DocCtrlOut</a>	Aggregate	Optional	Document Control Output
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">SvcRec</a>	Aggregate	Required Repeating	Service Record
end-block			
end Aggregate			

---

## Service Keys Aggregate <SvcKeys>

Service Keys Aggregate

Extends: [BaseKeys](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseKeys			
end Elements from BaseKeys			

begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
begin-xor		Required	
<a href="#">SvcId</a>	Identifier	Required	Service Identifier
<a href="#">SvcName</a>	C-32	Required	Service Name. Must be unique in the Service Provider.
end-xor			
end Aggregate			

---

### Service Name <SvcName>

The name of the service

Datatype: **C-32**

---

### Service Provider Environment Aggregate <SvcProviderEnvr>

Service Provider Environment Aggregate

Extends: [BaseEnvr](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseEnvr			
<a href="#">CreatedDt</a>	DateTime	Required	Created Date/Time. The date/time the object was created.
<a href="#">CreateRefIdent</a>	NC-36	Optional	An identifier used to uniquely identify the creation of this object to the system that created the object. This will usually be a link to reference information used in creating the object.
<a href="#">ClientCreateDt</a>	DateTime	Optional	The created date/time as reported by the client. This can vary from the object creation date/time due to time zone differences, communication delays, etc
<a href="#">ClientBusinessDt</a>	DateTime	Optional	The date/time that the client recorded

			this object for operational purposes. This date/time will often be used to manage the availability of information or funds.
<a href="#">LastUpdateDt</a>	DateTime	Optional	Last update Date/Time. The date/time the object was created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LastUpdateRqUID</a>	UUID	Optional	Last update RqUID. The RqUID from the message that resulted in the object being created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LoginName</a>	C-40	Optional	The login name (or Id) of the individual that authorized this object to be created. This is typically used when the object is created on behalf of its owner by someone who is not normally represented as a Party (i.e., an employee or agent).
<a href="#">PartyKeys</a>	Aggregate	Optional	Reference to the Party that this object is owned by or authorized by.
<a href="#">CardKeys</a>	Aggregate	Optional	This is dependent on Card proposal. Currently this is implemented as the CardLogicalData aggregate.
<a href="#">PassbkKeys</a>	Aggregate	Optional	Currently PassbkAcceptData.
<a href="#">NetworkTrnData</a>	Aggregate	Optional	Network Transaction Information. Identification and location of the terminal from which the message originates.
<a href="#">ServerTerminalSeqNum</a>	NC-36	Optional	Server Terminal Sequence Number. A terminal sequence number generated by the server to identify this object. This number is used in ATM and POS environments to uniquely identify transactions (with terminal name and date) for transaction management.
<a href="#">PointOfServiceData</a>	Aggregate	Optional	The Point of Service Data. This aggregate contains information about the environment in which this message originated.
<a href="#">ClientTerminalSeqNum</a>	NC-36	Optional	Client Terminal Sequence Number. A terminal sequence number generated by the client to identify this object. This number is used in ATM, POS, Branch, Call Center and Teller environments to uniquely identify transactions at the client (with terminal name and date). This number is often required when requesting supporting documentation related to a customer transaction.

end Elements from BaseEnvr
begin Aggregate
end Aggregate

---

### Service Provider Identifier <SvcProviderId>

Service Provider Identifier

Datatype: **Identifier**

---

### Service Provider Information Aggregate <SvcProviderInfo>

Service Provider information describes key aspects of the Service Provider including processing schedule, options supported and services supported. A SvcProvider must offer at least one Service described by a Svc.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcProviderName</a>	URL	Required	The Service Provider Name element is a globally unique identifier for a service provider.
<a href="#">LegalName</a>	C-96	Optional	Legal Name
<a href="#">HoldColdent</a>	C-40	Optional	SP Holding Company Identification
<a href="#">Contact</a>	Aggregate	Optional Repeating	Contact
begin-block		Required Repeating	
<a href="#">SvcRef</a>	Aggregate	Required	Service Reference Aggregate
<a href="#">SvcStatusDt</a>	DateTime	Required	Service Status Date
end-block			
end Aggregate			



---

## Service Provider Inquiry Request <SvcProviderInqRq>

Service Provider Inquiry Request

See the matching response message [SvcProviderInqRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">DocCtrlIn</a>	Aggregate	Optional	Document Control Input
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
begin-xor		Optional Repeating	
<a href="#">SvcProviderSel</a>	Aggregate	Required	
<a href="#">RecSelect</a>	lfxPath	Required	Record Select
end-xor			
end Aggregate			

---

## Service Provider Inquiry Response <SvcProviderInqRs>

Service Provider Inquiry Response

See the matching request message [SvcProviderInqRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header

end-block			
begin-block		Optional	required if message is successful
<a href="#">DocCtrlOut</a>	Aggregate	Optional	Document Control Output
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">SvcProviderRec</a>	Aggregate	Required Repeating	Service Provider Record
end-block			
end Aggregate			

---

### Service Provider Keys Aggregate <SvcProviderKeys>

Note that this is structured as an exception to the normal IFX pattern defining object keys. All other objects are qualified by a SvcIdent which indicates which Svc at a Service Provider assigned the object ID.

The Service Provider identification is not assigned by a Svc. The IFX convention is that a Service Provider is uniquely identified by a domain name - <SvcProviderName>. Consistent with the conventional pattern, SvcProviderKeys also supports an arbitrary identifier as <SvcProviderID>.

Extends: [BaseKeys](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseKeys			
end Elements from BaseKeys			
begin Aggregate			
begin-xor		Required	
<a href="#">SvcProviderId</a>	Identifier	Required	Service Provider Identifier
<a href="#">SvcProviderName</a>	URL	Required	The Service Provider Name element is a globally unique identifier for a service provider.
end-xor			
end Aggregate			

---

### Service Provider Name <SvcProviderName>

The Service Provider Name element is a globally unique identifier for a service provider, e.g., the domain name of the SP. It is a required element in <SvcIdent>. As part of SvcIdent <SvcProviderName> is used for 2 distinct purposes.

- To specify the destination of a message, when multiple service providers provide the same service, e.g. a CSP interacts with multiple BSPs to implement Bill Presentment. (See MsgRqHdr)
- As part of the qualifier of the id of any object that it owns, e.g. <BillerId>, <PmtId>, <XferId>. There are cases where different <SvcProviderName>s may be used in the same message, e.g. the BSPs <SvcProviderName> is used to qualify the <BillerId> in a message that is sent to the CPP.

To ensure uniqueness, <SvcProviderName> must be an Internet domain name registered to the SP. For example, the Banker's Roundtable would use "org.bankersround" as the value for <SvcProviderName>.

Datatype: **URL**

---

### Service Provider Record <SvcProviderRec>

Service Provider Record

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">SvcProviderId</a>	Identifier	Required	Service Provider Identifier
<a href="#">SvcProviderInfo</a>	Aggregate	Required	Service Provider Information Aggregate
<a href="#">SvcProviderEnvr</a>	Aggregate	Optional	Service Provider Environment Aggregate
<a href="#">SvcProviderStatus</a>	Aggregate	Required	Service Provider Status Aggregate
end Aggregate			

---

### Service Provider Reference Aggregate <SvcProviderRef>

Service Provider Reference Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">SvcProviderKeys</a>	Aggregate	Required	Service Provider Keys Aggregate
<a href="#">SvcProviderRec</a>	Aggregate	Required	Service Provider Record
<a href="#">SvcProviderInfo</a>	Aggregate	Required	Service Provider Information Aggregate
end-xor			
end Aggregate			

---

**Service Provider Selection Aggregate <SvcProviderSel>**

Service Provider Selection Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required Repeating	
<a href="#">SvcProviderKeys</a>	Aggregate	Required	Service Provider Keys Aggregate
end-xor			
end Aggregate			

---

**Service Provider Status Aggregate <SvcProviderStatus>**

Service Provider Status Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
	Open		

<a href="#">SvcProviderStatusCode</a>	Enum	Required	Service Provider Status Code Valid values include: Active, Deleted, Inactive, Valid
<a href="#">StatusDesc</a>	C-255	Optional	Status Description
<a href="#">EffDt</a>	DateTime	Optional	Effective Date Time
<a href="#">StatusModBy</a>	Open Enum	Optional	Status Modified By Valid values include: BPP, BPPSR, BSP, BPSR, CPP, CPPSR, CSP, CSPSR, Customer, FI, PSP
end Aggregate			

---

### Service Provider Status Code <SvcProviderStatusCode>

Service Provider Status Code

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
Valid		N
Deleted		N
Active	The Service Provider is active	Y
Inactive	The Service Provider is no longer active	N

---

### Service Provider Status Record <SvcProviderStatusRec>

Service Provider Status Record

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">SvcProviderId</a>	Identifier	Required	Service Provider Identifier

<a href="#">SvcProviderStatus</a>	Aggregate	Required	Service Provider Status Aggregate
end Aggregate			

---

### Service Record <SvcRec>

Service Record

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">SvcId</a>	Identifier	Required	Service Identifier
<a href="#">SvcInfo</a>	Aggregate	Required	Service Information Aggregate
<a href="#">SvcEnvr</a>	Aggregate	Optional	Service Environment Aggregate
<a href="#">SvcStatus</a>	Aggregate	Required	Service Status Aggregate
end Aggregate			

---

### Service Reference Aggregate <SvcRef>

Service Reference Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">SvcKeys</a>	Aggregate	Required	Service Keys Aggregate
<a href="#">SvcRec</a>	Aggregate	Required	Service Record
<a href="#">SvcInfo</a>	Aggregate	Required	Service Information Aggregate
end-xor			
end Aggregate			

---

## Service Response Messages Aggregate <SvcRsMsg>

Service Response Messages Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">MsgRecDt</a>	Timestamp	Optional	Audit Record Creation Date
begin-xor		Required	
<a href="#">SvcInqRs</a>	Aggregate	Required	Service Inquiry Response
<a href="#">SvcAdviseRs</a>	Aggregate	Required	Service Advise Response
<a href="#">SvcStatusInqRs</a>	Aggregate	Required	Service Status Inquiry Response
end-xor			
end Aggregate			

---

## Service Selection Aggregate <SvcSel>

Service Selection Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required Repeating	
<a href="#">SvcKeys</a>	Aggregate	Required	Service Keys Aggregate
end-xor			
end Aggregate			

---

## Service Status Aggregate <SvcStatus>

## Service Status Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcStatusCode</a>	Open Enum	Required	Service Status Code Valid values include: Active, Deleted, Inactive, Valid
<a href="#">StatusDesc</a>	C-255	Optional	Status Description
<a href="#">EffDt</a>	DateTime	Optional	Effective Date Time
<a href="#">StatusModBy</a>	Open Enum	Optional	Status Modified By Valid values include: BPP, BPPSR, BSP, BPSR, CPP, CPPSR, CSP, CSPSR, Customer, FI, PSP
end Aggregate			

---

### Service Status Code <SvcStatusCode>

Service Status Code

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Valid		N
Deleted		N
Active	Service is an active service for this service provider	Y
Inactive	Service is no longer active for this service provider	N

---

### Service Status Date <SvcStatusDt>

Service Status Date

Datatype: **DateTime**



---

## Service Status Inquiry Request <SvcStatusInqRq>

Service Status Inquiry Request

See the matching response message [SvcStatusInqRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
begin-xor		Optional Repeating	
<a href="#">SvcSel</a>	Aggregate	Required	
<a href="#">RecSelect</a>	IfxPath	Required	Record Select
end-xor			
end Aggregate			

---

## Service Status Inquiry Response <SvcStatusInqRs>

Service Status Inquiry Response

See the matching request message [SvcStatusInqRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header

end-block			
begin-block		Optional	required if message is successful
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">SvcStatusRec</a>	Aggregate	Optional Repeating	Service Status Record
end-block			
end Aggregate			

---

## Service Status Record <SvcStatusRec>

Service Status Record

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">SvcId</a>	Identifier	Required	Service Identifier
<a href="#">SvcStatus</a>	Aggregate	Required	Service Status Aggregate
end Aggregate			

---

## Service Sync Request <SvcSyncRq>

Service Sync Request

See the matching response message [SvcSyncRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
<a href="#">SvcKeys</a>	Aggregate	Optional	Service Keys Aggregate

		Repeating	
end Aggregate			

---

## Service Sync Response <SvcSyncRs>

Service Sync Response

See the matching request message [SvcSyncRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">SvcRsMsg</a>	Aggregate	Optional Repeating	Service Response Messages Aggregate
end-block			
end Aggregate			

---

## Tax Country <TaxCountry>

Tax Country

Extends: [CountryCode](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from CountryCode			
<a href="#">CountryCodeSource</a>	Open Enum	Optional	Country Code Source  Valid values include: FIPS-10, ISO3166-

			Alpha-2, ISO3166-Alpha-3, ISO3166-Numeric, ITU-E.164, STANAG-1059 Default Value: ISO3166-Alpha-3
<a href="#">CountryCodeValue</a>	Open Enum	Required	Country Code Value _____
end Elements from CountryCode			
begin Aggregate			
end Aggregate			

---

### Tax Data <TaxData>

Supports attributes with respect to taxes paid by an FI on behalf of the tax responsible party of an account.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">Org</a>	Identifier	Optional	Organization. Organization defining this name space. Usage is Tax Authority (e.g., state or country).
<a href="#">TaxType</a>	Open Enum	Optional	Tax Type _____ Valid values include: NonResWithHoldTax, ResWithholdTax, WithholdingTax
begin-or		Required	
<a href="#">CurAmt</a>	Aggregate	Required	Tax Amount (+ paid by customer, - earned by customer).
<a href="#">Rate</a>	Decimal	Required	Tax Rate. Usage is a percentage (e.g., a value of 5.2 = 5.2%). (+ paid by customer, - earned by customer)
end-or			
end Aggregate			

---

### Tax Exempt <TaxExempt>

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
NotTaxExempt		Y
NonProfit		N
Government		N

---

### Tax Exempt Indicator <TaxExemptInd>

The indicator noting whether the goods or services were tax-exempt.

Datatype: **Boolean**

---

### Tax Identifier <TaxIdent>

Customer Tax ID.

Datatype: **NC-12**

---

### Tax ID Lost <TaxIDLost>

Identifies if the Social Security Number/Tax ID was lost with the reported card.

Datatype: **Boolean**

---

## Tax Paid Amount <TaxPaidCurAmt>

Extends: [CurAmt](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from CurAmt			
<a href="#">Amt</a>	Decimal	Optional	Amount.
<a href="#">CurCode</a>	Aggregate	Optional	Currency Code
end Elements from CurAmt			
begin Aggregate			
end Aggregate			

---

## Tax Province <TaxProvince>

Tax Province

Datatype: **C-32**

---

## TaxResidence Country <TaxResidenceCountry>

3-letter country code ISO 3166. The country of the legal address where a party pays their taxes

Extends: [CountryCode](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from CountryCode			
<a href="#">CountryCodeSource</a>	Open Enum	Optional	Country Code Source <hr/> Valid values include: FIPS-10, ISO3166-Alpha-2, ISO3166-Alpha-3, ISO3166-Numeric, ITU-E.164, STANAG-1059  Default Value: ISO3166-Alpha-3
	Open		

<a href="#">CountryCodeValue</a>	Enum	Required	Country Code Value
end Elements from CountryCode			
begin Aggregate			
end Aggregate			

---

### Tax Type <TaxType>

Tax Type. Qualified by <Org>.

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
WithholdingTax	Withholding Tax	N
ResWithholdTax	Resident Withholding Tax	N
NonResWithHoldTax	NonResident Withholding Tax	N

---

### Tax Withheld Data <TaxWithheldData>

Provides tax data withheld by the FI for a specific tax year.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">TaxYear</a>	Long	Required	Tax Year
<a href="#">TaxData</a>	Aggregate	Required Repeating	Tax Data
<a href="#">TaxIdent</a>	NC-12	Optional	Tax Identifier
end Aggregate			

---

**Tax Withholding Indicator <TaxWithholding>**

Indicates if the Financial Institution will deduct/withhold some part of the interest earned on a deposit account to give to the tax governing authority.

Datatype: **Boolean**

---

**Tax Year <TaxYear>**

Tax year.

Datatype: **Long**

---

**Temporary PIN Indicator <TemporaryPINInd>**

Indicates if the PIN assigned to the account is a temporary PIN and should be changed upon first successful login.

Datatype: **Boolean**

---

**Term <Term>**

The Term for a deposit or credit account.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">Count</a>	Long	Optional	In this context, <Count> is the number of <TermUnits> for which a term deposit is effective or a credit instrument must be paid. At the end of this period, the term deposit ceases to exist.



			Note: If <TermUnits>=Days, this is the number of calendar days, not business days.
<a href="#">TermUnits</a>	Closed Enum	Required	Term Units. Units in which the term deposit or credit instrument is measured.  Valid values are limited to: Days, Indefinite, Months, Weeks, Years
<a href="#">Desc</a>	C-80	Optional	Description
end Aggregate			

---

### Terminal Identifier <TerminalIdent>

Terminal Identifier. Identification of a terminal, such as terminal code or terminal number of ATM.

Datatype: **NC-36**

---

### Terminal Object Request Message <TerminalObjAddRq>

An IFX client uses the <TerminalObjAddRq> message to add a Terminal object.

See the matching response message [TerminalObjAddRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">TerminalObjInfo</a>	Aggregate	Required	Terminal Object Information Aggregate
end Aggregate			

---

## Terminal Object Response Message <TerminalObjAddRs>

An IFX client uses the Terminal Object Add message to add a Terminal object.

See the matching request message [TerminalObjAddRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">TerminalObjRec</a>	Aggregate	Required	Terminal Object Record Aggregate
<a href="#">TerminalObjStatusRec</a>	Aggregate	Required	Terminal Object Status Record Aggregate
end-xor			
end-block			
end Aggregate			

---

## Terminal Object Request Message <TerminalObjAdviseRq>

Since the Terminal object resides on the Terminal, the Terminal will use the <TerminalObjAdviseRq> message to inform other IFX entities (e.g. Hosts, CSP, SP) of changes to the Terminal object.

See the matching response message [TerminalObjAdviseRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
	UUID		

<a href="#">RqUID</a>		Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
begin-xor		Required	
<a href="#">TerminalObjRec</a>	Aggregate	Required	Terminal Object Record Aggregate
<a href="#">TerminalObjStatusRec</a>	Aggregate	Required	Terminal Object Status Record Aggregate
end-xor			
end Aggregate			

---

### Terminal Object Response Message <TerminalObjAdviseRs>

Since the Terminal object resides on the Terminal, the Terminal will use the Terminal Object Advise message to inform other IFX entities (e.g. Hosts, CSP, SP) of changes to the Terminal object.

See the matching request message [TerminalObjAdviseRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">TerminalObjRec</a>	Aggregate	Required	Terminal Object Record Aggregate
<a href="#">TerminalObjStatusRec</a>	Aggregate	Required	Terminal Object Status Record Aggregate
end-xor			
end-block			
end Aggregate			

---

### Terminal Object Request Message <TerminalObjAudRq>

An IFX client uses the <TerminalObjAudRq> message to audit messages associated with a particular Terminal object.

See the matching response message [TerminalObjAudRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
<a href="#">DtRange</a>	Aggregate	Optional	Date Range
<a href="#">Method</a>	Closed Enum	Optional Repeating	Method Valid values are limited to: Add, Advise, AuthMod, Can, Del, Mod, StatusMod
<a href="#">TerminalObjKeys</a>	Aggregate	Optional Repeating	Terminal Object Keys Aggregate
end Aggregate			

### Terminal Object Response Message <TerminalObjAudRs>

An IFX client uses the Terminal Object Audit message to audit messages associated with a particular Terminal object.

See the matching request message [TerminalObjAudRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
end-block			

<a href="#">TerminalObjRsMsg</a>	Aggregate	Optional Repeating	Terminal ObjectResponse Message Record Aggregate
end-block			
end Aggregate			

---

### Terminal Object Request Message <TerminalObjDelRq>

An IFX client uses the <TerminalObjDelRq> message to delete a Terminal object.

See the matching response message [TerminalObjDelRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">TerminalObjKeys</a>	Aggregate	Required	Terminal Object Keys Aggregate
end Aggregate			

---

### Terminal Object Response Message <TerminalObjDelRs>

An IFX client uses the Terminal Object Delete message to delete a Terminal object.

See the matching request message [TerminalObjDelRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			

begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">TerminalObjRec</a>	Aggregate	Required	Terminal Object Record Aggregate
<a href="#">TerminalObjStatusRec</a>	Aggregate	Required	Terminal Object Status Record Aggregate
end-xor			
end-block			
end Aggregate			

## Terminal Object Environment Aggregate <TerminalObjEnvr>

Terminal Object Environment Aggregate

Extends: [BaseEnvr](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseEnvr			
<a href="#">CreatedDt</a>	DateTime	Required	Created Date/Time. The date/time the object was created.
<a href="#">CreateRefIdent</a>	NC-36	Optional	An identifier used to uniquely identify the creation of this object to the system that created the object. This will usually be a link to reference information used in creating the object.
<a href="#">ClientCreateDt</a>	DateTime	Optional	The created date/time as reported by the client. This can vary from the object creation date/time due to time zone differences, communication delays, etc
<a href="#">ClientBusinessDt</a>	DateTime	Optional	The date/time that the client recorded this object for operational purposes. This date/time will often be used to manage the availability of information or funds.
<a href="#">LastUpdateDt</a>	DateTime	Optional	Last update Date/Time. The date/time the object was created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LastUpdateRqUID</a>	UUID	Optional	Last update RqUID. The RqUID from the message that resulted in th object being created or modified. This field is intended to support optimistic concurrency implementations

			(provided on an inq and verified on a mod).
<a href="#">LoginName</a>	C-40	Optional	The login name (or Id) of the individual that authorized this object to be created. This is typically used when the object is created on behalf of its owner by someone who is not normally represented as a Party (i.e., an employee or agent).
<a href="#">PartyKeys</a>	Aggregate	Optional	Reference to the Party that this object is owned by or authorized by.
<a href="#">CardKeys</a>	Aggregate	Optional	This is dependent on Card proposal. Currently this is implemented as the CardLogicalData aggregate.
<a href="#">PassbkKeys</a>	Aggregate	Optional	Currently PassbkAcceptData.
<a href="#">NetworkTrnData</a>	Aggregate	Optional	Network Transaction Information. Identification and location of the terminal from which the message originates.
<a href="#">ServerTerminalSeqNum</a>	NC-36	Optional	Server Terminal Sequence Number. A terminal sequence number generated by the server to identify this object. This number is used in ATM and POS environments to uniquely identify transactions (with terminal name and date) for transaction management.
<a href="#">PointOfServiceData</a>	Aggregate	Optional	The Point of Service Data. This aggregate contains information about the environment in which this message originated.
<a href="#">ClientTerminalSeqNum</a>	NC-36	Optional	Client Terminal Sequence Number. A terminal sequence number generated by the client to identify this object. This number is used in ATM, POS, Branch, Call Center and Teller environments to uniquely identify transactions at the client (with terminal name and date). This number is often required when requesting supporting documentation related to a customer transaction.
end Elements from BaseEnvr			
begin Aggregate			
end Aggregate			

---

### Terminal Object Identifier <TerminalObjId>

Terminal Object Identifier

Datatype: **Identifier**

---

**Terminal Object Information Aggregate <TerminalObjInfo>**

Terminal Object Information Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">PostAddr</a>	Aggregate	Optional	Postal Address Aggregate. The physical address of the ATM/POS terminal.
<a href="#">Desc</a>	C-80	Optional	Description. The generally accepted name for the location of the ATM/POS terminal.
<a href="#">Name</a>	C-40	Optional	Name. Name of the owner or operator of the ATM/POS terminal.
<a href="#">UTCOffset</a>	Long	Optional	Offset from UTC in minutes for the ATM/POS terminal.
<a href="#">Application</a>	Open Enum	Optional	Application Valid values include: ATM, CallCenter, Other, POS, Teller
<a href="#">Environment</a>	Open Enum	Optional	Environment Valid values include: ATM, CAT, Deferred, ECommerce, Installment, Mail, MCommerce, POS, Recurring, StoredData, Telephone, Unknown
<a href="#">POSCapabilities</a>	Aggregate	Optional	Point of Service Capabilities
<a href="#">POSLocation</a>	Open Enum	Optional	Point Of Sale Location Valid values include: Agent, Branch, CallCenter, Customer, OffPremise, OnPremise, Retail, Unknown
end Aggregate			

---

**Terminal Object Request Message <TerminalObjInqRq>**

An IFX client uses the <TerminalObjInqRq> message to retrieve Terminal



objects.

See the matching response message [TerminalObjInqRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">DocCtrlIn</a>	Aggregate	Optional	Document Control Input
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
begin-xor		Optional Repeating	
<a href="#">TerminalObjSel</a>	Aggregate	Required	Terminal Object Selection Aggregate
<a href="#">RecSelect</a>	IfxPath	Required	Record Select
end-xor			
end Aggregate			

---

### Terminal Object Response Message <TerminalObjInqRs>

An IFX client uses the Terminal Object Inquiry message to retrieve Terminal objects.

See the matching request message [TerminalObjInqRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">DocCtrlOut</a>	Aggregate	Optional	Document Control Output
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output

<a href="#">TerminalObjRec</a>	Aggregate	Required Repeating	Terminal Object Record Aggregate
end-block			
end Aggregate			

---

### Terminal Object Keys Aggregate <TerminalObjKeys>

Terminal Object Keys Aggregate

Extends: [BaseKeys](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseKeys			
end Elements from BaseKeys			
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
begin-xor		Required	
<a href="#">TerminalObjId</a>	Identifier	Required	Terminal Object Identifier
end-xor			
end Aggregate			

---

### Terminal Object Request Message <TerminalObjModRq>

An IFX client uses the <TerminalObjModRq> message to modify a Terminal object.

See the matching response message [TerminalObjModRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header

<a href="#">TerminalObjKeys</a>	Aggregate	Required	Terminal Object Keys Aggregate
begin-block		Required Repeating	
<a href="#">TerminalObjInfo</a>	Aggregate	Required	Terminal Object Information Aggregate
begin-xor		Optional Repeating	
<a href="#">DelElements</a>	lfxPath	Required	An lfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to delete. It is an error if one attempts to delete Required fields.
<a href="#">UpdElements</a>	lfxPath	Required	An lfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to update. The new value of the updated element is in the accompanying xxxInfo aggregate.
<a href="#">NewElements</a>	lfxPath	Required	An lfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to add. The new value of the new elements is in the accompanying xxxInfo aggregate.
end-xor			
end-block			
end Aggregate			

### Terminal Object Response Message <TerminalObjModRs>

An IFX client uses the Terminal Object Modify message to modify a Terminal object.

See the matching request message [TerminalObjModRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	

<a href="#">TerminalObjRec</a>	Aggregate	Required	Terminal Object Record Aggregate
<a href="#">TerminalObjStatusRec</a>	Aggregate	Required	Terminal Object Status Record Aggregate
end-xor			
end-block			
end Aggregate			

---

### Terminal Object Record Aggregate <TerminalObjRec>

Terminal Object Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">TerminalObjId</a>	Identifier	Required	Terminal Object Identifier
<a href="#">TerminalObjInfo</a>	Aggregate	Required	Terminal Object Information Aggregate
<a href="#">TerminalObjEnvr</a>	Aggregate	Optional	Terminal Object Environment Aggregate
<a href="#">TerminalObjStatus</a>	Aggregate	Required	Terminal Object Status Aggregate
end Aggregate			

---

### Terminal Object Reference Aggregate <TerminalObjRef>

Terminal Object Reference Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">TerminalObjKeys</a>	Aggregate	Required	Terminal Object Keys Aggregate
<a href="#">TerminalObjRec</a>	Aggregate	Required	Terminal Object Record Aggregate
<a href="#">TerminalObjInfo</a>	Aggregate	Required	Terminal Object Information Aggregate
end-xor			

end Aggregate

---

### Terminal ObjectResponse Message Record Aggregate <TerminalObjRsMsg>

Terminal ObjectResponse Message Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">MsgRecDt</a>	Timestamp	Optional	Audit Record Creation Date
begin-xor		Required	
<a href="#">TerminalObjAddRs</a>	Aggregate	Required	Terminal Object Add Response
<a href="#">TerminalObjModRs</a>	Aggregate	Required	Terminal Object Modify Response
<a href="#">TerminalObjDelRs</a>	Aggregate	Required	Terminal Object Delete Response
<a href="#">TerminalObjInqRs</a>	Aggregate	Required	Terminal Object Inquiry Response
<a href="#">TerminalObjAdviseRs</a>	Aggregate	Required	Terminal Object Advise Response
<a href="#">TerminalObjStatusModRs</a>	Aggregate	Required	Terminal Object Status Modify Response
end-xor			
end Aggregate			

---

### Terminal Object Selection Aggregate <TerminalObjSel>

Terminal Object Selection Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required Repeating	
<a href="#">TerminalObjKeys</a>	Aggregate	Required	Terminal Object Keys Aggregate
end-xor			
end Aggregate			

end-xor
end Aggregate

---

### Terminal Object Status Aggregate <TerminalObjStatus>

Terminal Object Status Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">TerminalObjStatusCode</a>	Open Enum	Required	Terminal Object Status Code Valid values include: Closed, Deleted, Open, Valid
<a href="#">StatusDesc</a>	C-255	Optional	Status Description
<a href="#">EffDt</a>	DateTime	Optional	Effective Date Time
<a href="#">StatusModBy</a>	Open Enum	Optional	Status Modified By Valid values include: BPP, BPPSR, BSP, BSPSR, CPP, CPPSR, CSP, CSPSR, Customer, FI, PSP
<a href="#">RequestedOperationMode</a>	Closed Enum	Optional	Requested Operation Mode Valid values are limited to: Closed, Open
<a href="#">ExpectedOpenDt</a>	DateTime	Optional	Expected Open DateTime
<a href="#">EffUrgency</a>	Closed Enum	Optional	Effective Urgency Valid values are limited to: CurrentTransactionEnd, Immediate, SessionEnd
<a href="#">RestartType</a>	Open Enum	Optional	Restart Type Valid values include: Restart
end Aggregate			

---

### Terminal Object Status Code <TerminalObjStatusCode>

Current operation mode of the terminal.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Open	The terminal accepts business transactions and administrative maintenance.	N
Valid		N
Deleted		N
Closed	The terminal does not accept business transactions, but does accept administrative maintenance.	N

---

### Terminal Object Request Message <TerminalObjStatusModRq>

An IFX client uses the <TerminalObjStatusModRq> message to modify the status of a particular Terminal object.

See the matching response message [TerminalObjStatusModRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">TerminalObjKeys</a>	Aggregate	Required	Terminal Object Keys Aggregate
<a href="#">TerminalObjStatus</a>	Aggregate	Required	Terminal Object Status Aggregate
end Aggregate			

---

### Terminal Object Response Message <TerminalObjStatusModRs>

An IFX client uses the Terminal Object Status Modify message to modify the status of a particular Terminal object.

See the matching request message [TerminalObjStatusModRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">TerminalObjStatusRec</a>	Aggregate	Required	Terminal Object Status Record Aggregate
end-block			
end Aggregate			

---

**Terminal Object Status Record Aggregate <TerminalObjStatusRec>**

Terminal Object Status Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">TerminalObjId</a>	Identifier	Required	Terminal Object Identifier
<a href="#">TerminalObjStatus</a>	Aggregate	Required	Terminal Object Status Aggregate
end Aggregate			

---

**Terminal Service Provider Object Request Message  
<TerminalSPObjAddRq>**

An IFX client uses this message to add a Terminal Service Provider object.

See the matching response message [TerminalSPObjAddRs](#)



Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">TerminalSPObjInfo</a>	Aggregate	Required	Terminal Service Provider Object Information Aggregate
end Aggregate			

---

**Terminal Service Provider Object Response Message**  
**<TerminalSPObjAddRs>**

Response to Terminal Service Provider Object Add request

See the matching request message [TerminalSPObjAddRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">TerminalSPObjRec</a>	Aggregate	Required	Terminal Service Provider Object Record Aggregate
<a href="#">TerminalSPObjStatusRec</a>	Aggregate	Required	Terminal Service Provider Object Status Record Aggregate
end-xor			
end-block			
end Aggregate			

---

## Terminal Service Provider Object Request Message <TerminalSPObjAdviseRq>

The <TerminalSPObjAdvise> message is used by a Service Provider to inform a Terminal that a change has occurred in the Terminal Service Provider Object. The primary use of the message is to inform a Terminal that service is available/unavailable from the Service Provider. Service is defined as a collection of one or more messages.

If it is not necessary to Advise of changes to the data elements in the <TerminalSPObjInfo> aggregate then the <TerminalSPObjId> and <TerminalSPObjStatus> would be sent in the request. Otherwise, the entire <TerminalSPObjRec> aggregate should be sent.

See the matching response message [TerminalSPObjAdviseRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
begin-xor		Required	
<a href="#">TerminalSPObjRec</a>	Aggregate	Required	Terminal Service Provider Object Record Aggregate
<a href="#">TerminalSPObjStatusRec</a>	Aggregate	Required	Terminal Service Provider Object Status Record Aggregate
end-xor			
end Aggregate			

---

## Terminal Service Provider Object Response Message <TerminalSPObjAdviseRs>

Response to Terminal Service Provider Object Advise request

See the matching request message [TerminalSPObjAdviseRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	

<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">TerminalSPObjRec</a>	Aggregate	Required	Terminal Service Provider Object Record Aggregate
<a href="#">TerminalSPObjStatusRec</a>	Aggregate	Required	Terminal Service Provider Object Status Record Aggregate
end-xor			
end-block			
end Aggregate			

### Terminal Service Provider Object Request Message <TerminalSPObjAudRq>

An IFX client uses this message to audit messages associated with a particular Terminal Service Provider object

See the matching response message [TerminalSPObjAudRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
<a href="#">DtRange</a>	Aggregate	Optional	Date Range
<a href="#">Method</a>	Closed Enum	Optional Repeating	Method  Valid values are limited to: Add, Advise, AuthMod, Can, Del, Mod, StatusMod
<a href="#">TerminalSPObjKeys</a>	Aggregate	Optional Repeating	Terminal Service Provider Object Keys Aggregate
end Aggregate			

---

## Terminal Service Provider Object Response Message <TerminalSPObjAudRs>

Response to Terminal Service Provider Object request

See the matching request message [TerminalSPObjAudRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">TerminalSPObjRsMsg</a>	Aggregate	Optional Repeating	Terminal Service Provider ObjectResponse Message Record Aggregate
end-block			
end Aggregate			

---

## Terminal Service Provider Object Request Message <TerminalSPObjDelRq>

An IFX client uses this message to delete a Terminal Service Provider object

See the matching response message [TerminalSPObjDelRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">TerminalSPObjKeys</a>	Aggregate	Required	Terminal Service Provider Object Keys

			Aggregate
end Aggregate			

---

## Terminal Service Provider Object Response Message <TerminalSPObjDelRs>

Response to a Terminal Service Provider Object Delete Request

See the matching request message [TerminalSPObjDelRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">TerminalSPObjRec</a>	Aggregate	Required	Terminal Service Provider Object Record Aggregate
<a href="#">TerminalSPObjStatusRec</a>	Aggregate	Required	Terminal Service Provider Object Status Record Aggregate
end-xor			
end-block			
end Aggregate			

---

## Terminal Service Provider Object Environment Aggregate <TerminalSPObjEnvr>

Terminal Service Provider Object Environment Aggregate

Extends: [BaseEnvr](#)

Datatype: **Aggregate**

--	--	--	--

Tag	Type	Usage	Description/Context notes
begin Elements from BaseEnvr			
<a href="#">CreatedDt</a>	DateTime	Required	Created Date/Time. The date/time the object was created.
<a href="#">CreateRefIdent</a>	NC-36	Optional	An identifier used to uniquely identify the creation of this object to the system that created the object. This will usually be a link to reference information used in creating the object.
<a href="#">ClientCreateDt</a>	DateTime	Optional	The created date/time as reported by the client. This can vary from the object creation date/time due to time zone differences, communication delays, etc
<a href="#">ClientBusinessDt</a>	DateTime	Optional	The date/time that the client recorded this object for operational purposes. This date/time will often be used to manage the availability of information or funds.
<a href="#">LastUpdateDt</a>	DateTime	Optional	Last update Date/Time. The date/time the object was created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LastUpdateRqUID</a>	UUID	Optional	Last update RqUID. The RqUID from the message that resulted in the object being created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LoginName</a>	C-40	Optional	The login name (or Id) of the individual that authorized this object to be created. This is typically used when the object is created on behalf of its owner by someone who is not normally represented as a Party (i.e., an employee or agent).
<a href="#">PartyKeys</a>	Aggregate	Optional	Reference to the Party that this object is owned by or authorized by.
<a href="#">CardKeys</a>	Aggregate	Optional	This is dependent on Card proposal. Currently this is implemented as the CardLogicalData aggregate.
<a href="#">PassbkKeys</a>	Aggregate	Optional	Currently PassbkAcceptData.
<a href="#">NetworkTrnData</a>	Aggregate	Optional	Network Transaction Information. Identification and location of the terminal from which the message originates.
<a href="#">ServerTerminalSeqNum</a>	NC-36	Optional	Server Terminal Sequence Number. A terminal sequence number generated by the server to identify this object. This number is used in ATM and POS environments to uniquely identify

			transactions (with terminal name and date) for transaction management.
<a href="#">PointOfServiceData</a>	Aggregate	Optional	The Point of Service Data. This aggregate contains information about the environment in which this message originated.
<a href="#">ClientTerminalSeqNum</a>	NC-36	Optional	Client Terminal Sequence Number. A terminal sequence number generated by the client to identify this object. This number is used in ATM, POS, Branch, Call Center and Teller environments to uniquely identify transactions at the client (with terminal name and date). This number is often required when requesting supporting documentation related to a customer transaction.
end Elements from BaseEnvr			
begin Aggregate			
end Aggregate			

---

### Terminal Service Provider Object Identifier <TerminalSPObjId>

Terminal Service Provider Object Identifier

Datatype: **Identifier**

---

### Terminal Service Provider Object Information Aggregate <TerminalSPObjInfo>

Terminal Service Provider Object Information Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Required	Service Provider Name. The name of the Service Provider associated with this Terminal Information aggregate.
<a href="#">TerminalIdent</a>	NC-36	Required	Terminal Identifier. Identification of

			terminal, such as ATM/POS terminal code or terminal number. This terminal identifier is used to uniquely identify the terminal within the context of the acquiring service provider.
end Aggregate			

---

### Terminal Service Provider Object Request Message <TerminalSPObjInqRq>

An IFX client uses this message to retrieve Terminal Service Provider objects.

See the matching response message [TerminalSPObjInqRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">DocCtrlIn</a>	Aggregate	Optional	Document Control Input
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
begin-xor		Optional Repeating	
<a href="#">TerminalSPObjSel</a>	Aggregate	Required	Terminal Service Provider Object Selection Aggregate
<a href="#">RecSelect</a>	IfxPath	Required	Record Select
end-xor			
end Aggregate			

---

### Terminal Service Provider Object Response Message <TerminalSPObjInqRs>

Response to Terminal Service Provider Object Inquiry

See the matching request message [TerminalSPObjInqRq](#)



Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">DocCtrlOut</a>	Aggregate	Optional	Document Control Output
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">TerminalSPObjRec</a>	Aggregate	Required Repeating	Terminal Service Provider Object Record Aggregate
end-block			
end Aggregate			

---

**Terminal Service Provider Object Keys Aggregate**  
**<TerminalSPObjKeys>**

Terminal Service Provider Object Keys Aggregate

Extends: [BaseKeys](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseKeys			
end Elements from BaseKeys			
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
begin-xor		Required	
<a href="#">TerminalSPObjId</a>	Identifier	Required	Terminal Service Provider Object Identifier
end-xor			
end Aggregate			

---

## Terminal Service Provider Object Request Message <TerminalSPObjModRq>

An IFX client uses this message to modify a Terminal Service Provider object.

See the matching response message [TerminalSPObjModRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">TerminalSPObjKeys</a>	Aggregate	Required	Terminal Service Provider Object Keys Aggregate
begin-block		Required Repeating	
<a href="#">TerminalSPObjInfo</a>	Aggregate	Required	Terminal Service Provider Object Information Aggregate
begin-xor		Optional Repeating	
<a href="#">DelElements</a>	lfxPath	Required	An lfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to delete. It is an error if one attempts to delete Required fields.
<a href="#">UpdElements</a>	lfxPath	Required	An lfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to update. The new value of the updated element is in the accompanying xxxInfo aggregate.
<a href="#">NewElements</a>	lfxPath	Required	An lfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to add. The new value of the new elements is in the accompanying xxxInfo aggregate.
end-xor			
end-block			
end Aggregate			

---

## Terminal Service Provider Object Response Message <TerminalSPObjModRs>

## Response to Terminal Service Provider Object Modification Request

See the matching request message [TerminalSPObjModRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">TerminalSPObjRec</a>	Aggregate	Required	Terminal Service Provider Object Record Aggregate
<a href="#">TerminalSPObjStatusRec</a>	Aggregate	Required	Terminal Service Provider Object Status Record Aggregate
end-xor			
end-block			
end Aggregate			

---

## Terminal Service Provider Object Record Aggregate <TerminalSPObjRec>

Terminal Service Provider Object Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">TerminalSPObjId</a>	Identifier	Required	Terminal Service Provider Object Identifier
<a href="#">TerminalSPObjInfo</a>	Aggregate	Required	Terminal Service Provider Object Information Aggregate
<a href="#">TerminalSPObjEnvr</a>	Aggregate	Optional	Terminal Service Provider Object Environment Aggregate
	Aggregate		

<a href="#">TerminalSPObjStatus</a>		Required	Terminal Service Provider Object Status Aggregate
end Aggregate			

---

### Terminal Service Provider Object Reference Aggregate <TerminalSPObjRef>

Terminal Service Provider Object Reference Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">TerminalSPObjKeys</a>	Aggregate	Required	Terminal Service Provider Object Keys Aggregate
<a href="#">TerminalSPObjRec</a>	Aggregate	Required	Terminal Service Provider Object Record Aggregate
<a href="#">TerminalSPObjInfo</a>	Aggregate	Required	Terminal Service Provider Object Information Aggregate
end-xor			
end Aggregate			

---

### Terminal Service Provider ObjectResponse Message Record Aggregate <TerminalSPObjRsMsg>

Terminal Service Provider ObjectResponse Message Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">MsgRecDt</a>	Timestamp	Optional	Audit Record Creation Date
begin-xor		Required	
<a href="#">TerminalSPObjAddRs</a>	Aggregate	Required	Terminal Service Provider Object Add Response

<a href="#">TerminalSPObjModRs</a>	Aggregate	Required	Terminal Service Provider Object Modification Response
<a href="#">TerminalSPObjDelRs</a>	Aggregate	Required	Terminal Service Provider Object Delete Response
<a href="#">TerminalSPObjInqRs</a>	Aggregate	Required	Terminal Service Provider Object Inquiry Response
<a href="#">TerminalSPObjAdviseRs</a>	Aggregate	Required	Terminal Service Provider Object Advise Response
end-xor			
end Aggregate			

---

### Terminal Service Provider Object Selection Aggregate <TerminalSPObjSel>

Terminal Service Provider Object Selection Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required Repeating	
<a href="#">TerminalSPObjKeys</a>	Aggregate	Required	Terminal Service Provider Object Keys Aggregate
end-xor			
end Aggregate			

---

### Terminal Service Provider Object Status Aggregate <TerminalSPObjStatus>

Terminal Service Provider Object Status Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
	Open		

<a href="#">TerminalSPObjStatusCode</a>	Enum	Required	Terminal Service Provider Object Status Code. Valid values include: Deleted, ServiceAvailable, ServiceUnavailable, Valid
<a href="#">StatusDesc</a>	C-255	Optional	Status Description
<a href="#">EffDt</a>	DateTime	Optional	Effective Date Time
<a href="#">StatusModBy</a>	Open Enum	Optional	Status Modified By Valid values include: BPP, BPPSR, BSP, BPSR, CPP, CPPSR, CSP, C PSPSR, Customer, FI, PSP
<a href="#">ExpectedAvailDt</a>	DateTime	Optional	Expected Availability
end Aggregate			

---

**Terminal Service Provider Object Status Code**  
<TerminalSPObjStatusCode>

Current state of the availability of services from this Service Provider to this terminal.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
ServiceAvailable	One or more services are available from the Service Provider. A service is a collection of one or more messages.	N
Valid		N
Deleted		N
ServiceUnavailable	No services are available from the Service Provider. A service is a collection of one or more messages.	N

---

**Terminal Service Provider Object Status Record Aggregate**  
<TerminalSPObjStatusRec>

Terminal Service Provider Object Status Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">TerminalSPObjId</a>	Identifier	Required	Terminal Service Provider Object Identifier
<a href="#">TerminalSPObjStatus</a>	Aggregate	Required	Terminal Service Provider Object Status Aggregate
end Aggregate			

---

**Terminal Type <TerminalType>**

Terminal Type

Datatype: **Open Enum**

**Enumerated Values**

Value	Description	Is default
AdminTerm		N
ATM		N
POS		N
CustomerDevice		N
ECR		N
DialCash		N
TravelerCheckDispenser		N
FuelPump		N
ScripTerm		N
CouponTerm		N
TicketTerm		N
POBTerm		N
Teller		N
Utility		N
Vending		N
Payment		N
VRU		N

---

**Term Units <TermUnits>**

Units in which the Term Deposit is measured.

Datatype: **Closed Enum**

**Enumerated Values**

Value	Description	Is default
Days		N
Weeks		N
Months		N
Years		N
Indefinite	There is no defined end	N

---

**Ticket Number <TicketNumber>**

The number that identifies the travel ticket for the transaction.

Datatype: **C-15**

---

**Tier <Tier>**

Identifies a tier within a tiering structure. Each tier contains a rate which may be based on balance and/or term of deposit/credit account.

Datatype: **C-32**

---

**Tier Amount Type <TierAmtType>**

Identifies the type of amount used in the tier. Examples: principal, advanced amount, approved amount, property valuation, etc.



Datatype: **C-80**

---

### Time At Address <TimeAtAddress>

Extends: [TimeFrame](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from TimeFrame			
<a href="#">StartDt</a>	DateTime	Optional	Start Date
begin-xor		Optional	
<a href="#">EndDt</a>	DateTime	Required	End Date
<a href="#">Duration</a>	Aggregate	Required	Duration
end-xor			
<a href="#">AllDayEvent</a>	Boolean	Optional	All Day Event
<a href="#">RecurRule</a>	Aggregate	Optional Repeating	Defines a rule for events that recur in a specific defined pattern.
<a href="#">RecurException</a>	Aggregate	Optional Repeating	Indicates an exception to the recurrence rule.
end Elements from TimeFrame			
begin Aggregate			
end Aggregate			

---

### Time Frame <TimeFrame>

The timeframe which applies to the parent aggregate.

Extended By: [CreditReviewTimeFrame](#), [EffTimeFrame](#), [ForExValDtTimeFrame](#), [HolidayTimeframe](#), [StmtTimeFrame](#), [TimeAtAddress](#), [ValidityTimeFrame](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes

begin Aggregate			
<a href="#">StartDt</a>	DateTime	Optional	Start Date
begin-xor		Optional	
<a href="#">EndDt</a>	DateTime	Required	End Date
<a href="#">Duration</a>	Aggregate	Required	Duration
end-xor			
<a href="#">AllDayEvent</a>	Boolean	Optional	All Day Event
<a href="#">RecurRule</a>	Aggregate	Optional Repeating	Defines a rule for events that recur in a specific defined pattern.
<a href="#">RecurException</a>	Aggregate	Optional Repeating	Indicates an exception to the recurrence rule.
end Aggregate			

---

### Time Of Day <TimeOfDay>

Specifies time of recurrence.

Datatype: **Time**

---

### TimeRange <TimeRange>

TimeRange

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-or		Required	
<a href="#">StartTime</a>	Time	Required	Start Time
<a href="#">EndTime</a>	Time	Required	End Time
end-or			
end Aggregate			

## To Account Keys <ToAcctKeys>

To Account Keys

Extends: [AcctKeys](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from AcctKeys			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
begin-xor		Required	
<a href="#">AcctId</a>	Identifier	Required	Account Identifier
begin-block		Optional	
begin-xor		Optional	
<a href="#">BBAN</a>	NC-30	Required	Basic Bank Account Identifier
<a href="#">IBAN</a>	NC-34	Required	International Bank Account Number
<a href="#">UPIC</a>	NC-17	Required	Universal Payment Identification Code
<a href="#">CLABE</a>	C-18	Required	CLABE
<a href="#">CardMagData</a>	Aggregate	Required	Card Magnetic Stripe Data
<a href="#">CardKeys</a>	Aggregate	Required	Card Keys Aggregate
<a href="#">CardChipData</a>	Aggregate	Required	Card Chip Data
<a href="#">AcctIdent</a>	Aggregate	Required	Account Identifier Aggregate
end-xor			
<a href="#">AcctType</a>	Aggregate	Optional	Account Type
<a href="#">CurCode</a>	Aggregate	Optional	Currency Code
<a href="#">FIIdentType</a>	Open Enum	Optional	Financial Institution Identifier Type Valid values include: ABA, CHAPS, CHIPS, FedWire, SortCode, SWIFT
<a href="#">FIIdent</a>	NC-34	Optional	Financial Institution Identifier
<a href="#">BranchIdent</a>	NC-22	Optional	Branch Identifier
end-block			
end-xor			
end Elements from AcctKeys			
begin Aggregate			
end Aggregate			

---

## To Account Reference <ToAcctRef>

To Account Reference

Extends:[AcctRef](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from AcctRef			
begin-xor		Required	
<a href="#">AcctKeys</a>	Aggregate	Required	Account Keys Aggregate
<a href="#">AcctRec</a>	Aggregate	Required	Account Record
<a href="#">AcctInfo</a>	Aggregate	Required	Account Information Aggregate
end-xor			
end Elements from AcctRef			
begin Aggregate			
end Aggregate			

---

## Token <Token>

The IFX Specification allows clients to perform synchronization of data with servers using a server-assigned <Token>. This synchronization is performed using synchronization messages, where the client inserts a <Token> it has previously received from the server as an indication of the point in history from which the synchronization should occur. The server must return all messages that are relevant to the type of object being synchronized and have occurred since the <Token> was originally sent to the client. A client may also include <Token>0 in a Sync request, which results in the server returning all known messages of the relevant type.

The "assignor" determines the scope of uniqueness. The scope may either be globally across all customers known to the assignor or specific to a customer.

The server must echo the <Token> in the response and also generate and return a new token <NewToken>, which may be used by the client in the future to specify the current point in history. See the [Audit and Synchronization Messages Section](#) for information regarding

synchronization message definition.

Client should make no assumptions about the value of this token relative to others that it may have received. The token is only significant to the server that originally assigned it. This is a token that has been previously sent by the server, or zero for first-time requests.

Datatype: **NC-1024**

---

### Total Composite Currency Amount <TotalCompositeCurAmt>

A Composite Currency Amount aggregate (either <CompositeCurAmt> or <TotalCompositeCurAmt) contains information about the amount and timing of float availability of funds for a single transaction. This aggregate is also used (usually repeating) where a currency amount identified in a message consists of multiple composites, e.g. a debit message which identifies both the customer requested debit amount plus one or more fees to be debited. The composite currency amount aggregate can also be used within a <DebitAdd> or <ChkAcceptAdd> to charge a fee (e.g. for a printed statement). The <CompositeCurAmtId> is used to identify a specific component of a currency amount in communications between client and server (e.g. to override a specific Fee component). The <TotalCompositeCurAmt> aggregate has the same structure as the <CompositeCurAmt> aggregate, and is used for clarity when the amount specified is a total amount in a transaction where either total amounts or partial amounts may both be used.

Extends: [CompositeCurAmt](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from CompositeCurAmt			
<a href="#">CompositeCurAmtId</a>	NC-36	Optional	Composite Currency Amount Id. Required if the aggregate is repeating within a debit or credit message.
<a href="#">CompositeCurAmtType</a>	Open Enum	Required	Composite Currency Amount Type. Description of Float Category or Currency Amount Type. Defined Values: Immediate, 1DayFloat, 2DayFloat, 3DayFloat, 4DayFloat, 5DayFloat, 6DayFloat, OnePlusDay, TwoPlusDay, ThreePlusDay, Standard, Debit, Credit, ForExFee, StopChkFee, LateFee, TransactionFee, InterchangeFee, Surcharge, StatementFee, Tax, MerchandisePurchase, MerchandiseReturn, CheckFee,

			PmtEnclosed, CashBack, CreditHeld, Bonus, Freight, PurchaseltemTotal.
begin-or		Required	
begin-block		Required	
<a href="#">CurAmt</a>	Aggregate	Required	Currency Amount. When used for float, the fractional amount of the transaction amount assigned to this float category. When used for a fixed amount fee, this is the fixed amount that will be charged. For fees that are calculated as a fixed amount plus a percentage of the transaction, this is the fixed amount and the percentage is in Rate.
<a href="#">ExchangeRate</a>	Aggregate	Optional	Exchange Rate
end-block			
<a href="#">Rate</a>	Decimal	Required	Fee Rate. Usage is a percentage (e.g. a value of 2.5 = 2.5%).
end-or			
<a href="#">MinCurAmt</a>	Aggregate	Optional	Minimum Currency Amount. The minimum amount to charge for this fee.
<a href="#">MaxCurAmt</a>	Aggregate	Optional	Maximum Currency Amount. The maximum amount to charge for this fee.
<a href="#">SpecialHandling</a>	Open Enum	Optional	Special Handling requests. Defined Values: ClientOverride
<a href="#">Memo</a>	C-255	Optional	Memo. Additional information about the transaction (e.g. reason for modifying the fees)
end Elements from CompositeCurAmt			
begin Aggregate			
end Aggregate			

---

### Total Currency Amount <TotalCurAmt>

The sum of the currency value of all items of this type within an aggregate.  
Extends:[CurAmt](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from CurAmt			

<a href="#">Amt</a>	Decimal	Optional	Amount.
<a href="#">CurCode</a>	Aggregate	Optional	Currency Code
end Elements from CurAmt			
begin Aggregate			
end Aggregate			

---

### Total Distance <TotalDistance>

The total distance that the customer drove.

Datatype: **Long**

---

### Total Fee Charge <TotalFeeCharge>

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">Count</a>	Long	Required	Transaction Count. Indicates the number of successfully transacted credit transactions for which the Payee was charged.
<a href="#">CompositeCurAmt</a>	Aggregate	Required	Currency Value Sum. Indicates the total fee charged for successfully transacted payment credit transactions.
end Aggregate			

---

### Total Payment Count <TotalPmtCount>

Origination Date

Datatype: **Long**

---

**Total Tax Collected Indicator <TotalTaxCollectedInd>**

The total sales tax capture and reporting information such as whether sales tax was included in the purchase amount or if goods and services were not taxable.

Datatype: **Boolean**

---

**Transaction Date <TranDt>**

The transaction date.

Datatype: **Date**

---

**Travel Agency Identifier <TravelAgencyIdent>**

The code assigned to the travel agency.

Datatype: **C-36**

---

**Travel Agency Name <TravelAgencyName>**

The name of the travel agency issuing the ticket.

Datatype: **C-40**



---

## Trip Leg <TripLeg>

Provides detailed information about each trip leg of an airline transaction.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">Carrier</a>	C-3	Optional	Carrier
<a href="#">Name</a>	C-40	Optional	Name
<a href="#">ServiceLevel</a>	Open Enum	Optional	Indicates to what segment the customer belongs, and the level of service or the type of pricing that the customer should receive as a result. There is no defined value for this enumeration.  Defined values include: Gold, Silver, Platinum , First Class, Business Class, or Coach.
<a href="#">StopOverInd</a>	Boolean	Optional	Stop Over Indicator
<a href="#">DestAirport</a>	C-5	Optional	Destination Airport
<a href="#">ConjunctionTicket</a>	C-15	Optional	Conjunction Ticket
<a href="#">ExchangeTicket</a>	C-15	Optional	Exchange Ticket
<a href="#">CouponNumber</a>	C-1	Optional	Coupon Number
<a href="#">FareBasis</a>	C-15	Optional	Fare Basis
<a href="#">FlightNumber</a>	C-5	Optional	Flight Number
<a href="#">DepartureDt</a>	Date	Optional	Departure Date
<a href="#">DepartureTime</a>	Time	Optional	Departure Time
<a href="#">DepartureAirport</a>	C-5	Optional	Departure Airport
<a href="#">ArrivalDt</a>	Date	Optional	Arrival Date
<a href="#">ArrivalTime</a>	Time	Optional	Arrival Time
<a href="#">Restriction</a>	C-20	Optional	Restriction
<a href="#">AirlineCharge</a>	Aggregate	Optional Repeating	Airline Charge
end Aggregate			

---

## Track 2 Equivalent Data <Trk2EquivData>

Indicates the Track 2 Data as read from the Integrated Circuit Card (ICC).

The format of this data is according to ISO/IEC 7813 standards, excluding start sentinel, end sentinel, and LRC. It includes the following data elements: Primary account Number (PAN), a variable length numeric character string of up to 19 characters; Field Separator (hex "D" value); Expiration Date in YYMM format, a 4-character numeric string; Service Code, a 3-character string; Discretionary Data (define by individual payment systems), a variable length character string of up to 12 characters; and the last character is "padded" with hex. 'F', if needed to ensure whole bytes.

The data associated with this element is not needed if the Track 2 data already contains this information elsewhere in the transaction message.

Datatype: **HexBin-20**

### Transaction Image <TrnImg>

Transaction Image. A graphical file containing an image of the paper associated with the transaction (e.g., check or sales slip).

Extends: [Binary](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from Binary			
<a href="#">ContentType</a>	Open Enum	Optional	Specified in IETF RFC 2046.
<a href="#">BinLength</a>	Long	Required	Identifies the size of the binary data in number of bytes.
<a href="#">BinData</a>	Raw Binary Data	Required	Binary data.
end Elements from Binary			
begin Aggregate			
end Aggregate			

### Transaction Reference <TrnRef>

Transaction Reference

Extended By: [AcctTrnRef](#), [CreditRef](#), [DebitRef](#)

Datatype: **Abstract Aggregate**

Tag	Type	Usage	Description/Context notes
	begin Aggregate		
	end Aggregate		

---

**Transaction RqUID <TrnRqUID>**

Transaction RqUID. This can be used in a DebitAdd message to associate a fee with a transaction. If a debit is used as a fee for a transaction (e.g. fee for a balance inquiry) then this element will contain the RqUID of the transaction (e.g. the balance inquiry).

Datatype: **UUID**

---

**Transaction Source <TrnSrc>**

Indicates the transaction source for which this feature is supported. This is used to indicate transactions supported by transaction source

Datatype: **Open Enum**

**Enumerated Values**

Value	Description	Is default
ATM	Automated Teller Machine	N
Teller	Financial Institution Teller (in person)	N
POS	Point of Sale	N
VRU	Voice Response Unit	N
HomeBank	Home Banking	N
ACH	Automated Clearing House	N
All		Y

---

**Transaction Sub-Type <TrnSubType>**

Transaction Sub Type further defines the transaction.

Datatype: **C-15**

---

### Transaction Type <TrnType>

The <TrnType> aggregate is used to express the transaction types.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">TrnTypeValue</a>	Open Enum	Optional	Transaction Type Value  Valid values include: Adjustment, Advance, Credit, Debit, Deposit, Disburse, Dividend, Fee, Interest, Payment, Purchase, Redeem, Return, Sell, Tax, Transfer, Withdrawal
<a href="#">TrnTypeSource</a>	Open Enum	Optional	Transaction Type Source  Valid values include: BAI, IFX, ISO8583:1993, ISO8583:2003, TMA  Default Value: IFX
end Aggregate			

---

### Transaction Type Source <TrnTypeSource>

Transaction Type Source

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
BAI		N
TMA		N
ISO8583:2003		N

ISO8583:1993		N
IFX		Y

---

### Transaction Type Value <TrnTypeValue>

Transaction Type Value

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
Adjustment	adjustment	N
Advance		N
Credit	generic credit	N
Debit	generic debit	N
Deposit	deposit	N
Dispurse		N
Dividend	dividend	N
Fee	fee	N
Interest	interest earned (+) or paid (-)	N
Payment	electronic payment	N
Purchase		N
Redeem		N
Return		N
Sell		N
Tax		N
Transfer	transfer	N
Withdrawal	withdrawal	N

---

### Truncated Check Indicator <TruncatedInd>

Truncated Check Indicator.

Datatype: **Boolean**

---

### Ultimate Creditor Data <UltimateCreditorData>

Party that is ultimately receiving the payment; end beneficiary, if different than the Creditor.

Extends: [CreditorData](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from CreditorData			
<a href="#">PartyData</a>	Abstract Aggregate	Optional Repeating	Party information. <b>Valid Aggregates are:</b> OrgData PersonData
<a href="#">CreditorAcctNumWithDebtor</a>	NC-36	Optional	Aka AcctPayAcctIdent; Accounts Payable or similar identifier assigned to this creditor in the debtor's accounting system.
end Elements from CreditorData			
begin Aggregate			
end Aggregate			

---

### Ultimate Debtor Data <UltimateDebtorData>

Party that is ultimately responsible for the payment, if different than the Debtor. May vary at the credit level, i.e. one debtor may be paying from their account on behalf of several parties; the ultimate debtor would be indicated for each credit.

Extends: [DebtorData](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from DebtorData			
<a href="#">PartyData</a>	Abstract Aggregate	Required	Party information. <b>Valid Aggregates are:</b> OrgData PersonData
<a href="#">DebtorAcctNumWithCreditor</a>	NC-36	Optional	Accounts Receivable or similar identifier assigned to this debtor/payer/customer in the

			creditor/payee's accounting system.
end Elements from DebtorData			
begin Aggregate			
end Aggregate			

---

### Unit <Unit>

Unit

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
Seconds		N
Minutes		N
Hours		N
Days		N
Weeks		N
Months		N
Years		N

---

### Update Elements <UpdElements>

An IfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to update. The new value of the updated element is in the accompanying xxxInfo aggregate.

Datatype: **IfxPath**

---

### Update Date Time <UpDt>

The date-time value when an associated item was last known to be updated. Meaning depends on context.

Datatype: **Timestamp**

---

### Universal Payment Identification Code <UPIC>

Refer to UPIC® website for details.

Datatype: **NC-17**

---

### USA ACH Profile <USA.ACHProf>

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">DaysWith</a>	Long	Required	Number of Days Before Withdrawal. Number of days before processing date that funds are withdrawn.
<a href="#">DfltDaysToPay</a>	Long	Required	Default Days to Pay.
<a href="#">CanWind</a>	Long	Required	Cancellation Window - Refers to number of days after a transfer is initiated using ACH during which the transfer may be cancelled.
end Aggregate			

---

### USA Tax Identification Certification <USA.TaxIdCert>

Certification Aggregate is used for supplying certification information for a US Government tax identification number.

Datatype: **Aggregate**



Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">USA.TaxIdCertCode</a>	Open Enum	Optional	USA TaxId Certification Code  Valid values include: AccountOpenBefore1984, AccountOpened1984-1987, AccountOpenedAfter1987, Certified, CertNotOnFile, CertNotRequired, CertOnFile, IRSMandatedWithholding, Notice1, Notice2, Uncertified
<a href="#">USA.TaxIdCertDate</a>	Date	Optional	USA TaxId Certification Date
end Aggregate			

---

### USA TaxId Certification Code <USA.TaxIdCertCode>

Certification Code for a tax identification number.

Datatype: **Open Enum**

### Enumerated Values

Value	Description	Is default
CertNotOnFile		N
CertOnFile		N
AccountOpenedAfter1987		N
AccountOpened1984-1987		N
AccountOpenBefore1984		N
Certified		N
Uncertified		N
Notice1		N
Notice2		N
CertNotRequired		N
IRSMandatedWithholding		N

---

### USA TaxId Certification Date <USA.TaxIdCertDate>

The date that the party signed the certification form OR the date that the

government issued a non-certification.

Datatype: **Date**

---

### **UTC Offset <UTCOffset>**

Universal Coordinate Time Offset. Offset from UTC in minutes.

Datatype: **Long**

---

### **Validate Account Indicator <ValidateAcctInd>**

Validate Account Indicator is used to indicate that a StdPayee requires that the payer's account with payee must be validated prior to sending payments

Datatype: **Boolean**

---

### **Validate Account Method <ValidateAcctMthd>**

Used in conjunction with ValidateAcctInd, this describes the method to be used to validate the payer's account with the payee.

Datatype: **Open Enum**

## **Enumerated Values**

Value	Description	Is default
PreNote	Pre-noting is the transmission of a zero dollar message to verify consumer information, usually the payee account information.	N
FormatOnly	Only the format of the account number must be validated.	N
Other	Specific method of validation is not declared.	Y

---

**Valid From Date <ValidFromDt>**

Valid From Date

Datatype: **DateTime**

---

**Validity Time Frame <ValidityTimeFrame>**

The timeframe that a particular Locator has been used for. This is particularly relevant when Locator is a postal address.

Extends: [TimeFrame](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from TimeFrame			
<a href="#">StartDt</a>	DateTime	Optional	Start Date
begin-xor		Optional	
<a href="#">EndDt</a>	DateTime	Required	End Date
<a href="#">Duration</a>	Aggregate	Required	Duration
end-xor			
<a href="#">AllDayEvent</a>	Boolean	Optional	All Day Event
<a href="#">RecurRule</a>	Aggregate	Optional Repeating	Defines a rule for events that recur in a specific defined pattern.
<a href="#">RecurException</a>	Aggregate	Optional Repeating	Indicates an exception to the recurrence rule.
end Elements from TimeFrame			
begin Aggregate			
end Aggregate			

---

**Value <Value>**

The string representation of the data value of an element.

Datatype: **C-256**

---

### Vehicle Insurance Indicator <VehicleInsuranceInd>

An indicator of whether the customer purchased insurance.

Datatype: **Boolean**

---

### Vehicle Rental Addenda <VehicleRentalAddenda>

Provides detailed information about vehicle rental transactions.

Extends: [CardAddenda](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from CardAddenda			
end Elements from CardAddenda			
begin Aggregate			
<a href="#">RentalAgreement</a>	C-32	Optional	Rental Agreement
<a href="#">RenterName</a>	C-40	Optional	Renter Name
<a href="#">RentalAgencyName</a>	C-40	Optional	Rental Agency Name
<a href="#">PickupCity</a>	C-32	Optional	Pickup City
<a href="#">PickupStateProv</a>	C-32	Optional	Pickup State/Province
<a href="#">PickupRegion</a>	C-32	Optional	Pickup Region
<a href="#">PickupCountry</a>	Aggregate	Optional	Pickup Country
<a href="#">PickupLoc</a>	C-40	Optional	Pickup Location
<a href="#">PickupDt</a>	Date	Optional	Pickup Date
<a href="#">PickupTime</a>	Time	Optional	Pickup Time
<a href="#">ReturnCity</a>	C-32	Optional	Return City
<a href="#">ReturnStateProv</a>	C-32	Optional	Return State/Province
<a href="#">ReturnRegion</a>	C-32	Optional	Return Region
	Aggregate		

<a href="#">ReturnCountry</a>		Optional	Return Country
<a href="#">ReturnLoc</a>	C-40	Optional	Return Location
<a href="#">ReturnDt</a>	Date	Optional	Return Date
<a href="#">ReturnTime</a>	Time	Optional	Return Time
<a href="#">CSPhoneNum</a>	Phone Number	Optional	Card (customer) service phone number
<a href="#">RentalRateDuration</a>	C-1	Optional	Rental Rate Duration
<a href="#">TotalDistance</a>	Long	Optional	Total Distance
<a href="#">MaxFreeDistance</a>	Long	Optional	Maximum Free Distance
<a href="#">DistanceUnit</a>	Open Enum	Optional	Distance Unit Valid values include: Kilometers, Miles
<a href="#">VehicleInsuranceInd</a>	Boolean	Optional	Vehicle Insurance Indicator
<a href="#">RentalAuditAdjInd</a>	Boolean	Optional	Rental Audit Adjustment Indicator
<a href="#">RentalProgram</a>	C-20	Optional	Rental Program
<a href="#">TotalTaxCollectedInd</a>	Boolean	Optional	Total Tax Collected Indicator
<a href="#">CommodityCategory</a>	C-15	Optional	Commodity Category
<a href="#">TaxExemptInd</a>	Boolean	Optional	Tax Exempt Indicator
<a href="#">CorporateIdent</a>	C-12	Optional	Corporate Identifier
<a href="#">DaysRented</a>	Long	Optional	Days Rented
<a href="#">NoShowInd</a>	Boolean	Optional	No Show Indicator
<a href="#">RentalClass</a>	C-15	Optional	Rental Class
<a href="#">RentalCharge</a>	Aggregate	Optional Repeating	Rental Charge
end Aggregate			

---

### Vendor Product Identification <VendorProductIdent>

Vendor specific identification information used to identify the card product being ordered.

Datatype: **C-255**

---

Version <Version>

The version of the object or item. Version is often formatted as a date.

Datatype: **NC-12**

---

### **Billers View Detail Preference <ViewDtIPref>**

Indicates biller preference that customer view the detail of the bill. Bill detail is available through the <URL> specified within the <StmImage> aggregate.

Datatype: **Open Enum**

### **Enumerated Values**

Value	Description	Is default
None		N
Preferred		N

---

### **Voucher Code <VoucherTypIdent>**

Indicates the voucher apron type included with the order.

Datatype: **NC-36**

---

### **Waive Fee Indicator <WaiveFeeInd>**

Indicates if fee is waived .

Datatype: **Boolean**

---

**Waiver Reason <WaiverReason>**

The reason the fee is being waived.

Datatype: **C-40**

---

**Web Enrollment URL <WebEnrollURL>**

Web URL to start Enrollment Process in lieu of using the <CustAddRq> message.

Datatype: **URL**

---

**Write Off Amount <WriteOffAmt>**

The amount of the disputed amount that is written off by the financial institution.

Extends: [CurAmt](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from CurAmt			
<a href="#">Amt</a>	Decimal	Optional	Amount.
<a href="#">CurCode</a>	Aggregate	Optional	Currency Code
end Elements from CurAmt			
begin Aggregate			
end Aggregate			

---

**Write Off Date <WriteOffDt>**

The date on which the disputed amount is written off by the financial

institution.

Datatype: **Date**

---

**Account WriteOff Reason <WriteOffReason>**

Reason for requesting account write-off

Datatype: **C-80**

---

**Account WriteOff Responsible Party <WriteOffRespParty>**

Identifies the party responsible for requesting the account write-off

Datatype: **C-80**

---

**Funds Transfer Request Message <XferAddRq>**

Funds Transfer Add message. Allows a client to request an immediate or schedule a future transfer of funds.

See the matching response message [XferAddRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">XferInfo</a>	Aggregate	Required	Funds Transfer Information Aggregate
end Aggregate			



---

## Funds Transfer Response Message <XferAddRs>

Funds Transfer Add message. Allows a client to request an immediate or schedule a future transfer of funds.

See the matching request message [XferAddRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">XferRec</a>	Aggregate	Required	Funds Transfer Record Aggregate
<a href="#">XferStatusRec</a>	Aggregate	Required	Funds Transfer Status Record Aggregate
end-xor			
end-block			
end Aggregate			

---

## Funds Transfer Request Message <XferAdviseRq>

Transfer Advise Message.

See the matching response message [XferAdviseRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header

begin-xor		Required	
<a href="#">XferRec</a>	Aggregate	Required	Funds Transfer Record Aggregate
<a href="#">XferStatusRec</a>	Aggregate	Required	Funds Transfer Status Record Aggregate
end-xor			
end Aggregate			

---

### Funds Transfer Response Message <XferAdviseRs>

Transfer Advise Message.

See the matching request message [XferAdviseRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">XferRec</a>	Aggregate	Required	Funds Transfer Record Aggregate
<a href="#">XferStatusRec</a>	Aggregate	Required	Funds Transfer Status Record Aggregate
end-xor			
end-block			
end Aggregate			

---

### Funds Transfer Request Message <XferAudRq>

Funds Transfer Audit message. Allows a client to play back the transfer messages associated with the current customer since some past point in time.

See the matching response message [XferAudRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
<a href="#">DtRange</a>	Aggregate	Optional	Date Range
<a href="#">Method</a>	Closed Enum	Optional Repeating	Method  Valid values are limited to: Add, Advise, AuthMod, Can, Del, Mod, StatusMod
<a href="#">XferKeys</a>	Aggregate	Optional Repeating	Funds Transfer Keys Aggregate
end Aggregate			

**Funds Transfer Response Message <XferAudRs>**

Funds Transfer Audit message. Allows a client to play back the transfer messages associated with the current customer since some past point in time.

See the matching request message [XferAudRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">XferRsMsg</a>	Aggregate	Optional Repeating	Funds TransferResponse Message Record Aggregate
end-block			
end Aggregate			

---

## Funds Transfer Request Message <XferCanRq>

Funds Transfer Cancel message. Allows a client to cancel a pending transfer.

See the matching response message [XferCanRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">XferKeys</a>	Aggregate	Required	Funds Transfer Keys Aggregate
end Aggregate			

---

## Funds Transfer Response Message <XferCanRs>

Funds Transfer Cancel message. Allows a client to cancel a pending transfer.

See the matching request message [XferCanRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">XferRec</a>	Aggregate	Required	Funds Transfer Record Aggregate
	Aggregate		

<a href="#">XferStatusRec</a>		Required	Funds Transfer Status Record Aggregate
end-xor			
end-block			
end Aggregate			

## Funds Transfer Environment Aggregate <XferEnvr>

Funds Transfer Environment Aggregate

Extends: [BaseEnvr](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseEnvr			
<a href="#">CreatedDt</a>	DateTime	Required	Created Date/Time. The date/time the object was created.
<a href="#">CreateRefIdent</a>	NC-36	Optional	An identifier used to uniquely identify the creation of this object to the system that created the object. This will usually be a link to reference information used in creating the object.
<a href="#">ClientCreateDt</a>	DateTime	Optional	The created date/time as reported by the client. This can vary from the object creation date/time due to time zone differences, communication delays, etc
<a href="#">ClientBusinessDt</a>	DateTime	Optional	The date/time that the client recorded this object for operational purposes. This date/time will often be used to manage the availability of information or funds.
<a href="#">LastUpdateDt</a>	DateTime	Optional	Last update Date/Time. The date/time the object was created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LastUpdateRqUID</a>	UUID	Optional	Last update RqUID. The RqUID from the message that resulted in th object being created or modified. This field is intended to support optimistic concurrency implementations (provided on an inq and verified on a mod).
<a href="#">LoginName</a>	C-40	Optional	The login name (or Id) of the individual that authorized this object to be created. This is typically used when

			the object is created on behalf of its owner by someone who is not normally represented as a Party (i.e., an employee or agent).
<a href="#">PartyKeys</a>	Aggregate	Optional	Reference to the Party that this object is owned by or authorized by.
<a href="#">CardKeys</a>	Aggregate	Optional	This is dependent on Card proposal. Currently this is implemented as the CardLogicalData aggregate.
<a href="#">PassbkKeys</a>	Aggregate	Optional	Currently PassbkAcceptData.
<a href="#">NetworkTrnData</a>	Aggregate	Optional	Network Transaction Information. Identification and location of the terminal from which the message originates.
<a href="#">ServerTerminalSeqNum</a>	NC-36	Optional	Server Terminal Sequence Number. A terminal sequence number generated by the server to identify this object. This number is used in ATM and POS environments to uniquely identify transactions (with terminal name and date) for transaction management.
<a href="#">PointOfServiceData</a>	Aggregate	Optional	The Point of Service Data. This aggregate contains information about the environment in which this message originated.
<a href="#">ClientTerminalSeqNum</a>	NC-36	Optional	Client Terminal Sequence Number. A terminal sequence number generated by the client to identify this object. This number is used in ATM, POS, Branch, Call Center and Teller environments to uniquely identify transactions at the client (with terminal name and date). This number is often required when requesting supporting documentation related to a customer transaction.
end Elements from BaseEnvr			
begin Aggregate			
end Aggregate			

---

### Funds Transfer Identifier <XferId>

Funds Transfer Identifier

Datatype: **Identifier**

---

## Funds Transfer Information Aggregate <XferInfo>

The XferInfo aggregate contains the details of a Funds Transfer.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">FromAcctRef</a>	Aggregate	Optional	From Account Reference
<a href="#">ToAcctRef</a>	Aggregate	Optional	To Account Reference
<a href="#">CurAmt</a>	Aggregate	Required	Currency Amount.
<a href="#">DueDt</a>	Date	Optional	Due Date. If not specified, the transfer is to be scheduled as soon as possible.
<a href="#">Category</a>	C-40	Optional	Category for this message, modified by the client.
<a href="#">ExpediteInd</a>	Boolean	Optional	Immediate Transfer Indicator. If set to True, the transfer should be executed immediately, and not at end of day. Subject to support in Service Profile.
<a href="#">RecurXferKeys</a>	Aggregate	Optional	This is a reference to a RecurXfer model object if this instance was created from a recurring model.
<a href="#">ForExDealRef</a>	Aggregate	Optional	Foreign Exchange Deal Status Reference Aggregate
<a href="#">RefData</a>	Aggregate	Optional Repeating	Reference Information Aggregate. Identification information, used to correlate to transactions provided in bank statements.
end Aggregate			

---

## Funds Transfer Request Message <XferInqRq>

Funds Transfer Inquiry. Allows clients to retrieve information on previously placed funds transfers.

See the matching response message [XferInqRs](#)

Datatype: **Aggregate**

---

--	--	--	--

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">DocCtrlIn</a>	Aggregate	Optional	Document Control Input
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
begin-xor		Optional Repeating	
<a href="#">XferSel</a>	Aggregate	Required	Funds Transfer Selection Aggregate
<a href="#">RecSelect</a>	IfxPath	Required	Record Select
end-xor			
end Aggregate			

---

### Funds Transfer Response Message <XferInqRs>

Funds Transfer Inquiry. Allows clients to retrieve information on previously placed funds transfers.

See the matching request message [XferInqRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">DocCtrlOut</a>	Aggregate	Optional	Document Control Output
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">XferRec</a>	Aggregate	Required Repeating	Funds Transfer Record Aggregate
end-block			
end Aggregate			



---

## Funds Transfer Keys Aggregate <XferKeys>

Funds Transfer Keys Aggregate

Extends: [BaseKeys](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Elements from BaseKeys			
end Elements from BaseKeys			
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
begin-xor		Required	
<a href="#">XferId</a>	Identifier	Required	Funds Transfer Identifier
end-xor			
end Aggregate			

---

## Funds Transfer Request Message <XferModRq>

Funds Transfer Modify message. Allows a client to modify a pending transfer.

See the matching response message [XferModRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">XferKeys</a>	Aggregate	Required	Funds Transfer Keys Aggregate
begin-block		Required Repeating	
<a href="#">XferInfo</a>	Aggregate	Required	Funds Transfer Information Aggregate
begin-xor		Optional Repeating	

<a href="#">DelElements</a>	IfxPath	Required	An IfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to delete. It is an error if one attempts to delete Required fields.
<a href="#">UpdElements</a>	IfxPath	Required	An IfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to update. The new value of the updated element is in the accompanying xxxInfo aggregate.
<a href="#">NewElements</a>	IfxPath	Required	An IfxPath (relative to a base of this IFX object's Info aggregate) which indicates which element to add. The new value of the new elements is in the accompanying xxxInfo aggregate.
end-xor			
end-block			
end Aggregate			

### Funds Transfer Response Message <XferModRs>

Funds Transfer Modify message. Allows a client to modify a pending transfer.

See the matching request message [XferModRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
begin-xor		Required	
<a href="#">XferRec</a>	Aggregate	Required	Funds Transfer Record Aggregate
<a href="#">XferStatusRec</a>	Aggregate	Required	Funds Transfer Status Record Aggregate
end-xor			
end-block			
end Aggregate			

---

### Transfer Payee <XferPayee>

The <XferPayee> aggregate is used to provide complete information about a Transfer Payee. Used in Pmt messages when a payee is identified as a Funds Transfer payee, which only requires a reference to the transfer account.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">ToAcctRef</a>	Aggregate	Required	To Account Reference
end Aggregate			

---

### Transfer Profile <XferProf>

The Transfer Profile Aggregate is used to convey information on the transfer.

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">OptSupt</a>	Open Enum	Optional Repeating	Options Supported.  Defined values: ForEx, ImmediateXfer, RecCtrl, RecFinalAmt, ReclnitialAmt, RecModelNickname, Skip, SchedXfer.
<a href="#">PrcSched</a>	Aggregate	Optional	Processing Schedule Aggregate. If omitted, the default processing schedule is assumed.
<a href="#">RecurXferProf</a>	Aggregate	Optional	Recurring Transfer Profile Aggregate.
end Aggregate			

---

### Funds Transfer Record Aggregate <XferRec>

## Funds Transfer Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">XferId</a>	Identifier	Required	Funds Transfer Identifier
<a href="#">XferInfo</a>	Aggregate	Required	Funds Transfer Information Aggregate
<a href="#">XferEnvr</a>	Aggregate	Optional	Funds Transfer Environment Aggregate
<a href="#">XferStatus</a>	Aggregate	Required	Funds Transfer Status Aggregate
end Aggregate			

---

## Funds Transfer Reference Aggregate <XferRef>

Funds Transfer Reference Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	
<a href="#">XferKeys</a>	Aggregate	Required	Funds Transfer Keys Aggregate
<a href="#">XferRec</a>	Aggregate	Required	Funds Transfer Record Aggregate
<a href="#">XferInfo</a>	Aggregate	Required	Funds Transfer Information Aggregate
end-xor			
end Aggregate			

---

## Funds Transfer Request Message <XferRevRq>

See the matching response message [XferRevRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RevReasonCode</a>	Aggregate	Required	Reversal Reason Code
<a href="#">Desc</a>	C-80	Optional	Description
<a href="#">XferRqMsg</a>	Aggregate	Required	Funds Transfer Request Message Record Aggregate
end Aggregate			

---

**Funds Transfer Response Message <XferRevRs>**

See the matching request message [XferRevRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
end Aggregate			

---

**Funds Transfer Request Message Record Aggregate <XferRqMsg>**

Funds Transfer Request Message Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required	

<a href="#">XferAddRq</a>	Aggregate	Required	Funds Transfer Add Request
<a href="#">XferModRq</a>	Aggregate	Required	Funds Transfer Modify Request
<a href="#">XferCanRq</a>	Aggregate	Required	Funds Transfer Cancel Request
<a href="#">XferInqRq</a>	Aggregate	Required	Funds Transfer Inquiry Request
<a href="#">XferAdviseRq</a>	Aggregate	Required	Funds Transfer Advise Request
<a href="#">XferAudRq</a>	Aggregate	Required	Funds Transfer Audit Request
<a href="#">XferSyncRq</a>	Aggregate	Required	Funds Transfer Sync Request
<a href="#">XferStatusModRq</a>	Aggregate	Required	Funds Transfer Status Modify Request
<a href="#">RevRqUID</a>	UUID	Required	Reversal Request Unique ID
end-xor			
end Aggregate			

---

### Funds TransferResponse Message Record Aggregate <XferRsMsg>

Funds TransferResponse Message Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">MsgRecDt</a>	Timestamp	Optional	Audit Record Creation Date
begin-xor		Required	
<a href="#">XferAddRs</a>	Aggregate	Required	Funds Transfer Add Response
<a href="#">XferModRs</a>	Aggregate	Required	Funds Transfer Modify Response
<a href="#">XferCanRs</a>	Aggregate	Required	Funds Transfer Cancel Response
<a href="#">XferRevRs</a>	Aggregate	Required	Funds Transfer Reversal Response
<a href="#">XferInqRs</a>	Aggregate	Required	Funds Transfer Inquiry Response
<a href="#">XferAdviseRs</a>	Aggregate	Required	Funds Transfer Advise Response
<a href="#">XferStatusModRs</a>	Aggregate	Required	Funds Transfer Status Modify Response
end-xor			
end Aggregate			

---

## Funds Transfer Selection Aggregate <XferSel>

Funds Transfer Selection Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-xor		Required Repeating	
<a href="#">XferKeys</a>	Aggregate	Required	Funds Transfer Keys Aggregate
end-xor			
end Aggregate			

---

## Funds Transfer Status Aggregate <XferStatus>

Funds Transfer Status Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">XferStatusCode</a>	Open Enum	Required	Transfer Processing Status Code  Valid values include: Cancelled, Cleared, Deleted, Failed, FIHeld, Held, Posted, Processed, RejClosed, Rejected, RejInactive, RejNoFund, Returned, Scheduled, Skipped, Valid
<a href="#">StatusDesc</a>	C-255	Optional	Status Description
<a href="#">EffDt</a>	DateTime	Optional	Effective Date Time
<a href="#">StatusModBy</a>	Open Enum	Optional	Status Modified By  Valid values include: BPP, BPPSR, BSP, BPSR, CPP, CPPSR, CSP, CSPSR, Customer, FI, PSP
<a href="#">StatusReason</a>	C-80	Optional	Status Reason
end Aggregate			

---

## Funds Transfer Status Code <XferStatusCode>

This identifies the payment or transfer processing status.

Datatype: **Open Enum**

## Enumerated Values

Value	Description	Is default
Scheduled	The requested action (e.g., transfer) has been scheduled.	N
Cancelled	The requested action was deleted by a customer or a CSR, either through a cancel request (e.g., <XferCanRq>), or by modifying or deleting the recurring model that generated the action (e.g., transfer).	N
FIHeld	The transfer was held by the customer's FI and rescheduled, typically for the next processing day.	N
RejNoFund	The requested action was rejected by the customer's FI. The customer's Available Balance for the account specified as the funding account was too low to cover the payment amount.	N
RejInactive	The requested action was rejected by the customer's FI. The funding account specified in the payment is inactive. Definition of inactive is a business rule of the customer's FI.	N
RejClosed	The requested action was rejected by the customer's FI. The funding account specified in the transfer has been closed.	N
Returned	The FI or SP (e.g., banking provider) processed the transfer, but it was returned by a processing agent (e.g., transfer) or the recipient.	N
Failed	The FI or SP (e.g., banking provider) attempted to process the action requested (e.g., transfer) and failed. No additional information is available. May include data integrity problems.	N
Processed	The FI or SP (e.g., banking provider) has processed the requested action (e.g., issued the transfer).	N
Posted	The FI or SP has posted the result of the requested action (e.g., transfer) against the account	N
Cleared	The transfer has cleared.	N
Skipped	The transfer was skipped.	N
Rejected	The transfer has been rejected	N
Held	The transfer has been held	N
Valid		N
Deleted		N

---

## Funds Transfer Request Message <XferStatusModRq>

Funds Transfer Status Modify message. Allows a client to request modification of the status of a transfer or recurring transfer model.

See the matching response message [XferStatusModRs](#)



Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">XferKeys</a>	Aggregate	Required	Funds Transfer Keys Aggregate
<a href="#">XferStatus</a>	Aggregate	Required	Funds Transfer Status Aggregate
end Aggregate			

---

**Funds Transfer Response Message <XferStatusModRs>**

Funds Transfer Status Modify message. Allows a client to request modification of the status of a transfer or recurring transfer model.

See the matching request message [XferStatusModRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">XferStatusRec</a>	Aggregate	Required	Funds Transfer Status Record Aggregate
end-block			
end Aggregate			

---

**Funds Transfer Status Record Aggregate <XferStatusRec>**

Funds Transfer Status Record Aggregate

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">SvcIdent</a>	Aggregate	Optional	Service Identifier
<a href="#">XferId</a>	Identifier	Required	Funds Transfer Identifier
<a href="#">XferStatus</a>	Aggregate	Required	Funds Transfer Status Aggregate
end Aggregate			

---

**Funds Transfer Request Message <XferSyncRq>**

Funds Transfer Synchronization message. Allows a client to play back the Transfer messages associated with the current customer since some past point in time based on the <Token> provided in the request.

See the matching response message [XferSyncRs](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRqHdr</a>	Aggregate	Optional	Message Request Header
<a href="#">RecCtrlIn</a>	Aggregate	Optional	Records Control Input
<a href="#">XferKeys</a>	Aggregate	Optional Repeating	Funds Transfer Keys Aggregate
end Aggregate			

---

**Funds Transfer Response Message <XferSyncRs>**

Funds Transfer Synchronization message. Allows a client to play back the Transfer messages associated with the current customer since some past point in time based on the <Token> provided in the request.

See the matching request message [XferSyncRq](#)

Datatype: **Aggregate**

Tag	Type	Usage	Description/Context notes
begin Aggregate			
begin-block		Required	
<a href="#">Status</a>	Aggregate	Optional	Response Status
<a href="#">RqUID</a>	UUID	Required	Request Identifier
<a href="#">MsgRsHdr</a>	Aggregate	Optional	Message Response Header
end-block			
begin-block		Optional	required if message is successful
<a href="#">RecCtrlOut</a>	Aggregate	Optional	Records Control Output
<a href="#">XferRsMsg</a>	Aggregate	Optional Repeating	Funds TransferResponse Message Record Aggregate
end-block			
end Aggregate			

### 13 — Response Status Codes

The following tables provide the complete set of valid Response Status codes defined for the Response Status Aggregate <[Status](#)>, along with conditions that may cause the Response Status to be sent.

Default text is provided in the <Desc> field, which is intended to be human-readable. The service provider may return this default text to the client, or may replace it with custom text that is more specific or translated into the appropriate language. The client may display the text it receives from the service provider, or may replace it with custom text that is more specific or translated into the appropriate language. The <StatusCode> and <Severity> elements are used by the system and must be included as they appear in the table.

Negative <StatusCode> values (values less than zero) may be used for custom conditions. Clients receiving negative values for <StatusCode> with <Severity> Warn or Info must treat the response as if it were <StatusCode> 0 (Success). Clients receiving negative values for <StatusCode> with <Severity> Error must treat the response as if it were <StatusCode> 100 (General Error).

#### Returned by all messages

Status Code	Severity	Description (Default Text)	Condition
0	Info	Success	The service provider successfully processed the request.

5	Warn	Honor with identification	The service provider has successfully processed the request; however, it is suggesting (warning) the acquirer to verify/validate the cardholder/customer's identification.
6	Info	Approved (VIP)	The service provider has successfully processed the request; however, it is informing the acquirer about the "VIP" status of the cardholder/customer.
7	Warn	Approved, update track 3	The service provider has successfully processed the request; however, it is suggesting (warning) the acquirer to update the "Track 3" data on the card (if it can). The entire string of the updated Track 3 data is typically returned by the Customer Service Provider (CSP) in <MagData3> element of <CardMagData> aggregate in the response messages that contain this aggregate.
8	Warn	Approved, account type specified by issuer	The service provider has successfully processed the request; however, it is warning the acquirer that the account type in the response was specified by the transaction authorizer/issuer because the original request didn't specify it (it might have been specified as "Default" or "Unknown").
9	Warn	Approved for partial amount, account type specified by issuer	The service provider has successfully processed the request; however, it is warning the acquirer that the request was approved for the lesser amount than it was originally specified, and also the account type in the response was specified by the transaction authorizer/issuer because the original request didn't specify it (it might have been specified as "Default" or "Unknown").
10	Error	Additional action needed.	Acknowledgement of server warning or exception is needed. Additional credentials with authority to override server

			exception is needed.
100	Error	General Error	There was an error that prevented the service provider from processing the transaction. No additional information is provided.
200	Error	General Data Error	One or more of the elements in the request is either invalid or is inconsistent with other elements. No additional information is available.
300	Error	System Not Available	The service provider for this transaction is not available due to a technical problem. Try again later
400	Error	Function Not Available	The function selected is not available. Other functions may be available.
500	Error	Unsupported Service	The service provider does not support the specified service offering.
600	Error	Unsupported Message	The server does not support the message.
700	Error	Unsupported Function	The server does not support one or more functions within the request.
750	Error	Unsupported Value	The server does not support the value given. It may be a valid value but is not supported by the server.
900	Warn	Message Accepted for Asynchronous Processing	The message was accepted for future processing.
910	Error	Asynchronous Request Does Not Match Original Request	The message does not match the message referenced by the <AsyncRqUID>.
920	Error	Expiration Date Passed	The availability date for the asynchronous response has passed. The response is no longer available.
1000	Error	Duplicate <RqUID>	A request with this client message identifier <RqUID> has already been received and processed.
1030	Error	Value Out Of Range	The value is not within the acceptable range.
1040	Warn	Request Declined	The Service Provider has declined your request (e.g., a no pay was received for a payment or a credit limit change request was declined).

1045	Error	Request Denied	The Service Provider has denied your request. The transaction failed.
1070	Error	Invalid Format	The format of the value is invalid per the BMS or is invalid per an agreement between sender and receiver.
1090	Error	Invalid Value	The value is not valid for the particular element.
1724	Error	Acknowledgement of server warning or exception is required to process message.	Server needs acknowledgement from user that exception or warning has been noticed.
1726	Error	Error due to overrideable exception(s) included in AdditionalStatus.	Server has returned errors that can be overridden with the proper credentials (authorized user).
1910	Error	Must Change Password	The customer must change his or her password before any other messages will be allowed.
2365	Error	Request denied due to Account Status	The request could not be processed due to the account status.
2395	Error	Party not permitted to perform request on account.	Party PartyId not permitted to perform request on account AcctId.
2550	Error	No sharing arrangements between the terminal owner and card issuer.	The transaction was denied because the terminal owner does not have a sharing relationship with the card issuer. This is an added level of ability to deny an on-us and not on-us transaction by the transaction authorizer.
2800	Warn	EMV Transaction Downgraded by Issuer	The service provider has processed the request; however, it is warning the acquirer that the issuer could not execute EMV specific processing and processed the transaction as non-EMV transaction.
2810	Error	EMV Fallback Declined	A transaction initiated with an ICC card was sent as non-EMV transaction due to a problem with the card or with the EMV processing at the IFX client (fallback situation). The issuer declined the fallback transaction.
2820	Error	General EMV	The service provider declined due

		Failure	to a general EMV related processing error. Depending on the configured policy the IFX client can try to send a fallback request or directly tell the card holder that the request was declined.
2830	Error	Missing EMV Tags in EMV Request Raw Data	The service provider declined because EMV data elements required for processing the EMV transaction were not present in the IFX element <EMVRqRawData>.
3060	Error	Usage Limit Exceeded	The number of transactions of this type exceeds a predefined limit over a given time period.
3270	Error	Changing a xxxRef in a linking object is not permitted.	Attempting to change one of the linked objects. This should be accomplished through a xxxDel and xxxAdd.
3721	Error	Changing a xxxRef in a linking object is not permitted.	Attempting to change one of the linked objects. This should be accomplished through a xxxDel and xxxAdd.
3800	Error	Message Authentication Error	The message authentication code (MAC) value is not correct.
3920	Error	Required request for Fee Missing	Client sent a request message where the required request for Fee should have been included.
3930	Error	Associated message failed	This request failed because of the failure of an associated message. Please check the <StatusCode> in the associated message.
4000	Warn	Capture Card	Server requested identification device capture. This request could be made for cause (i.e., lost or stolen card) or as part of normal operations (i.e., single use card, stored value card with no remaining value, etc.)
4090	Error	Card Verify Error Denied	Card Verification Data not present or incorrect, card not accepted.
5100	Error	Party not related to Card	Invalid Party to Card Relationship combination.
6000	Error	Terminal Not Configured	The server received a Terminal Id that it did not recognize. In other words, the server received a Terminal Id in the message that it does not have any knowledge of.
6010	Error	Do Not Honor	Host is asking the terminal not to honor the consumer's requested

			transaction.
6020	Error	Restricted Card	Card entered for the transaction request is recognized by the CSP or host as a "restricted" card, i.e., only a limited set of transactions are allowed with this card. E.g., Deposits and/or Balance Inquiry, but not Withdrawals and/or Transfers.
6030	Error	Call Acquirer's Security Dept.	Authorization system is suggesting the cardholder and/or card-acquirer to contact the acquirer's security department.
6040	Error	Lost Card	A card that has been reported lost was used in this transaction.
6050	Error	Refer To Card Issuer	The cardholder is advised to contact the card issuer financial institution.
6060	Error	Refer To Card Issuer's Special Conditions	Authorization system is suggesting the cardholder and/or card-acquirer to refer to the card issuer's "special conditions".
6090	Error	Unacceptable Fee	The ATM and/or acquirer has imposed a fee that is not acceptable to the authorizer.
6100	Error	Message Not Permitted From Terminal	The cardholder has requested a message (the entire message) that is not supported from this terminal.
6110	Error	Violation of Law	A violation of applicable law was detected.
6120	Error	Card Not Effective/Activated	The card used is not effective or activated.
6154	Warn	PIN Change Requested	The request has been approved but the Service Provider has requested that the customer change his or her PIN.
6155	Error	Must Change PIN	The request has been declined because the customer must first change his or her PIN.
6160	Error	Third Party Vendor Not Found	Third party customer/vendor for the transaction was not found.
6170	Error	Third Party Vendor Account Invalid	Third party customer/vendor account is invalid.
6180	Error	Customer Service Provider Not Supported	Transaction acquirer (CSP) not found.
6190	Error	Invalid Acquirer Data	Invalid Acquirer Data
6310	Error	Function Not	"The service provider cannot



		Available To User	provide the requested function to the user. This function may be available to other users. This will be typically used in ATM networks where the authorization system has detected the card used in the transaction request as a "foreign" card, not issued by the authorizer. The authorizer has recognized this card as one issued by a financial institution that the authorizer has a "switch" relationship (not-on-us card) and the interchange to the issuer does not support the function requested. An example could be the Service Account Inquiry Response (SvcAcctlng) message, where the authorizer has detected the card as a "not-on-us". So, based on this status code, the ATM client can issue the subsequent transaction (typically, a Withdrawal) knowing that the issuer cannot provide the "account list", but it can route the transaction to a switch for processing. "
6380	Error	Posting Session is not available.	The Posting Session is not available for the teller or operator to perform transactions against.
6410	Error	Duplicate Value	The value sent causes a duplicate value on the server for an element that should be unique. This could occur when a PartyAddRq is sent with a social security number of a Party existing on the server.
6411	Error	Feature not supported.	Attempt to use IFXPath with a server that does not support this

### Returned by most Messages

Status Code	Severity	Description (Default Text)	Condition
1010	Error	The <Cursor> returned within <RecCtrlIn> is invalid or has expired	The suggested action is to resend the original message, omitting the cursor, to restart the sequence of messages required to retrieve all of the records.
1020	Error	Required Element Not Included	The request message does not contain one or more required elements. This response may be

			generated because of elements required either by the IFX Standard (required fields) or by a particular implementation or application (optional but necessary).
1110	Info	Records Control Active	Records control is being used in the response, and RecCtrlOut is present in the response.
1380	Error	<SPName> within <CustId> is invalid	The Service Provider Name specified within a customer identification aggregate is invalid.
1790	Error	OBO is not active for this <CustId>	The currently logged-in customer does not have the authority to act on behalf of another user.
1800	Error	Service not Enabled	The customer has not enabled the service with the service provider.

### Returned only as indicated in Message documentation

Status Code	Severity	Description (Default Text)	Condition
1	Info	Client Up to Date	The client's indicator (i.e., date-time or token) of last update in the request is equal to the server's indicator of last update processed.
800	Error	Object Already Committed	The object cannot be modified or canceled because it has already been committed for processing.
810	Error	Message Cannot Be Reversed	The server is unable to reverse the requested message.
1050	Error	Invalid Enum Value	Customer input of an Enum value is not valid. The condition may echo the element name in error or the value input by the Customer.
1060	Error	Cannot Modify Element	The service provider does not allow modifications to one or more elements in a modification request.
1080	Warn	No Changes Made	No changes have been made. The requested change in a <xxxModRq> matched the existing data on the server.
1100	Warn	Too Many Records Requested	The request has asked for more records than the service provider can satisfy. The

			quantity that the service provider can satisfy has been provided.
1120	Info	No Records Match Selection Criteria	No records match the selection criteria of the request.
1140	Warn	Some Selection Criteria Not Supported	The server does not support one or more of the selection criterion fields in the request. Records returned based on only those supported.
1160	Error	None of Selection Criteria Supported	The server supports none of the selection criterion fields specified in the request. No records returned.
1180	Error	Token Value Prior to Available History	The client has sent a token that precedes the history currently available. The client must do an inquiry to resync.
1200	Error	Invalid Token	The token is not of the valid format. Used when the client may edit the token format.
1220	Error	Invalid Identifier	The reference identifier used is invalid.
1240	Warn	Detail Not Available	Detail for this item is not available at this time.
1260	Error	Unknown Object ID	The specified object ID does not exist.
1280	Warn	Object already exists.	The object that the client requested to add already exists. (e.g., the specified service is already activated for the customer or customer account, or customer is already enrolled.)
1290	Error	A duplicate Card Preference association already exists between the presented card and the selected business function.	Preference was invalid because a duplicate association between CardLogicalData and CardPrefType already exists. The operation is not allowed.
1300	Warn	Object not deleted; dependent objects exist	The object was not deleted because dependent objects exist, and the client did not request a cascading delete.
1310	Error	Cascade Delete Failed	The object was not deleted because the dependent objects could not be deleted at this time.
1320	Error	Object exists, but does	The object exists but does not

		not match <CustId>.	match the <CustId>. Customer is not authorized to act.
1361	Error	Service Provider Reference is invalid or unknown	Same.
1400	Error	<SPName> within <BillerId> is invalid.	The Service Provider Name specified within a biller identification aggregate is invalid.
1421	Error	Party reference is invalid.	
1480	Error	Edit Mask Error	The value specified does not match the edit mask.
1500	Error	Invalid Address	The specified address is incorrect.
1641	Error	Invalid Svc reference	
1700	Error	Security Violation	A security violation has occurred.
1720	Info	Customer Login ID And Password Will Be Sent Out-Of-Band	The service provider will send the customer Login ID and password through postal mail, e-mail, or some other means.
1740	Error	Authentication Failed	The customer could not be authenticated due to an incorrect login ID or password.
1760	Error	Authorization Failure	Customer is not eligible to perform this function
1820	Error	Customer Session Already In Progress	The service provider supports only one session at a time per customer and there is already an active session for this <CustId>. Please try again later.
1840	Error	No Customer Session In Progress	The specified customer does not have a session in progress.
1860	Error	Immediate Customer Lock Out	The customer identity for the current session is suspect. End any active sessions.
1880	Error	Customer Locked Out	The service provider has received too many failed authentication attempts for this customer or has detected other suspicious activity. Please call the technical support telephone number.
1881	Error	Party locked out	The service provider has received too many failed authentication attempts for this

			party or has detected other suspicious activity. Please call the technical support telephone number.
1900	Warn	Password Change Required	The Logon is successful but the customer must enter a new password before any other messages will be allowed.
1920	Error	Invalid New Customer Identifier	The new customer ID entered is not valid because it does not meet edit criteria.
1970	Error	Invalid New password	The new password entered as part of a <CustPswdModRq> is invalid.
2020	Error	Amount Too Small	The amount entered is too small (e.g., less than the minimum required). Please enter a larger amount.
2030	Error	Amount Too Large	The amount entered is too large (e.g., exceeds the limit for this transaction). Please enter a smaller amount.
2050	Error	Amount is Not an Allowed Value	The amount is within the allowable range, but does not conform to the rules for this transaction. For example, for a Cash Advance transaction, the requested amount is not incremented by the multiples (s) of the standard increment amount agreed upon, up to the credit limit.
2080	Error	Final Amount Exceeds Limit	The service provider has established a maximum value for the amount of the final transfer or payment, which has been exceeded.
2120	Error	Invalid DateTime Range	The date range specified is invalid because the low date exceeds the high date.
2130	Error	Date Passed	The date entered is in the past. Please enter a valid date.
2140	Error	DateTime Too Soon	The specified date and time is too near; enter a later date and time.
2150	Error	DateTime Too Far In Future	The specified date and time is too far in the future. Reenter an earlier date.

2160	Error	Processing Date Precedes Today	The processing date required to meet the due date <DueDt> entered would be earlier than today.
2170	Warn	Requested Date Adjusted	The Service Provider successfully processed the request, but the date requested has been adjusted.
2180	Error	Request Is Too Late For Today's Work	The customer has asked to schedule a transfer or payment for today but the cutoff time for today's work has passed.
2190	Error	Weekend Or Holiday	The date entered is a weekend or holiday. The date cannot be adjusted.
2200	Warn	History Not Available for Full Date Range	History is not available for the full date range specified. All transactions that were available were returned.
2210	Warn	Account Balance Information Not Available	One or more account balances for the selected account is currently unavailable.
2220	Warn	Extended Account Balance Information Not Available	One or more extended account balances for the selected account is currently unavailable.
2320	Error	Account not for Party	The account does not correspond to the Party.
2350	Error	Account Closed.	The account has been closed.
2370	Error	Source And Destination Accounts Are Identical	A transfer that indicates that the source and destination accounts are the same is invalid.
2380	Error	Account Not Authorized	The requested action is not permitted on the account.
2381	Error	This party is not authorized for this account.	If both the account and the party are valid, the party is not identified with the account.
2400	Error	Account Not Available	The account requested is not available for transaction processing at this time.
2401	Error	Account not available	The account indicated in the request is not available.
2420	Error	Single or Source Account Not Eligible For Transaction	This single or source account is not authorized for this particular transaction.
2421	Error	Account not eligible for	Same

		this transaction	
2441	Error	Account type is invalide for this transaction	Same
2490	Error	Invalid <BankInfo>	The information contained within <BankInfo> is either invalid or insufficient to unambiguously identify the single or source bank.
2500	Error	Invalid Industry Id	The specified industry number is not valid for the Organization identifier.
2510	Error	Invalid Card Magnetic Strip Data	The card magnetic strip data provided is either incorrect or incomplete.
2520	Error	Unrecognized / Invalid Card Issuer	The card track data has been analyzed and found to be valid. The primary account number (PAN) has been extracted and the Issuer ID obtained from the PAN. The switch/server does not know how to route the transaction since it does not recognize the issuer ID (e.g. trying to use a Bank of Scotland debit card in the US). The most likely result would be for the ATM to return the card to the user after displaying a message such as "This ATM does not accept cards from your financial institution".
2530	Error	Unrecognized Card Number	The card track data has been analyzed and found to be valid. The PAN has been extracted from the card, the issuer is known and the transaction routed to the issuer. However the issuer cannot find this PAN on its database. This card is from an institution known to the ATM owner, but the card number is invalid. The most likely result would be for the ATM to capture this card (especially if the card was issued by the ATM owner).
2540	Error	Stolen Card	The card has been registered as stolen, and is therefore invalid as either an authentication mechanism for

			transactions or an identifier for one or more accounts.
2600	Error	Invalid Check Number Range	The specified check number range is invalid.
2610	Error	Request Is Too Late - Check has been paid	The customer has requested a Stop Payment on a check that has already cleared the bank and settled.
2620	Error	Check Number Not Found	The specified check number could not be found.
2640	Warn	Stop Check In Process	Stop Check is already in process.
2660	Error	Too Many Checks To Process	The check range specified in <StopChkAddRq> is too large for the service provider to handle.
2680	Error	Check Book Style Not Available	The specified checkbook style is not currently available. Please choose another style
2700	Error	Invalid Number Of Checks	The number of checks specified is not valid for the specified checkbook style.
2720	Error	Foreign Exchange not supported	The currency code on both accounts involved in a transfer must be the same as the currency code of the input amount, unless ForEx is specified in <OptSupt>.
2740	Error	Invalid Currency Code	The specified currency code is not valid in ISO 4217.
2780	Error	Unsupported Frequency	The specified frequency is not supported for this message.
2900	Error	Duplicate Payment/Transfer Exists	The customer has attempted to schedule a payment/transfer that matches a previously entered payment/transfer (i.e., the day, amount and merchant or to account are the same). The client may resubmit using <DupChkOverride> = True, if the payment or transfer is not a duplicate.
2910	Error	Duplicate Recurring Model	The customer has attempted to schedule a recurring model that matches a previously entered model. The client may resubmit using <DupChkOverride> = True, if the model is not a duplicate.



2920	Error	Invalid skip count	The number of transfers or payments specified to skip exceeds the number of transfers or payments remaining for this recurring model.
2940	Error	Insufficient Funds	The service provider cannot process the transaction because the specified account does not have sufficient funds.
3000	Error	Number of Transfers Exceeds Limit	The number of transfers allowed for a monthly or statement cycle has been exceeded.
3020	Error	Daily Transfer Limit Exceeded	Total transfers for today exceed maximum allowable for one day.
3040	Error	Transfer Payment Greater Than Loan Balance	A transfer to a loan account (a payment) is declined because the loan payoff is less than the transfer amount.
3050	Warn	Authorized Amount Changed	The amount authorized for the transaction is different from that originally requested
3052	Warn	Withdrawal or Cash Back Amount Reduced to Maximum Allowed	"Either the requested withdrawal or cash back (if present) amount in the transaction request exceeds the currently allowable limit. However, the transaction was approved with a reduced, but maximum allowed, amount. This reduced amount is present in the transaction response message. Upon receiving this 'warning' response, the client could offer a choice to the consumer, informing him/her about the reduced amount from the response message, and giving a choice to either accept or deny/reject the transaction. "
3070	Warn	Changed Fee	The Fees required are different from those send in the request
3080	Error	Withdrawal Limit Exceeded	The amount the customer wishes to withdraw exceeds the withdrawal limit
3090	Error	No Fee Override Authorization	Client is not authorized to override the fee.

3100	Error	Invalid <BillerId>	The biller identifier specified could not be found or is invalid.
3120	Error	Invalid <StdPayeeId>	The standard payee identifier could not be found or was invalid.
3140	Error	Invalid Customer Payee ID	The specified Customer Payee ID <CustPayeeId> does not exist or no longer exists.
3180	Error	Invalid Payee Name	The name specified for the payee was incorrect or incomplete.
3200	Error	Payee List Full	The payee list is currently full. To add a payee, first delete an existing payee.
3240	Error	Invalid Customer Account With Payee	The pay account <PayAcct> specified by the user is invalid.
3260	Error	Payee Type Not Supported	This service provider does not support the payee type requested.
3300	Error	Number Of Payments Invalid	The number of payments entered is invalid. Please re-enter the number of payments.
3320	Error	Total Payment Amounts Scheduled For Today Exceeded Daily Limit	The sum of all payment amounts scheduled for today exceeds the daily limit (either at the SP or customer level).
3380	Error	Expired Card	The card specified has expired.
3400	Warn	Recurring Model Open-Ended	No final date or number of instances has been specified for the recurring model; it has been added as open-ended.
3500	Warn	Data Changed or Truncated	The server is responding with a warning that the <xxxRec> in the response is not identical to the data provided in the request. Rather, the data has been changed en route to storage.
3520	Error	Currencies don't match	The currencies of the amounts (e.g. in <SelRangeCurAmt>) are not the same.
3560	Error	Card Account ID Matches Multiple Accounts	The account cannot be uniquely identified based on the information provided by the Card Account Identifier.
3580	Error	Authorization is	The Pay Provider is indicating

		rejected	that the payment has been rejected by the Customer Payment Provider
3600	Info	Authorization held over	The Pay provider is indicating that a payment has held over (typically for next day payment) by the CPP
3610	Error	Authorization is declined for insufficient funds.	The financial institution has declined the payment authorization because the specified account does not have sufficient funds.
3620	Error	Authorization is declined for inactive account.	The financial institution has declined the payment authorization because the specified account is inactive.
3630	Error	Authorization is declined for closed account.	The financial institution has declined the payment authorization because the specified account is closed.
3640	Error	Authorization is declined for other reason.	The financial institution has declined the payment authorization for another reason. Customer should contact the FI for specific reason.
3650	Error	Cash deposit limit exceeded.	The amount the customer wishes to deposit exceeds the cash deposit limit.
3700	Error	Object Type Not Supported	Client does not support indicated Security Object Type
3730	Error	Key Storage Space not available	Storage space not available for key
3740	Error	Invalid Certificate	Certificate failed validation
3750	Error	Revoked Certificate	Certificate on Certificate Authorities revocation
3760	Error	Party not related to account	Invalid Party to Account Relationship combination.
3761	Error	Party is not related to account	Same
3770	Warn	New Tax Responsible Party not Certified, Action Successful	Non-Certified Warn Indicator is set for Product, therefore, "New Tax Responsible Party not Certified, Action Successful" warning message is returned.
3780	Error	Delete would result in an invalid customer to account relationship	Delete would result in an invalid customer to account relationship

3810	Error	<SPRefId> not recognized	The <SPRefID> is not recognized so cannot be used to process the request (<ForExDealAddRq>) or interpret the response (<ForExDealAddRs>).
3820	Error	<ForExDealId> not recognized	The <ForExDealId> provided for action (Inquire, Modify, Cancel, Audit, etc.) is not recognized.
3830	Error	<CurAmt> does not equal prior <CurAmt>	The <CurAmt> reported in the <ForExDealAddRq> does not match the <CurAmt> of the prior rate inquiry response (<ForExRateInqRs>).
3840	Error	<CurCode> does not equal prior <CurCode>	The <CurCode> reported in the deal request (<ForExDealAddRq>) does not match the CurCode of the prior rate inquiry (<ForExRateInqRs>).
3850	Error	Combination of CurAmt and CurCode do not match the <SPRefId>	The combination of <CurAmt> and <CurCode> reported in the deal request (<ForExDealAddRq>) does not match the combination of <CurAmt> and <CurCode> of the prior rate inquiry response (<ForExRateInqRs>).
3860	Error	Deal expired	The offer for the deal add requested has expired.
3870	Warn	No <ForExRateDealType> provided.	The <ForExRateDealType> has not been provided.
3880	Info	Remote Key Load Pending	Device is currently in a state that does not allow it to initiate the Remote Key Load process. Remote Key Load Process will be initiated at a future point in time.
3890	Error	Remote Key Load not supported	Device does not support Remote Key Load
3950	Error	Signature Check Failed	Signature calculated using <SecSigID> does not match signature in <SecObjValue>
3960	Error	Stop payment match.	Stop payment match on serial number or amount.
3970	Error	Check already accepted.	The check was already accepted and is a duplicate on account.

3980	Error	Cash back exceeds total amount deposited	The cash back amount is greater than the total amount of cash and checks deposited.
3990	Warn	Read only data ignored	The request message contained data deemed to be non-modifiable (read only) by the server. Changes to the non-modifiable fields were ignored.
4040	Error	Address Not Validated	Customer Address could not be validated, retry.
4050	Error	Address Verify Not Supported	Customer Address verification is not supported by server.
4070	Info	Address Validated Successfully	Customer Address and Postal Code match expected values.
4080	Warn	Card Verify Error Accepted	Card Verification Data not present or incorrect, card accepted.
5000	Warn	Card Verify Failure Accepted	Card Verification could not be completed because the track data is incomplete, card accepted.
5010	Warn	Card Verify Failure Referred	Card Verification could not be completed because the track data is incomplete, accept card with manual verification or identification. This code can only be returned if it originates at an acceptor operated device (i.e., POS, Teller, etc.).
5020	Error	Card Verify Failure Denied	Card Verification could not be completed because the track data is incomplete, card not accepted.
5030	Warn	Card Ineligible For Verify	Card Verification could not be performed because the card is not encoded with verification data. Card accepted.
5040	Info	Prompt Customer to save current transaction information as a Card Preference for this transaction type	The Server is indicating to the client application that if supported, the client application should prompt if the customer would like to have the details of the current transaction saved as a Card Preference for this transaction type. Note that if the customer accepts, the IFX Client must send the appropriate CardPref messages in order to create/modify this preference.

5110	Error	Invalid Relationship Type for Product.	Relationship Type is not appropriate for the product of the Card (ex: Additional).
5130	Error	Card not related to account	Invalid Card to Account Relationship combination.
6130	Error	Invalid PIN Block	The (encrypted) PIN block data is invalid. This response code is different from the "Authentication Failed", where the cardholder's PIN/User or Logon Id/Password is wrong. In this case (Invalid PIN Block), the response indicate some sort of mechanical failure in formatting the PIN block (e.g., Invalid PIN pad character, or hex vs. BASE64 encryption, etc.)
6140	Error	PIN Length Error	PIN length used for this transaction is incorrect.
6145	Error	New PIN Unsafe	The service provider declined the PIN Change because the new PIN is seen as an unsafe choice. The IFX client can ask the card holder to enter a different (better) PIN.
6150	Error	PIN Key Sync Error	A PIN Encryption Key synchronization error was detected. A server/authorizer might return this response status code when it detects a pre-established number of "Invalid PIN" errors, or any similar pre-established PIN-related error conditions.
6210	Warn	Full Statement Requested, Mini Statement Could Be Provided	Although the cardholder has requested the full statement, but the statement data doesn't warrant a full statement. Only limited data is available for mini statement, and the customer should be asked whether to continue (fee implications). A mini-statement could be provided, instead.
6220	Error	No Statement Data Available	The requested statement data is not available.
6300	Info	Admin/Supervisory Card Entered	The authorization system has detected an Administrative/Supervisory card in the transaction

			request. It is assumed that the ATM has requested to switch into "Admin. or Supervisory" mode. This status code will be returned by any IFX response messages where a server receives the card number from a client, and the server/authorizer detects the card to be an "Administrative" card type (mainly the Signon response message).
6330	Warn	Cash Back Amt Not Approved, Original Credit or Debit Amt was Approved	The "CashBack" amount in the transaction could not be authorized, but the original credit or debit amount in the same transaction was successfully authorized. Therefore, the "CashBack" amount has been changes in the response record (XxxRec) to a "zero" value.
6340	Warn	A Portion of the Requested Deposit Amount was Held by the Authorizer	The deposit transaction was authorized with a "warning" because the authorizing entity has withheld a portion of the originally requested deposit amount. The amount withheld is included in the response message, which will not be available until the time period also indicated in the response message.
6350	Error	Posting session cannot be back-dated.	The teller or operator is not authorized to perform backdated transactions.
6360	Error	Posting session cannot be future-dated.	The teller or operator is not authorized to perform future-dated transactions.
6370	Error	Posting Session Location invalid	The Posting Session location is invalid or the teller does not have security to perform transactions on behalf of the session location
6390	Error	Posting Session totals do not meet Close Final criteria	The Posting Session totals do not meet the criteria of the server to allow the close final to proceed.
6400	Error	Posting Session Location error	The Posting Session has already been opened at a different location.

6440	Warn	PayOff calculation performed; warning automatic payment pending	PayOff calculation amount returned; however may be reduced when pending automatic payment posts.
6500	Error	Expired Purchase Service Provider Account	The data supplied in the CustId aggregate was recognized as a known id but the corresponding purchase account has expired.
6510	Error	Maximum Pre-Paid Account Balance Exceeded	The purchase service provider has established a maximum value for the pre-paid account balance, which has been exceeded.