# Mail.XML 12.0A Technical Specification

# Data Distribution

## December 19, 2014

**Prepared by**

**United States Postal Service**

## Release Version Support

This document contains information pertaining to Mail.XML release version 12.0A and the following USPS *PostalOne!* Releases:

- Release 37 January 2014
- Release 38 August 2014
- Release 39 November 2014
- Release 40 January 2015

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# DOCUMENT CHANGE HISTORY

The change history of previous versions is in the Change History Archive in Section 8.

**Data Distribution, Mail.XML 12.0A for Release 19 (January 2015) Edition 3 Change 1**

| Date | Section | Title | Description |
|---|---|---|---|
| 12/16/14 | 1 | N/A | Corrected grammar in sections 1.1 and 1.6 |
| 12/16/14 | 1.7 | Roadmap of Mail.XML | Removed unneeded column in table 1-2 & updated table intro |
| 12/16/14 | 1.14 | *PostalOne!* WSDL Information | Removed string-typed WSDL example (no longer supported) |
| 12/16/14 | 1.15.1 | Full-Service Feedback Messages Workflow | Corrected grammar |
| 12/16/14 | 2.1 | Full-Service Data Feedback Overview | Corrected “MicroStrategy” spelling/capitalization |
| 12/16/14 | Various | N/A | Clarified description of MessageSerialNumber throughout (multiple references) |
| 12/16/14 | 4.7 | ByForConflictQueryRequest | Corrected typo (“validates”) |
| 12/16/14 | 6.1 | simpleType: actionCodeType | Corrected double heading in table |

**Data Distribution, Mail.XML 12.0A for Release 19 (January 2015) Edition 3 Change 0**

| Date | Section | Title | Description |
|---|---|---|---|
| 12/9/14 | Various | N/A | Updated cover page & footer to reflect current version and publication date. |
| 12/9/14 | Various | N/A | Corrected grammatical & typographical errors |
| 12/9/14 | 3 | Message Choreography for Data Distribution | Corrected style of heading to correctly show this section in the TOC and enable correct numbering of subsequent sections; updated TOC & Index |


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# 1. Postal Service Mail.XML Technical Specification

## 1.1 Program Overview

The *PostalOne!* system is an electronic suite of services developed for business mailers by the United States Postal Service to improve the mailing process. The system takes advantage of the advances in technology and leverages them to continuously improve and simplify the mailing experience.

Customers can electronically send detailed information to the *PostalOne!* system using the mailing industry's standardized Mail.XML™ format. Mail.XML is an XML-based IDEAlliance specification for web services. Web services use simple HTTP and HTTPS protocols to communicate data over the Internet, bypassing technology-specific restrictions and avoiding network-related security rules. See the IDEAlliance Mail.XML specifications at http://www.idealliance.org

All business functions supported by the USPS as part of the Mail.XML implementation are based on SOA (Services Oriented Architecture). This architecture enables a mailer's software to manage the data transactions to query, create, update, and cancel various data sets representing business functions and subscription model. Additionally, mailers' software is able to receive synchronous and asynchronous transactions through Web Services protocol from the USPS in support of the just-in-time communication architecture.

The Postal Service's implementation of Mail.XML complements Mail.dat. Mailers using Mail.dat can continue to use it as a database, but can use Mail.XML for communication and automation of business-to- business processing. Mail.XML allows business function-specific communication and faster change management processes with little to no impact to other service providers. For example, you can add optional fields or new messages without requiring software in the mailing supply chain to change.

Mail.XML allows the support of electronic documentation and end-to-end mailing supply chain business process management for a multitude of business processes, including qualification reports, container and bundle reports, spoilage, eInduction, containerization nesting, postage statements, postage adjustments, postage status query information, piece detail, piece ranging, and many other business process related communications. Mail.XML also provides the ability to electronically access USPS full-service data and to perform business functions related to full-service. Mail.XML supports copalletization, mixed mailing, manifest mailing, and business processes specific to MLOCR and continuous mailing environments.

One fundamental difference between the Mail.dat files and Mail.XML messages is the information content. For example, for qualification reports and postage statements Mail.dat calculates from the raw data in several Mail.dat files, the copies and pieces at each price level in the qualification report and the postage statements. This sometimes leads to rounding differences as compared to qualification reports and postage statements calculated by the mailer using the same Mail.dat file. In Mail.XML, the mailer provides the numbers of copies and pieces for each price level directly and there are fewer rounding errors.

For each release, the Postal Service Mail.XML Technical Specification is documented by subject matter into the following volumes:

- Postal Service Mail.XML Technical Specification for Postage Payment & Reporting (eDoc)
- Postal Service Mail.XML Technical Specification for Appointment Scheduling (FAST)
- Postal Service Mail.XML Technical Specification for Profiles & Full-Service Feedback (MID-CRID)
- Postal Service Mail.XML Technical Specification for Full-Service Data Distribution (DD)

## 1.2 Mail.XML 12.0A

MailPieceScanVisibility messages have been renamed to shorten the name as follows:

- MPSVisNotifcation
- MPSVisDelivery
- MPSVisQueryRequest
- MPSVisQueryResponse

**Support Mailer SubmitterTrackingID on MailXML 12.0A Messages**

**Business Requirements**

Mail.XML 12.0A messages support 'SubmitterTrackingID' on MailXML request message. The value is set by the mailer and the *PostalOne!* system will make use of this to identify the duplicate requests, avoid processing the duplicate


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messages submitted. The sections given below provide more details on Mail.XML Service Layer and target applications processing 'SubmitterTrackingID'.

**Business Rules/ Assumptions**

1. Mailers provide a SubmitterTrackingID as part of their request messages.
2. SubmitterTrackingID is introduced in Mail.XML 12.0 and is currently required in Mail.XML 12.0A specification.
3. The *PostalOne!* system will use the SubmitterTrackingID (required) to ensure that Mailer's requests were processed one time only by Mail.XML and target applications.
4. Mailer must provide a unique combination of SubmitterTrackingID/MessageName for 45 days in order to support these requirements.
5. The *PostalOne!* system will use the combination of UserID/SubmitterTrackingID/ MessageName to identify duplicate requests from the Mailers. Please note that the business requirements call for 48 hours but we recommend 45 days to be consistent with other Full Service uniqueness requirements.
6. The *PostalOne!* applications will include the SubmitterTrackingID (required) in Mail.XML responses and error messages.
7. The *PostalOne!* applications generate responses or error messages for all Mail.XML requests.
8. The *PostalOne!* applications will use the following elements to identify and handle duplicate requests:
    a. UserID
    b. MessageName
    c. TrackingID (Mail.XML app assigns this)
    d. SubmitterTrackingID (required)
    e. RequestReceived DateTime (Mail.XML app assigns this)
9. Duplicate messages will be identified for mailers with the SubmitterTrackingIDs provided in their requests.
10. If no response was received from the target application for a given request during the 48-hour window, the request will be considered obsolete and no response will be provided using MessageResponseRetrievalResponse (MRRR). An error message will be provided back to the Mailer in the MRRR response as shown in the example below.

**MailXML 12.0A Example MRRR:**


```
<mailxml:MessageResponseRetrievalResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://idealliance.org/Specs/mailxml12.0a/mailxml mailxml_12.0a.xsd "
xmlns:mailxml="http://idealliance.org/Specs/mailxml12.0a/mailxml"
xmlns:mailxml_base="http://idealliance.org/Specs/mailxml12.0a/base"
xmlns:mailxml_defs="http://idealliance.org/Specs/mailxml12.0a/mailxml_defs">

<mailxml:MessageResponseRetrievalReject mailxml:TrackingID="5400000000000000001">

<mailxml:ReturnInfo>

<mailxml_defs:ReturnCode>1510</mailxml_defs:ReturnCode>

<mailxml_defs:ReturnDescription>The TrackingID provided in the MRRR request was processed by Mail.XML application
on mm/dd/yyyy hh:mm:ss. No response was received by Mail.XML from the target application. Please re-submit a new
request or contact the HelpDesk for more investigation to the issue preventing the target application from generating the
response</mailxml_defs:ReturnDescription>

</mailxml:ReturnInfo>

</mailxml:MessageResponseRetrievalReject>

</mailxml:MessageResponseRetrievalResponse>
```


**Duplicate Request Scenarios**

**Scenario 1:**

Mailer sends original request followed by another identical request. While Mail.XML is processing the duplicate request, the response is available for the original request.


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1. Mailer sends the first request with a unique SubmitterTrackingID.
2. Mail.XML application receives the request, captures the information below and routes the request to the target application for processing
    a. UserID
    b. MessageName
    c. TrackingID (Mail.XML app assigns this)
    d. SubmitterTrackingID (assigned by the Mailer)
    e. RequestReceived DateTime (Mail.XML app assigns this)
3. Mailer sends the second request with the same SubmitterTrackingID.
4. MailXML application checks the request, assigns TrackingID and performs validation for the duplicate message.
5. If it is a duplicate message Mail.XML will not forward the request to the target application. An error message will be generated by the Mail.XML application and returned back to the mailer as follows:

    "Duplicate submitter ID. This Mail.XML request for *MessageName* with SubmitterTrackingID *Number* was not processed by Mail.XML application because an identical request was received on *Day Date Time* and was assigned TrackingID of *Number.*"
6. Mailer uses MRRR message with TrackingID *Number* to retrieve the responses.

**Scenario 1 Mail.XML 12.0A Example:**


```
<?xml version="1.0" encoding="UTF-8"?>
<mailxml:Fault xmlns:mailxml="http://idealliance.org/Specs/mailxml12.0a/mailxml"
xmlns:mailxml_base="http://idealliance.org/Specs/mailxml12.0a/base"
xmlns:mailxml_defs="http://idealliance.org/Specs/mailxml12.0a/mailxml_defs"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://idealliance.org/Specs/mailxml12.0a/mailxml mailxml_12.0a.xsd "
mailxml:TrackingID="54000000000024336360">

  <mailxml:FaultCode>502</mailxml:FaultCode>
  <mailxml:FaultDescription>Duplicate submitter ID. This Mail.XML request for Message DeliveryApptQueryRequest with
SubmitterTrackingID 2014012008000928 was not processed by Mail.XML application because an identical request was
received on Mon Jan 20 08:00:30 CST 2014 and was assigned TrackingID of 54201401200024336358.

</mailxml:FaultDescription>
</mailxml:Fault>
```


**Scenario 2:**

Mailer sends original request followed by another identical request. No response is made available by the target application for the original request.

1. Mailer sends the first request with a unique SubmitterTrackingID.
2. MailXML application receives the request, captures the information below and routes the request to the target application for processing
    a. UserID
    b. MessageName
    c. TrackingID (Mail.XML app assigns this)
    d. SubmitterTrackingID (assigned by the Mailer)
    e. RequestReceived DateTime (Mail.XML app assigns this)
3. Mailer sends the second request with the same SubmitterTrackingID.
4. Mail.XML application checks the request, assigns TrackingID and performs validation for the duplicate message.
5. If it is a duplicate message Mail.XML will not forward the request to the target application. An error message will be generated by the Mail.XML application and returned back to the mailer as follows:


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6. "Duplicate submitter ID. This Mail.XML request for *MessageName* with SubmitterTrackingID *Number* was not processed by Mail.XML application because an identical request was received on *Day Date Time* and was assigned TrackingID of *Number*"
7. Mailer uses MRRR message with TrackingID *Number* to retrieve the responses.
8. Target applications generate the response for the initial/first request. Mail.XML application will generate a Come Back Later message if no response is available.

**Scenario 2 MailXML 12.0A Example:**

```
<?xml version="1.0" encoding="UTF-8"?>
<mailxml:MessageResponseRetrievalResponse xmlns:mailxml="http://idealliance.org/Specs/mailxml12.0a/mailxml"
xmlns:mailxml_base="http://idealliance.org/Specs/mailxml12.0a/base"
xmlns:mailxml_defs="http://idealliance.org/Specs/mailxml12.0a/mailxml_defs"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://idealliance.org/Specs/mailxml12.0a/mailxml mailxml_12.0a.xsd ">
  <mailxml:MessageResponseRetrievalReject mailxml:TrackingID="56201401200001105679">
    <mailxml:ReturnInfo>
      <mailxml_defs:ReturnCode>1502</mailxml_defs:ReturnCode>
      <mailxml_defs:ReturnDescription>Come Back Later</mailxml_defs:ReturnDescription>
    </mailxml:ReturnInfo>
  </mailxml:MessageResponseRetrievalReject>
</mailxml:MessageResponseRetrievalResponse>
```

## 1.3 General XML and Web Services Information

### XML

XML stands for eXtensible Markup Language and it is designed to transport and store data. For general information on XML, please visit http://www.w3schools.com/xml/default.asp

### XSD

An XSD is the XML Schema that describes the structure of an XML document. For general information on XSD, please visit http://www.w3schools.com/Schema/default.asp

Web Service

A Web Service is a feature that converts your software into internet-based software and publishes its functions/message to the users of the internet. For general information on Web Services, please visit:

http://www.w3schools.com/webservices/default.asp

http://www.w3schools.com/wsdl/default.asp

http://www.w3schools.com/soap/default.asp

## 1.4 About Schema Modularization

Mail.XML messages are grouped into six sets:

- Transportation Messages
- Mailing Messages
- Data Distribution Messages
- Identification Messages
- Supply Chain Messages
- System Messages

The underlying schemas have been modularized to reflect these distinct message sets. Additionally, three "shared" or "common" schemas have been developed and they are:

- One stores simple Mail.XML Mailing Message Specification type definitions that can be shared across message sets.
- A second common module is made up of common elements and complex types that are shared across two or more message sets.


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- The final common module is made up of system messages and the attributes, elements and complex types that are unique to these messages.

Mail.XML schema modules are designed to stand alone, separated by business functions, enabling those interested in one or more message sets to develop and validate just those message sets without the requirement to address the entire Mail.XML specification. Each module will validate by itself or in combination with all other message sets when the entire Mail.XML Specification is considered. In addition, each module will be versioned separately.

Version numbers are contained within the namespace designation. Modules will be documented individually as well.

The following Mail.XML XSD modules/namespaces have been developed:

- **mailxml_tm.xsd:** This module contains all the transportation (or FAST) messages with their attributes, elements and complex types that are unique to these messages. **Namespace=mailxml_tm**
- **mailxml_mm.xsd:** This module contains all the mailing messages (eDoc) with their attributes, elements and complex types that are unique to these messages. **Namespace=mailxml_mmmailxml_dd.xsd**: This module contains all the data distribution messages with their attributes, elements and complex types that are unique to these messages. **Namespace=mailxml_ddmailxml_id.xsd**: This module contains all the identification messages (CRID, MID etc.) with their attributes, elements and complex types that are unique to these messages. **Namespace=mailxml_idmailxml_sc.xsd:** This module contains all the supply chain messages (Cross-functional container based and other Mail.dat/mail.XML update functions) with their attributes, elements and complex types that are unique to these messages. **Namespace=mailxml_sc**
- **mailxml.xsd:** This module contains all the system messages with their attributes, elements and complex types that are unique to these messages. Note that in order for the MessageResponseRetrievalResponse to work, all the other message modules are included by the system.xsd. **Namespace=mailxml**
- **mailxml_defs.xsd:** This module contains all the common definitions of attributes, elements and complex types that are used across one or more message types. **Namespace=mailxml_defs**
- **mailxml_base.xsd:** This module contains all the simple types that are used everywhere in the mailxml. These simple types are associated with every element of each message. **Namespace=mailxml_base**

## 1.5 What Schemas Cover Data Distribution Functionality?

With the breakdown of XSD into multiple schemas – the Data Distribution functionality will be covered by mailxml_dd.xsd module and mailxml_id.xsd.

In addition to the above modules, mailxml_base.xsd and mailxml_defs are common/shared XSD that will be referred by each of these individual Data Distribution specific modules.

Lastly, mailxml.xsd module will be the source XSD that will connect all messages to their system level attributes. For example – MessageResponseRetrievalResponse is shared attribute/complex type associated to almost every single Mail.XML message regardless of whether it is a Data Distribution functionality or FAST or eDoc functionality. The other examples are DeliveryResponse, NotificationResponse, Fault, etc.

## 1.6 USPS Limitation Rule on Transaction Requests

USPS has recently encountered unusually high volume with specific Mail.XML transactions by FAST and Full-service Data Distribution users, which is causing a serious performance impact on several USPS servers that deal with authorization of all of the Mail.XML transactions.

The Postal Service requires that the USPS Mail.XML customers update their Mail.XML software to query the USPS *PostalOne!,* FAST, and Data Distribution systems **no more than seven times per hour**. Similarly, USPS customers are encouraged to set up their web services pull software to query the *PostalOne!* servers **no more than 200 times in a given 24-hour period** for their eDoc, FAST, or Full-service related data queries. This change is required for all customers. It will greatly assist in avoiding performance issues that can hinder quality of service; users still have many opportunities to query necessary postal data within this limitation. Likewise, in order to improve overall experience for all customers it is absolutely necessary that customers program their software to query the USPS systems for different transactions at different times, i.e., configure some queries to occur at odd times, e.g., FAST queries to occur at odd times while eDoc and Data distribution to occur at even times.

> ***Note:*** *The above statements and limitations are under review by the USPS. Updates to this section will be provided in the next Mail.XML technical specification publication.*


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## 1.7 Roadmap of Mail.XML

The table below shows the roadmap of the Mail.XML versions, starting from versions supported in January 2014 to versions that will be supported through January 2015 for Data Distribution.

| January 2014<br>Release 37.0 | August 2014<br>Release 38.0 | November 2014<br>Release 39.0 | January 2015<br>Release 40.0 |
|---|---|---|---|
| Mail.XML 11.0D<br>Mail.XML 12.0A<br>Mail.XML 12.0B<br>Mail.XML 14.0A** | Mail.XML 11.0D*<br>Mail.XML 12.0A<br>Mail.XML 12.0B<br>Mail.XML 14.0A<br>Mail.XML 16.0** | Mail.XML 12.0A<br>Mail.XML 12.0B<br>Mail.XML 14.0A<br>Mail.XML 16.0 | Mail.XML 12.0A<br>Mail.XML 12.0B<br>Mail.XML 14.0A<br>Mail.XML 16.0 |

**Table 1-1 Roadmap of Mail.XML for Data Distribution Functionality**

***Note:*** *The version(s) flagged with a single asterisk (*) are planned for de-commissioning within 120 days of the release date.*

***Note:*** *The version(s) flagged with a double asterisk (**) are new version(s), which are planned for implementation with the release date.*

The table below lists all Mail.XML Profiles and Full-Service Data Feedback related messages that are supported in Mail.XML version 12.0A.

| Message Name |
|---|
| ByForConflictDelivery |
| ByForConflictNotification |
| ByForConflictQueryRequest |
| ByForConflictQueryResponse |
| CastofCharactersCancelRequest |
| CastofCharactersCancelResponse |
| CastofCharactersCreateRequest |
| CastofCharactersCreateResponse |
| CastofCharactersUpdateRequest |
| CastofCharactersUpdateResponse |
| DeliveryResponse |
| AddressCorrection Delivery |
| AddressCorrection Notification |
| AddressCorrection QueryRequest |
| AddressCorrection QueryResponse |
| ContainerStatusDelivery |
| ContainerStatusNotification |
| ContainerStatusQueryRequest |
| ContainerStatusQueryResponse |
| ContainerVisibilityDelivery |
| ContainerVisibilityNotification |
| ContainerVisibilityQueryRequest |
| ContainerVisibilityQueryResponse |
| NixieDetailDelivery |
| NixieDetailNotification |
| NixieDetailQueryRequest |
| NixieDetailQueryResponse |
| ContainerVisibilityDelivery |
| ContainerVisibilityNotification |
| ContainerVisibilityQueryRequest |
| ContainerVisibilityQueryResponse |
| DataQualityVerificationQueryReport Request |
| DataQualityVerificationQueryReport Response |
| DataQualityVerificationReportDelivery |
| DataQualityVerificationReport Notification |


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| Message Name |
|---|
| NixieDetailDelivery |
| NixieDetailNotification |
| NixieDetailQueryRequest |
| NixieDetailQueryResponse |
| StartTheClockDelivery |
| StartTheClockNotification |
| StartTheClockQueryRequest |
| StartTheClockQueryResponse |
| NotificationResponse |
| MessageResponseRetrievalRequest |
| MessageResponseRetrievalResponse |
| NonComplianceDataWithPostageOwedReportDelivery |
| NonComplianceDataWithPostageOwedReportNotification |
| NonComplianceDataWithPostageOwedReportQueryResponse |
| NonComplianceDataWithPostageOwedQueryRequest |
| MPSVisDelivery |
| MPSVisNotification |
| MPSVisQueryRequest |
| MPSVisQueryResponse |

**Table 1-2 Messages Supported in Data Distribution Mail.XML 12.0A**

## 1.8 Purpose

The purpose of this Technical Specification is to supplement the IDEAlliance Mail.XML specification and to provide the Mail.XML users with specific information regarding the USPS implementation. This document serves as the collection of all specific rules, standards, accepted values, error messages, etc. regarding the USPS implementation of the Mail.XML specification. The content in this document is subject to change as IDEAlliance updates the Mail.XML Specification.

This technical specification includes the return codes, error codes and their descriptions, as well as the WSDLs links for Mail.XML 12.0A implementation. This specification also lists all of the return codes, and error codes with their descriptions for each message supported in Mail.XML 12.0A.

## 1.9 Intended Audience

The intended audience for this specification is technical programmers and technical managers. Prior knowledge of XML language, Mail.XML and Mail.dat functionalities will greatly improve the understanding of this document. The majority of the codes used in the Mail.XML base XSD come from the Mail.dat specification, the USPS recommends reading the *Postal Service Mail.dat Technical Specification* to understand the meaning of the flags used by IDEAlliance in Mail.XML. The code descriptions for simple types that are coming from the Mail.dat specification have been added as part of the simple type table for added benefit to the reader.

## 1.10 About This Document

In the messages data structure table, complex types have been referenced. To properly implement the Mail.XML messages and fully understand the structure of the Full-Service Data Distribution messages, the USPS recommends the customer study the complex types provided in this specification.

Also in the messages data structure, simple types have been referenced under the acceptable values column. USPS recommends that the customer study the simple types to fully understand the cryptic meaning of the codes that are used in the simple types. For example, “Mail Class” simple type allows values 1, 2, 3, or 4, where the translation of these codes is ‘First-Class Mail’, ‘Periodicals’, ‘Standard Mail’, and ‘Package Services’ respectively. The USPS also recommends reading the *Postal Service Mail.dat Technical Specification* document located on RIBBS®.

In the data structure tables, some field names may contain spaces for readability purposes because the names of those fields are lengthy. In Mail.XML, spaces are not allowed in the element names. For example, “SubmittingParty” is the element name but in the data table, it may have been written as “Submitting Party”. If you are using this document to code your software, use the latest version of Mail.XML XSD located on RIBBS® to fully understand the name of the element, and the structure of every block and message to minimize the impact of incorrect coding.


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## 1.11 How to Read Data Structure

There are three possibilities for every element listed in the data structure table of each message. These possibilities are REQUIRED, OPTIONAL, and CONDITIONALLY REQUIRED. The Required option means that mailer/preparer or sender of the message must provide data for the element.

An element designated as optional means the sender of the message has a choice to include the data or omit it from submission. The third option of Conditionally Required means that if a certain condition is met, then the sender of the message must provide data for that particular element. For example, EntryPointEDPostalCode is conditionally required only if EntryPointEDFacilityType is populated in the ContainerUpdateRequest message.

In addition to the above options, there are instances where the main block is marked as REQUIRED but the elements within the block are OPTIONAL or Vice Versa. This means that sender of the message must include the block when sending the message but can omit all elements within the block. A good example is 'SubmittingParty' block, which is a REQUIRED block, but all elements within this block are OPTIONAL.

## 1.12 Issue Resolution

All issues identified in the USPS software that may not correspond with the business rules identified in this specification and that require workarounds are listed in the critical issues list on the RIBBS Intelligent Mail site under Latest News. For example – In some cases the work around for Full-Service ACS data is to receive the data through OneCode ACS method instead of Full-Service method. In other cases for postage statements too big in size, the work-around is to divide the statements in multiple statements. The current Critical Issues list of the *PostalOne!* system is found on the Latest News tab of the RIBBS Intelligent Mail page at Intelligent Mail Latest News.

## 1.13 Environments Supported by USPS

The USPS supports both a test environment and a production environment.

**Testing Environment for Mailers (TEM):** This environment is used for software approval processes for all mailers prior to moving into the production environment. Mailers must work with the *PostalOne!* Help Desk to start the approval process for their software, and must be approved in the TEM environment prior to sending Mail.XML data transactions in the Production environment. The TEM environment is available for Mail.XML basic testing capabilities and will be available for all future releases. For more information regarding TEM, see the Test Environment for Mailers: Checklist and Troubleshooting Guide.

**Production Environment:** The Production environment is used by all customers once they have been approved by USPS to start sending messages and transactions to the *PostalOne!* Production environment. Customers are approved as a result of performing required tests in the TEM environment.

## 1.14 *PostalOne!* WSDL Information

All web services transactions with the USPS should comply with the WSDL specification, which are posted on RIBBS and can be downloaded from the following location: Web Service Description Language (WSDL) Specifications.

A web services request must include a valid and active USPS User ID and Password as defined in the UserAuthenticationInfo.xsd file that is provided as part of the WSDL files. A typical web service message construct is defined as follows:

```
<wsdl:message name="DeliveryApptContentUpdateRequest">
    <wsdl:part name="authInfo" element="auth:AuthenticationInfo"/>
    <wsdl:part name="apptContentUpdate" element="tns:apptContentUpdate"/>
</wsdl:message>
```

**XSD-typed WSDL**:

```
<wsdl:message name="StartTheClockQueryRequest">
    <wsdl:part element="uspsmxml: StartTheClockQueryRequest" name="StartTheClockQueryRequest"/>
</wsdl:message>
```

USPS will validate and authenticate the user information before processing the request. An error message will be returned in response to the web service request for invalid user information.

### 1.14.1 Types of WSDLS

USPS only accepts Message-Type WSDLs.

**Consuming Message-Type WSDLs:**


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The message-type WSDL eliminates the need to manually register each service and message type. With this method, a customer can use an automated tool to setup their environment without manually registering each service. However, this approach requires updates to WSDLs every time a new Mail.XML version is released. In other words, it is tightly coupled with the Mail.XML Specification Version. The USPS has transitioned to this type of Message WSDLs to remove manual editing and registering of messages.

Customer must use message-type URLs to consume these services. These URLs are provided in Section 7.

## 1.15 Mail.XML Workflow

### 1.15.1 Full-Service Feedback Messages Workflow

Users may receive Full-Service feedback data via either the Push Delivery method or the Pull method. All messages that end with the word “Notification” or “Delivery” are part of the Push Delivery method and all messages that end with the word “Request” or “Response” are part of the Pull method. To start receiving the data via Push Delivery method the user must subscribe to Push Delivery service via the USPS Business Customer Gateway, accessible through the web at Business Customer Gateway. For details on how to subscribe to Push Delivery and more information on the Pull and Push methods, refer to section 7 of this document.

### 1.15.2 Profile Management Messages Workflow

All messages in the Profile Management families follow the Pull method where a user sends a request and expects to receive either data or an error/return code.

Messages, including CRID or MID creation messages, do not need to be requested or sent in any particular order.

## 1.16 Exceptions

The following is the list of exceptions identified by USPS.

| Mail.XML Version | Exception Description |
|---|---|
| ALL | The customer should not zero-pad their MID and CRID IDs |

**Table 1-3 Mail.XML exceptions identified by USPS**


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# 2. Full-Service Data Feedback

## 2.1 Full-Service Data Feedback Overview

The Full-Service program will utilize the *PostalOne!* system to provide Start-the-Clock, Container Visibility, Confirm (Full-Service only), Address Correction Data, Nixie Detail data, and Full-service Data Quality reports to the customers identified as recipients of full-service feedback.

There are a number of ways by which all of the Full-service data feedback messages will be exchanged through the *PostalOne!* system as described below:

| **Options for Data Exchange** | | | | | |
|---|---|---|---|---|---|
| **No** | **Data/ Service** | **Browser-based HTTPS Download (Compressed Files)** | **Browser-based Report (over HTTPS)** | **Mail.XML Pull (Customer Invokes USPS Web Service)** | **Mail.XML Push (USPS Invokes Customer Web Service)** |
| 1 | Start-the-Clock | Yes | Yes | Yes | Yes |
| 2 | Container Visibility/Scan | Yes | Yes | Yes | Yes |
| 3 | ACS COA | Yes | No | Yes | Yes |
| 4 | ACS Nixie Detail | Yes | No | Yes | Yes |
| 5 | Full-Service eDoc Data Quality Verification | No | Yes (MicroStrategy Reports) | Yes | Yes |
| 6 | Full-Service NonCompliance Data With Postage Owed | No | Yes (MicroStrategy Reports) | Yes | Yes |

**Table 2-1 Full-Service Data Exchange Options**

**FTP** – File Transfer Protocol method. FTP support is phasing out to meet USPS Security standards for secured, guaranteed solutions. Any USPS services that currently provide data through the FTP protocol to its customers will provide ample time and communication to the USPS customers and collaborate with the customers to help with transition before transitioning to the non-FTP protocol data communication methods.

**Browser-based HTTPS (Hyper Text Transport Protocol - Secure) Download (Compressed Files)** – Online web page allowing customers to download ‘compressed data’ over HTTPS protocol in a CSV or Excel format.

**Browser-based HTTPS Reports** – Online web page allowing customers to view ‘reports’ over HTTPS.

**Mail.XML Pull (Customer Invokes USPS Web Service)** - Web Services Pull model where a customer sends a Web Services-based Mail.XML Request message invoking USPS Web Services to pull data in XML format through a Mail.XML Web Service method.

On the response provided, it would include TrackingID as part of ‘LargeTransactionDividerResult’. Whenever a mailer application sees this element, they need to send MessageResponseRetrievalRequest (using the correct Mail.XML version XSD) and use the TrackingID provided to get the response.

For example, if a mailer sends ‘NixieDetailQueryRequest’ and the *PostalOne!* system has to send a large result set as a response (e.g., 1000 messages broken down into 200 messages per transaction), then the *PostalOne!* system will return a response with the first 200 messages and include five TrackingIDs as part of the ‘LargeTransactionDividerResult’.

Mailer can send TrackingID request and get the remaining data. Additionally, the element ‘LargeTransactionDividerGroupType’ can give more information on what is included on each transmission.

Refer to Section 2.1.5 for more information.

**Mail.XML Push (USPS Invokes Customer Web Service)** - Web Services Mail.XML Push model where the USPS invokes a customer’s Web Service method/URL and pushes XML data to the customer’s web service when the data is available or a notification is sent to the customer by the USPS that customer’s data is available for download. Refer to Section 2.1.4 for more information.


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In support of Full-service feedback messages that larger are in size, the Mail.XML specification has an element 'LargeTransactionDividerResult' to support such transactions. The *PostalOne!* system will divide the large result set into smaller chunks.

### 2.1.1 What you need to receive your data through the data exchange methods

#### 2.1.1.1 Step 1

The customers must be registered *PostalOne!* system users and must be registered Business Customer Gateway users with a valid username and password. For information on the Business Customer Gateway, refer to the User Access to Electronic Mailing Information and Reports Guide, Volume 1 on RIBBS.

Visit the Business Customer Gateway home page at Business Customer Gateway to begin participating in Mail.XML and to obtain access to the *PostalOne!* system. If you have questions, call the *PostalOne!* systems Help Desk at (800) 522-9085.

Once you are a registered user and have the ability to access the *PostalOne!* system you will have access to the browser-based HTTPS reports and data download options as well. You will have the ability to perform electronic data exchange with the *PostalOne!* system through approved methods.

#### 2.1.1.2 Step 2

The customers interested in automated electronic data exchange currently have four options available to them for receiving electronic data from the USPS for full-service mailings.

- Browser-based HTTPS Download (Compressed Files) - The first available data exchange option is secure browser-based compressed file download. No other information for full-service will be available through browser-based download method, other than Address Correction and Nixie Detail data.
- Browser-based HTTPS Reports - The second option available to customers is viewable browser-based reports. The only data that is currently available through browser-based reports is Start-The-Clock and Container Visibility data.
- Mail.XML Pull (Customer Invokes USPS Web Services) – The Mail.XML is an IDEAlliance specification and does not require any IDEAlliance fee to use/implement the specification. The latest version of Mail.XML is available at the IDEAlliance Mail.XML site. Customers can pull their information whenever they desire, using Request and Response methods for StartTheClock, Container Scans, ACS, and Nixie data.
- Mail.XML Push (USPS Invokes the Customer's Web Services) – USPS provides online push subscription pages as well as web services methods so that the customer can register with the *PostalOne!* system as a subscriber of detail data (Delivery messages) or as a subscriber of notifications (Notification messages) that tell the customer, when data is ready to be pulled. The customer can register to receive automatically, either a) the detail data, or b) the notifications as they pertain to StartTheClock, Container Scans, Full-service ACS COA, and Full-service ACS Nixie data.

The Mail.XML specification is a USPS and industry agreed-upon strategy and represents the future communication method for data exchange. It is bi-directional, near real time, and can convert large data transactions into smaller transactions while providing guaranteed delivery, verification and near real time conflict resolution capabilities. The sender and receiver can validate the data, verify guaranteed delivery and actually converse intelligently both ways to report any issues with data transfer or with business issues found within the data.

### 2.1.2 How Do You Implement the Mail.XML Available for Full-Service Data Feedback?

The user should download the XSD, the data dictionary and support documents from the following link: IDEAlliance Mail.XML.

Check for the versions supported by the USPS at Intelligent Mail Schedule 2014, or the Full Service 2014 Releases home page under Important Links -> Mail.dat and Mail.XML Version Schedule.

### 2.1.3 Why Mail.XML-Based Data Feedback?

Mail.XML was created to enhance efficiency and ease of transmission for the small and large data volume communications. The message sets were designed with an attribute that allows all large data volume messages to be broken up in as many unique child transactions as the USPS and the industry feel will be supported by the existing network infrastructure. In other words, a 10MB file can be broken up in ten 1MB transactions or twenty 500KB in size transactions except for Address Correction and Nixie messages where the messages will be broken between 450-600KB. The Mail.XML allows for verification and thorough validation of the data, right away, in near real time. More importantly, with Mail.XML, your software can respond back to the *PostalOne!* system right away to let the USPS know if you successfully received all the data or not. You can also let the USPS know right away if the data sent by the USPS to you had problems, the data was bad or incomplete or did not belong to you, etc., so automatic conflict resolution triggers can result in immediate action by the USPS. Mail.XML expands the same capabilities to other data types. Mail.XML adds


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more validation by introducing changes to simple types and later versions further streamline the XSD structure to fix previously identified exceptions such as making the SubmittingParty and other elements optional in all data distribution messages. Modularization of XSD has been introduced which will streamline the process of implementing the code.

Another important feature for your business is that unlike Mail.dat, there are almost no wait times for you to file your postage, qualification, and container and bundle reports with the USPS since you are filing final documents.

**Prerequisite:**

All customers who want to receive Full-Service data feedback must be registered *Business Customer Gateway* users. The customer must have gone through the *Gateway* approval and activation process for this business function and must establish push subscription profiles in the Push Subscription user interface to provide data distribution guidance for their data. The data distribution authorization is driven by the data provided in the eDocumentation to the *PostalOne!* system about the By/For relationship. The MID profiles, if set up by the customer, take precedence over the eDoc data on authorization rules.

The Full-Service data is provided electronically to the USPS customers in two ways. One method is through manual download of data in CSV (Comma Separated Values) and Microsoft Excel application formats available through Business Customer Gateway online pages. Second method is of an automated data exchange, using IDEAlliance Mail.XML specification and web services technology. With Mail.XML method, the customer can periodically query USPS *PostalOne!* system for their information or can subscribe for their data and receive it automatically from the USPS *PostalOne!* server to their (customer's) server. Mail.XML based data exchange requires that the customer buy software that is capable of exchanging information with the USPS through SOAP protocol or that the customer code (programs) the software with Mail.XML capabilities.

Customers can login through Business Customer Gateway, go to Full-Service reports link to search for specific ACS and StartTheClock data for their mailings, and download the data in a CSV or Excel format.

> ***Note:*** *The Data Quality reports are available through manual download format, online reports, and through Mail.XML format, however we do not encourage manual download of this detail data because the data would only make sense once merged/linked with the mailing eDoc data in customer's systems.*

Customers also have the ability to conduct all Full-Service data exchange electronically and automatically through IDEAlliance Mail.XML web services implementation by the USPS.

### 2.1.4 What is Push Model/Subscription method?

The details about 'How to Subscribe to Mail.XML Push Messages' are outlined in the Test Environment for Mailers (TEM) Checklist and Troubleshooting document on RIBBS.

If you want to automatically receive the data as soon as it is ready (Push model), you must have registered your Web Services URL, implemented a WSDL for push (Delivery and Notification) Mail.XML messages, and implemented Authentication and Authorization to authenticate and authorize transactions sent by the *PostalOne!* system to your server. You also must have installed a signed SSL certificate from VeriSign or Comodo on your server, which is setup to receive push transactions form the USPS. You will also be asked to provide your IP address, server's physical address and other pertinent information to the Help Desk in the TEM Full-service Data Feedback using Push Messages – Customer Identification Form that can be downloaded from RIBBS at TEM Mail.XML Forms.

With the Mail.XML Push or subscription method, the USPS customers can login to the USPS Business Customer Gateway and under Full-service subscription link can provide a user id, password, and a URL that the *PostalOne!* system can use to connect and send data to the customer's server.

On the Business Customer Gateway, the USPS customer can schedule how often they want to receive their Full-Service data. They have the choice to get the data every 6, 12, or 24 hours.

The WSDLs and XSDs available at the end of this document MUST be used to ensure conformity and standardization of data exchange between the *PostalOne!* system and customers. Within the Gateway system, a user interface allows you to provide the information and indicate which messages you want to receive as a Push model. You must have also checked the type of data you want to receive as a Push. All push messages end in the word "Delivery" or in the word "Notification." Messages that start with the word "Delivery" are usually specific to the FAST system.

The messages that end with the word "Delivery" mean that the message has all the detail data and the customer is receiving the data because the customer registered with the USPS *PostalOne!* system to receive the detail data as it becomes available.

The messages that end with the word "Notification" mean that the message will notify the customer that the "data is ready" to be pulled through Pull Mail.XML mechanism or another approved method. Notification messages will not have detail data. The customer will have the option to choose the push messages that they want the *PostalOne!* system to use and


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send the data to the customer. e.g., a customer may decide to use Pull messages for ACS, but may decide to receive continuous feeds of data for StartTheClock "Delivery" message or Nixie "Delivery" message and may choose to receive the notifications through the Notification messages.

**Getting Ready for Push Data Distribution Checklist**

The details about 'How to Subscribe to Mail.XML Push Messages' are outlined in the Refer to the Test Environment for Mailers (TEM) Checklist and Troubleshooting document on RIBBS. High-level steps are provided below for an overall understanding of the workflow:

1. Enable SSL communication with USPS® TEM and Production environment. Refer to the *'Test Environment for Mailers (TEM) Checklist and Troubleshooting* document.
1. Customer must acquire a signed certificate to enable SSL (secure socket layer) communication with USPS[4.1], which allows secure data exchange between USPS and customers server on port 443.
2. Through Business Customer Gateway – access the Push Subscription Profile user interface and set up Subscription profile
   a. During Subscription profile setup – user has two options i.e. Subscribe to Notification and Subscribe to Delivery. Customer can subscribe to one push type.
   b. During the subscription setup process, the customer must determine how frequently they would like to receive the notification or delivery.
3. Customer must provide their servers' web service URL, User Name, and Password. This will allow the USPS® *PostalOne!* system to connect to customer's server and start pushing the notification or deliver the message.
4. Customers must set up their Web Service to access USPS® TEM and USPS® Production environment and provide the Web Service URL during the subscription process.
5. Download and implement USPS® provided WSDLs. See *WSDL Information* below for more details.

### 2.1.5 What is Pull Model?

If a customer wants to get the data based upon their own needs and wants to pull the data from the *PostalOne!* system, they will not need to host their own Web Services URL. They will need the software that can send a message request to the *PostalOne!* system for any available data and the *PostalOne!* system will respond back with the data. The customer will need to be approved and activated by the USPS to be able to use this software in production.

With the Mail.XML Pull method, the USPS customers can have their software query the USPS *PostalOne!* System for their ACS, Nixie, Start-the-Clock, Container-Visibility, By-For-Conflict, Non-Compliance Data, and Data Quality reporting data. The Query filters include job id information and other mail owner or appointment information as applicable for the type of data being pulled. There are Query Request and Response messages where the Query request is done by the USPS customer's software and the USPS responds back with the Query Response message with the data.

### 2.1.6 Message Response Retrieval Request (MRRR) Processing

Fault and Fault Recovery Messages

This series of messages is primarily used to support the Asynchronous communication when the response from the USPS may not be within a 7 seconds period and the USPS gives out a tracking ID to the customer. The customer then uses the Tracking ID to get his message response back using the MRRR message set that includes:

- Message Response Retrieval Request
- Message Response Retrieval Response

Customer will have the ability to retrieve the responses of all of the messages documented in this specification using the TrackingID in the MRRR messages. Tracking IDs become stale after 24 hours.

### 2.1.7 Error/Return Codes

Faults, such as a message timeout or invalid XML are to be communicated using the fault element and returned within the detail section of the SOAP fault. The fault is made up of a tracking ID and one or more fault codes and optional fault descriptions.

Note that all of the Error/Return Codes listed below are supported in all versions of Mail.XML.

Below is the list of fault codes that are applicable to all Mail.XML messages. They are sent whenever a fault occurs in the transmission of the message.

| Code | Description | Action* | Messages | Severity |
|---|---|---|---|---|


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| Code | Description | Action* | Messages | Severity |
|---|---|---|---|---|
| 401 | Incomplete/Cannot Parse | Please submit the request again with well-formed XML according to XSD. | Fault (All Mail.XML Messages) | Error |
| 402 | Not Well Formed XML | Please submit the request again with well-formed XML according to XSD | Fault (All Mail.XML Messages) | Error |
| 403 | Request XML is invalid against the XSDs | Please submit the request again with well-formed XML according to XSD. | Fault (All Mail.XML Messages) | Error |
| 412 | Invalid user | Please submit the request again with a valid user. | Fault (All Mail.XML Messages) | Error |
| 440 | Sorry - MailXML version is not supported | Please submit the request again with MailXML version supported by PostalOne Data Distribution System. | Fault (All Mail.XML Messages) | Error |
| 500 | Mail.XML generic internal error | Please contact the *PostalOne!* Help Desk. | Fault (All Mail.XML Messages) | Error |
| 501 | MailXML request is missing 'SubmitterTrackingID' which is required for processing the Message | Please submit the request again with SubmitterTrackingID. | Fault (All Mail.XML Messages) | Error |
| 502 [1] | Duplicate submitter ID. This Mail.XML request for Message #messageName# with SubmitterTrackingID #submitterTrackingID# was not processed by Mail.XML application because an identical request was received on #submitDate# and was assigned TrackingID of #trackingID#. | Please use the MRRR message with Tracking ID #trackingID# to retrieve. | Fault (All Mail.XML Messages) | Error |
| 503 | Not Implemented - MailXML message received is not supported | Please submit the request again with MailXML message supported by PostalOne Data Distribution System. | Fault (All Mail.XML Messages) | Error |
| 505 [1] | Submitter tracking ID is too long | Please submit the request again with SubmitterTrackingID length not exceeding the length specified in the Tech Spec. | Fault (All Mail.XML Messages) | Error |
| 1500 | Invalid tracking ID | Please submit the request again with a valid Tracking ID. | Fault (All Mail.XML Messages) | Error |
| 1502 [2] | Come Back Later | The response is not available at this time, Please try again later. | Fault (All Mail.XML Messages) | Warning |
| 1502 | Come Back Later | The response is not available at this time, Please try again later. | MessageResponseRetrievalResponse | Warning |
| 1510 | The TrackingID provided in the MessageResponseRetrievalResponse request was processed by Mail.XML application on #processedDate#. No response was received by Mail.XML from the target application. | Please submit the request again or contact the *PostalOne!* Help Desk. | Fault (All Mail.XML Messages) | Information |
| 1600 | MRRR version not matching original request version. | Please submit the MRRR request again using the same MailXML version that was used to submit the original request. | Fault (All Mail.XML Messages) | Error |
| 5101 [3] | Unauthorized - Required SubmittingParty information is empty or missing. | Please submit the request again with valid SubmittingParty block. | Fault (All Mail.XML Messages) | Error |


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| Code | Description | Action* | Messages | Severity |
|---|---|---|---|---|
| 5102 [3] | Unauthorized - User does not have access to specified SubmittingParty. | Please submit the request again with valid SubmittingParty block or contact the *PostalOne!* Help Desk. | Fault (All Mail.XML Messages) | Error |
| 5103 [3] | Unauthorized - User does not have access to 'Manage Mailing Activity' service. | Please contact the *PostalOne!* Help Desk. | Fault (All Mail.XML Messages) | Error |

[1] Error code 501 was used for any Submitter Tracking ID error. In Release 37, Error Codes 502 and 505 are used to enable distinction between Submitter tracking ID errors.

[2] Error Code 500 was used for any generic error and Come Back Later faults. In Release 37, Error Code 1502 is used for any Come Back Later message for consistency.

[3] Error Code 412 was used for any User Error. In Release 37, Error Codes 5101, 5102 and 5103 are used to enable distinction between user errors.

* Action tags are only available for Mail.XML specs 14.0A and above.

**Table 2-2 Fault Codes**

Below is the list of the codes to be returned by the Customer to the *PostalOne!* system in the Delivery Response message to indicate the success or the failure of the delivery messages to the Customer's web services end point.

| Code | Description | Messages |
|---|---|---|
| 5800 | Successful Push Delivery Receipt | DeliveryResponse NotificationResponse |
| 5801 | Push Authentication failed: Invalid Username | DeliveryResponse NotificationResponse |
| 5802 | Push Authentication failed: Incorrect Password | DeliveryResponse NotificationResponse |
| 5803 | Push Account Disabled | DeliveryResponse NotificationResponse |
| 5804 | Push Delivery Processing Failed | DeliveryResponse NotificationResponse |

**Table 2-3 *PostalOne!* – Data Distribution – Delivery Response Return Code Values**

Below is the list of the return codes that the *PostalOne!* system will communicate to the customer in response to the Push Subscription request message to indicate the success or the failure of the subscription request.

| Code | Description | Messages |
|---|---|---|
| 5805 | Push Subscription Error: Invalid CRID. | ProfileResponse |
| 5806 | Push Subscription Error: Invalid message type. | ProfileResponse |
| 5807 | Push Subscription Error: Invalid Push type. | ProfileResponse |
| 5808 | Push Subscription Error: Invalid user ID and/or password. | ProfileResponse |
| 5809 | The web service URL format is invalid. | ProfileResponse |
| 5810 | Push Subscription Error: Push Start date is invalid. | ProfileResponse |
| 5811 | Push Subscription Error: Invalid frequency. | ProfileResponse |
| 5812 | Push Subscription created successfully. | ProfileResponse |
| 5813 | Push Subscription updated successfully. | ProfileResponse |
| 5814 | Push Subscription cancelled successfully. | ProfileResponse |
| 5815 | Push Subscription Error: Database error occurred, subscription not saved/updated. | ProfileResponse |
| 5816 | Push Subscription Error: Database error occurred, subscription already exists. | ProfileResponse |
| 5817 | Push Subscription Error: Database error occurred, subscription does not exist. | ProfileResponse |
| 5900 | No records found for the given search criteria | AddressCorrection QueryResponseContainerVisibilityQueryResponseDataQualityVerificationReportQueryResponseNixieDetailQueryResponseStartTheClockQueryResponseByForConflictQueryResponse |


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| Code | Description | Messages |
|---|---|---|
| 5901 | Full-service data feedback has been deactivated to one or more Mail Owner CRIDS | FullAddressCorrectionQueryResonseFullAddressNixieDetailQueryResponse |
| 5902 | Please limit the date range in the search criteria to one week | FullAddressCorrectionQueryResonseFullAddressNixieDetailQueryResponseStartTheClockQueryResponse |
| 5903 | Either Mailer ID6 or Mailer ID9 is required to use lower/upper IMB ranges in search criteria | FullAddressCorrectionQueryResonseFullAddressNixieDetailQueryResponse |
| 1500 | Invalid Tracking ID | AddressCorrection QueryResponseContainerVisibilityQueryResponseDataQualityVerificationReportQueryResponseNixieDetailQueryResponseStartTheClockQueryResponseByForConflictQueryResponse |
| 1502 | Come Back Later | AddressCorrection QueryResponseContainerVisibilityQueryResponseDataQualityVerificationReportQueryResponseNixieDetailQueryResponseStartTheClockQueryResponseByForConflictQueryResponse |
| 1510 | The TrackingID provided in the MRRR request was processed by Mail.XML application on mm/dd/yyyy hh:mm:ss. No response was received by Mail.XML from the target application. Please re-submit a new request or contact the HelpDesk for more investigation to the issue preventing the target application from generating the response | MessageResponseRetrievalResponse |

**Table 2-4 *PostalOne!* Subscription Request Return Code Values**

Below is the list of the return codes that the *PostalOne!* system will communicate to the customer in response to the Cast of Characters Create, Cast of Characters Update, or Cast of Characters Cancel message to indicate the failure of a request message:

| Code | Description | Message |
|---|---|---|
| 6000 | Success | CastofCharactersCreateResponse,CastofCharactersCancelResponseCastofCharactersUpdateResponse |
| 6001 | Invalid Mailer ID | CastofCharactersCreateResponse,CastofCharactersCancelResponseCastofCharactersUpdateResponse |
| 6002 | Missing Required Field | CastofCharactersCreateResponse,CastofCharactersCancelResponseCastofCharactersUpdateResponse |
| 6003 | Invalid Participant ID | CastofCharactersCreateResponse,CastofCharactersCancelResponseCastofCharactersUpdateResponse |
| 6004 | Invalid Submitting CRID ID | CastofCharactersCreateResponse,CastofCharactersCancelResponseCastofCharactersUpdateResponse |
| 6005 | For Future Use | |
| 6006 | Submitting Software Version is not supported | CastofCharactersCreateResponse,CastofCharactersCancelResponseCastofCharactersUpdateResponse |
| 6007 | Unknown Error | CastofCharactersCreateResponse,CastofCharactersCancelResponseCastofCharactersUpdateResponse |
| 6008 | Mail XML version is not supported | CastofCharactersCreateResponse,CastofCharactersCancelResponseCastofCharactersUpdateResponse |
| 6009 | Mailing Piece Group Range does not exist | CastofCharactersCreateResponse,CastofCharactersCancelResponseCastofCharactersUpdateResponse |
| 6010 | For Future Use | |
| 6011 | Cannot update record, original record does not exist | CastofCharactersCancelResponse |
| 6012 | Cannot cancel record, original record does not exist | CastofCharactersCancelResponse |
| 6013 | XML Not well formed | CastofCharactersCreateResponse,CastofCharactersCancelResponseCastofCharactersUpdateResponse |


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| Code | Description | Message |
|---|---|---|
| 6014 | Data distribution profile has not been established by the mailer | CastofCharactersCreateResponse |
| 6015 | Invalid Mailing Piece Group Range which overlaps with an existing profile | CastofCharactersUpdateResponse |
| 6016 | Cannot update record, mailpiece group has not been defined previously | CastofCharactersUpdateResponse |
| 6017 | Cannot perform request, mailer is blocked | CastofCharactersCreateResponse,CastofCharactersCancelResponseCastofCharactersUpdateResponse |
| 6018 | Invalid Mailer ID in IMb | CastofCharactersCreateResponse,CastofCharactersCancelResponseCastofCharactersUpdateResponse |
| 6019 | Invalid Mailer ID in Piece Range | CastofCharactersCreateResponse,CastofCharactersCancelResponseCastofCharactersUpdateResponse |
| 6020 | Invalid Submitting Mailer ID | CastofCharactersCreateResponse,CastofCharactersCancelResponseCastofCharactersUpdateResponse |
| 6021 | Invalid Participant Mailer ID | CastofCharactersCreateResponse,CastofCharactersCancelResponseCastofCharactersUpdateResponse |
| 6022 | Inactive Mailer ID in IMb | CastofCharactersCreateResponse,CastofCharactersCancelResponseCastofCharactersUpdateResponse |

**Table 2-5 *PostalOne!* – Cast of Characters Response Return Code Values**

Below is the list of return codes that the *PostalOne!* system will communicate to the customer in response to Data Distribution Messages:

> ***Note:*** *These Error/Return Codes below will be updated ONLY if the CR is in the IDEAlliance xsd, not the custom xsd to the PostalOne! system.*

| ERROR CODE | REPORT TYPE | FUNCTIONAL DESCRIPTION |
|---|---|---|
| 7106 | By/For Verification | The Mail Preparer was not identified for the physical piece due to an invalid Mailer ID(.mpa) |
| 7107 | By/For Verification | The Mail Preparer was not identified for the physical piece due to an invalid CRID(.mpa) |
| 7108 | By/For Verification | The Mail Preparer was not identified for the physical piece due to an invalid Mailer ID(QualReport) |
| 7109 | By/For Verification | The Mail Preparer was not identified for the physical piece due to an invalid CRID(QualReport) |
| 7110 | By/For Verification | The Mail Preparer was not identified for the physical piece due to no Mail Preparer identifiers in the eDoc |
| 7111 | By/For Verification | The Mail Owner was not identified for the physical piece due to an invalid Mailer ID(.cpt) |
| 7112 | By/For Verification | The Mail Owner was not identified for the physical piece due to an invalid Mailer ID(.mpa) |
| 7113 | By/For Verification | The Mail Owner was not identified for the physical piece due to an invalid CRID(.cpt) |
| 7114 | By/For Verification | The Mail Owner was not identified for the physical piece due to an invalid CRID(.mpa) |
| 7115 | By/For Verification | The Mail Owner was not identified for the physical piece due to an invalid Mailer ID(MailPiece) |
| 7116 | By/For Verification | The Mail Owner was not identified for the physical piece due to an invalid CRID(MailPiece) |
| 7117 | By/For Verification | The Mail Owner was not identified for the physical piece due to an invalid CRID(QualReport) |


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| ERROR CODE | REPORT TYPE | FUNCTIONAL DESCRIPTION |
|---|---|---|
| 7118 | By/For Verification | The Mail Owner was not identified for the physical piece due to no Mail Owner identifiers in the eDoc |
| 7119 | By/For Verification | The Mail Owner was not identified for the physical piece due to invalid permit information(.mpa) |
| 7120 | By/For Verification | The Mail Owner was not identified for the physical piece due to invalid permit information(MailPiece) |
| 7121 | By/For Verification | The Mail Preparer was not identified for the physical piece due to invalid permit information(QualReport) |
| 7122 | By/For Verification | The Mail Preparer was not identified for the piece range due to invalid permit information(QualReport) |
| 7123 | By/For Verification | The Mail Owner was not identified for the physical piece due to an invalid publication number(.mpa) |
| 7124 | By/For Verification | The Mail Owner was not identified for the physical piece due to an invalid publication number(MailPiece) |
| 7125 | By/For Verification | The Mail Preparer was not identified for the physical piece due to an invalid publication number(QualReport) |
| 7126 | By/For Verification | The Mail Preparer was not identified for the piece range due to an invalid publication number(QualReport) |
| 7127 | By/For Verification | The Mail Preparer was not identified for the piece range due to an invalid Mailer ID(.imr) |
| 7128 | By/For Verification | The Mail Preparer was not identified for the piece range due to an invalid CRID(.imr) |
| 7129 | By/For Verification | The Mail Preparer was not identified for the piece range due to an invalid Mailer ID(PieceRange) |
| 7130 | By/For Verification | The Mail Preparer was not identified for the piece range due to an invalid Mailer ID(QualReport) |
| 7131 | By/For Verification | The Mail Preparer was not identified for the piece range due to an invalid CRID(PieceRange) |
| 7132 | By/For Verification | The Mail Preparer was not identified for the piece range due to an invalid CRID(QualReport) |
| 7133 | By/For Verification | The Mail Preparer was not identified for the piece range due to no Mail Preparer identifiers in the eDoc |
| 7134 | By/For Verification | The Mail Owner was not identified for the piece range due to an invalid Mailer ID(.imr) |
| 7135 | By/For Verification | The Mail Owner was not identified for the piece range due to an invalid CRID(.imr) |
| 7136 | By/For Verification | The Mail Owner was not identified for the piece range due to an invalid Mailer ID(Piece Range) |
| 7137 | By/For Verification | The Mail Owner was not identified for the piece range due to an invalid CRID(PieceRange) |
| 7138 | By/For Verification | The Mail Owner was not identified for the piece range due to an invalid CRID(QualReport) |
| 7139 | By/For Verification | The Mail Owner was not identified for the piece range due to no Mail Owner identifiers in the eDoc |
| 7140 | By/For Verification | The mail owner and preparer were identified by the same CRID. The owner should directly benefit from the mailing and pay postage directly or by way of a mailing agent. |
| 7141 | By/For Verification | The mail owner and preparer where identified as the same business entity. The owner should directly benefit from the mailing and pay postage directly or by way of a mailing agent. |


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| ERROR CODE | REPORT TYPE | FUNCTIONAL DESCRIPTION |
|---|---|---|
| 7142 | By/For Verification | The identified owner has previously been identified as a mail preparer. The owner should directly benefit from the mailing and pay postage directly or by way of a mailing agent. |
| 7143 | By/For Verification | The identified owner is a known mail service preparer. The owner should directly benefit from the mailing and pay postage directly or by way of a mailing agent. |
| 7239 | CSA Verification | The CSA ID was not provided in the eDoc(.seg/.csm or QualReport) for the Origin entered Container when a First Class CSA exists in FAST based on the Mail Facility ID and Processing Category |
| 7240 | CSA Verification | The CSA from the eDoc(.seg/.csm or QualReport) is invalid or a match cannot be found in FAST for the associated container record(.csm or QualReport) |
| 7242 | CSA Verification | The CSA associated to an eDoc Container record(.csm or QualReport) does not have an Active status in FAST |
| 7243 | CSA Verification | The eDoc Scheduled Ship/Induction Date(.csm or QualReport) is before the CSA Effective Date in FAST for the associated container record(.csm or QualReport) |
| 7244 | CSA Verification | The eDoc Principal Processing Category(.seg or QualReport) does not match the CSA Processing Category in FAST for the associated eDoc container record(.csm or QualReport) |
| 7245 | CSA Verification | The eDoc Container Level Code(.csm or QualReport) does not match the CSA Processing Code in FAST for the associated eDoc container record(.csm or QualReport) |
| 7246 | CSA Verification | The eDoc Container Destination ZIP(.csm or QualReport) does not match the CSA Container Destination ZIP in FAST for the associated eDoc container record(.csm or QualReport) |
| 7247 | CSA Verification | The eDoc Entry Point Locale Key(.csm or QualReport) does not match the CSA Facility Locale Key in FAST for the associated eDoc container record(.csm or QualReport) |
| 7248 | CSA Verification | The eDoc Scheduled Ship/Induction Date(.csm or QualReport) does not match the CSA Day of Week in FAST for the associated eDoc container record(.csm or QualReport) |
| 7301 | Mailer ID Verification | The Mailer ID in the IMcb from the eDoc container record (.csm or QualReport) is invalid or cannot be found for the associated container. |
| 7302 | Mailer ID Verification | The Mailer ID in the IMtb from the eDoc handling unit record (.csm or QualReport) is invalid or cannot be found for the associated container |
| 7304 | Mailer ID Verification | The Mailer ID in the IMb from the eDoc piece record (.pdr or MailPiece) is invalid or cannot be found for the associated piece |
| 7303 | Mailer ID Verification | The Mailer ID in the Piece Range Serialization from the eDoc piece range (.imr or PieceRange) is invalid or cannot be found for the associated piece range |
| 7401 | Service Type ID Verification | The Service Type Identifier in the IMb from the eDoc piece record (.pdr or MailPiece) is invalid |


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| ERROR CODE | REPORT TYPE | FUNCTIONAL DESCRIPTION |
|---|---|---|
| 7402 | Service Type ID Verification | The Service Type Identifier in the IMb from the eDoc piece record (.pdr or MailPiece) indicates the piece is Basic for a Full-Service Piece as part of a Full-Service or Mixed Job |
| 7403 | Service Type ID Verification | The Service Type Identifier in the IMb from the eDoc piece record (.pdr or MailPiece) indicates a Mail Class that does not match the Mail Class in the eDoc (.seq or QualReport) |
| 7404 | Service Type ID Verification | The Service Type Identifier in the IMb from the eDoc piece range record (PieceRange) is invalid |
| 7405 | Service Type ID Verification | The Service Type Identifier in the IMb from the eDoc piece range record (PieceRange) indicates the piece is Basic for a Full-Service Piece as part of a Full-Service or Mixed Job |
| 7406 | Service Type ID Verification | The Service Type Identifier in the IMb from the eDoc piece range record (PieceRange) indicates a Mail Class that does not match the Mail Class in the eDoc (QualReport) |
| 7502 | Unique Container Barcode Verification | The same Container Barcode(IMcb) from the eDoc(.csm or QualReport) was used more than once within 45 days from the Postage Statement Mailing Date, across Jobs and Mail Facility IDs |
| 7503 | Unique Container Barcode Verification | The same Container Barcode (IMcb) from the eDoc (.csm or QualReport) was used more than once within 45 days from the Postage Statement Mailing Date, within the same Job and Mail Facility ID |
| 7504 | Unique Container Barcode Verification | The same Container Barcode (IMcb) from the eDoc (.csm or QualReport) was used more than once within 45 days from the Postage Statement Mailing Date, across Jobs with the same Mail Facility ID |
| 7605 | Unique Handling Unit Barcode Verification | The same Tray Barcode(IMtb) from the eDoc(.csm or QualReport) was used more than once within 45 days from the Postage Statement Mailing Date, across Jobs and Mail Facility IDs |
| 7603 | Unique Handling Unit Barcode Verification | The same Tray Barcode (IMtb) from the eDoc (.csm or QualReport) was used more than once within 45 days from the Postage Statement Mailing Date, within the same Job and Mail Facility ID |
| 7604 | Unique Handling Unit Barcode Verification | The same Tray Barcode (IMtb) from the eDoc (.csm or QualReport) was used more than once within 45 days from the Postage Statement Mailing Date, across Jobs with the same Mail Facility ID |
| 7703 | Unique Piece Barcode Verification | The same Piece Barcode(IMb) from the eDoc(.csm or MailPiece) was used more than once within the 45 days from the Postage Statement Mailing Date, across Jobs and Mail Facility IDs |
| 7704 | Unique Piece Barcode Verification | The same Piece Barcode (IMb) from the eDoc (.pdr or MailPiece) was used more than once within 45 days from the Postage Statement Mailing Date, within the same Job and Mail Facility ID |
| 7705 | Unique Piece Barcode Verification | The same Piece Barcode (IMb) from the eDoc (.pdr or MailPiece) was used more than once within 45 days from the Postage Statement Mailing Date, across Jobs with the same Mail Facility ID |


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| ERROR CODE | REPORT TYPE | FUNCTIONAL DESCRIPTION |
|---|---|---|
| 7706 | Unique Piece Range Barcode Verification | The same Piece Range Serialization(IMb) from the eDoc(.imr or PieceRange) was used more than once within the 45 days from the Postage Statement Mailing Date, across Mail Facility IDs |
| 7707 | Unique Piece Range Barcode Verification | The same Piece Range Serialization(IMb) from the eDoc(.imr or PieceRange) was used more than once within 45 days from the Postage Statement Mailing Date, within the same Job and Mail Facility ID |
| 7708 | Unique Piece Range Barcode Verification | The same Piece Range Serialization(IMb) from the eDoc(.imr or PieceRange) was used more than once within 45 days from the Postage Statement Mailing Date, across Jobs with the same Mail Facility ID |
| 7901 | Delivery Point Verification | IMb does not have a valid 11, 9, or 5 digit delivery point or the 11, 9, or 5 digit delivery point was not active within allowable period of time from the postage statement mailing date |
| 7902 | Delivery Point Verification | IMb has a value of '0000' within positions 6-9 of the delivery point |
| 7903 | Delivery Point Verification | IMb has a value of '9999' within positions 6-9 of the delivery point and the address record type is not 'General Delivery' |
| 7904 | Delivery Point Verification | IMb within the range does not have a valid 11, 9, or 5 digit delivery point or the 11, 9, or 5 digit delivery point was not active within allowable period of time from the postage statement mailing date |
| 7905 | Delivery Point Verification | IMb within the range has a value of '0000' within positions 6-9 of the delivery point |
| 7906 | Delivery Point Verification | IMb within the range has a value of '9999' within positions 6-9 of the delivery point and the address record type is not 'General Delivery' |
| 7602 | Default IMtb Code Error | The eDoc tray barcode(.csm or QualReport) provided is 24 characters and consists entirely of the digit 9 (i.e. 999999999999999999999999) |
| 7016 | Entry Facility Verification | The entry facility identified by the Locale Key within the container was unknown in FDB |
| 7017 | Entry Facility Verification | The entry facility identified by the Postal Code within the container was unknown in FDB |
| 7018 | Entry Facility Verification | The entry facility identified by the Locale Key within the orphan handling unit was unknown in FDB |
| 7019 | Entry Facility Verification | The entry facility identified by the Postal Code within the orphan handling unit was unknown in FDB |
| 7020 | Service Performance Verification | The Postage Statement Finalization Date is 2 or more days after the Scheduled Ship Date for the DMU Verified, USPS Transported Physical Container |
| 7021 | Service Performance Verification | The Postage Statement Finalization Date is 2 or more days after the Scheduled Ship Date for the DMU Verified, USPS Transported Physical Handling Unit |
| 7022 | Service Performance Verification | The Orphan Handling Unit does not have an induction method of BMEU. |

**Table 2-6 Mail Quality Verification Response Return Code Value**


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## 2.2 Fulfillment of Unassociated ACS Records

Currently, when ACS (Address Change Service) generates COA (Change of Address) and Nixie records with a Full Service STID, these records are sent to SASP for fulfillment. SASP attempts to associate these records to electronic documentation for a period of 35 days. If the ACS records are unable to be associated within the 35-day period, SASP discards the records.

SASP sends reports for records with electronic documentation to the *PostalOne!* system.

SASP sends reports for unassociated and multiple notification (expired) records and provides this feedback to ACS. ACS uses this information to create invoices when appropriate.

## 2.3 ACS Billing

Currently ACS does not bill for records with a Full Service STID that qualify for Full Service discounts and benefits. These records are fulfilled free of charge through the Full Service platform.

ACS updates the mailpiece records with billing data after receiving the billing files from SASP. As per established ACS billing policies, ACS will generate monthly invoices to send to mailers when account balances are over a configurable value (currently set to $50); otherwise, invoices will be sent to mailers on March 24th or October 24th.

ACS will send a monthly file to Customer Registration containing all CRIDs to be invoiced. Customer Registration will use this information to retrieve billing contact information for the BSA of managed mailing activity based on the mail owner CRID and will send this information back to ACS in order to generate invoices.

## 2.4 Deactivating Full Service Data Feedback for Delinquent Accounts

The account of a mail owner that does not make a payment within 30 days of the invoice creation date will be considered delinquent. Implementing a new interface between SASP and the *PostalOne!* system will update a Mail Owner's delinquent account status.

ACS sends mail owner CRIDs for delinquent accounts to the *PostalOne!* system, which will deactivate the Mail Owner’s access to Full Service ACS feedback. Accounts can be reactivated when ACS sends activation records for mail owner CRIDs after a payment has been received.

## 2.5 General Considerations when using Full Service Query Request Messages

With all key fields in Full Service ACS and Nixie requests annullable, there is a chance that very large datasets may be returned which could potentially cause some performance and timeout issues. Mailers are expected to provide one of the following fields in the Mail.XML request message: Mail.dat Job ID/User License Code or Mailing Group ID or MID on Piece. Mailers are required to limit the date range search to one week only.


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# 3. Message Choreography for Data Distribution

| No | Message Name | Description | Customer | USPS *PostalOne!* |
|---|---|---|---|---|
| 1 | StartTheClockQuery Request | The customer requests the Start-the-Clock data by providing appointment and job information for which Start-the-Clock data is needed. The date range of upper and lower is necessary to receive data from the USPS. | From | |
| 2 | StartTheClockQuery Response | The USPS responds with the Start-the-Clock data for the job and provides the data for plant-loaded mail in the plant loaded XML block, data for drop shipped mail in the drop shipped XML block, and BMEU-entered mail data in the BMEU XML block. | | From |
| 3 | ContainerVisibilityQ ueryRequest | The customer can request container visibility information from the USPS by providing the job information, appointment/trip information, facility id, and container information or container barcodes. | From | |
| 4 | ContainerVisibilityQ ueryResponse | The USPS responds with the Container Induction detail data by providing scan dates and times as well as any conflicts with the container back to the customer. | | From |
| 5 | AddressCorrectionQ ueryRequest | The customer can request address correction information from the USPS by providing the job information and date ranges and optional piece barcode range information. | From | |
| 6 | AddressCorrectionQ ueryResponse | The USPS, in response to the requests, sends all the address correction data pertinent to the request. | | From |
| 7 | NixieDetailQueryRe quest | The customer can request Nixie information from the USPS by providing the CRID, MID, and by providing the job information, class of mail, date ranges and optional piece barcode range information. | From | |
| 8 | NixieDetailRespons e | The USPS, in response to the requests, sends all the Nixie detail data by MID and Job information back to the customer. | | From |
| 10 | StartTheClockNotific ation | The USPS sends this notification to the customer and provides the Job information for which the Start-the-Clock data is ready | | From |
| 11 | StartTheClockDelive ry | The USPS sends this detail data delivery to the customer with all the data available in the StartTheClockQueryResponse message | | From |
| 12 | ContainerVisibilityN otification | The USPS sends this notification to the customer and provides the Job information for which the ContainerVisibility data is ready | | From |
| 13 | ContainerVisibilityD elivery | The USPS sends this detail data delivery to the customer with all the data available in the ContainerVisibilityQueryResponse message | | From |
| 14 | AddressCorrectionN otification | The USPS sends this notification to the customer and provides the Job information for which the AddressCorrection data is ready | | From |
| 15 | AddressCorrectionD elivery | The USPS sends this detail data delivery to the customer with all the data available in the AddressCorrection QueryResponse message | | From |
| 16 | NixieDetailNotificatio n | The USPS sends this notification to the customer and provides the Job information for which the NixieDetail data is ready | | From |
| 17 | NixieDetailDelivery | The USPS sends this detail data delivery to the customer with all the data available in the NixieDetailQueryResponse message | | From |
| 18 | NonComplianceDat aWithPostageOwed | The USPS sends this notification to the customer providing information on data availability | | From |


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| No | Message Name | Description | Customer | USPS *PostalOne!* |
|---|---|---|---|---|
| | ReportNotification | | | |
| 19 | NonComplianceDataWithPostageOwedReportDelivery | The USPS send the detail data to customer server | | From |
| 20 | NonComplianceDataWithPostageOwedQueryRequest | The USPS customer constructs the message and send it to USPS servers | From | |
| 21 | NonComplianceDataWithPostageOwedReportQueryResponse | The USPS responds to the Query Request message with either data or error code through this message. | | From |
| 22 | NotificationResponse | This message is used in response to all messages that end in the word 'Notification' | From | |
| 23 | DeliveryResponse | This message is used in response to all messages that end in the word 'Delivery' | From | |

**Table 3-1 Message Choreography for Data Distribution**


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# 4. Mail.XML 12.0A Data Feedback Messages

The section below lists all messages that will be supported in the Mail.XML 12.0A specification. This section spells out the business rules and data structure for each of those messages.

## 4.1 AddressCorrection Delivery

This is a push message to provide address correction.

**Prerequisites**

Mailer has subscribed to receive AddressCorrection Delivery messages

**ACS Data Recipient Determination Process**

- Mailer submits eDoc for a Job, Postage Statement is Finalized
- USPS performs By/For Verification
- USPS validate whether Mail Owner MID provided in CPT/MPA/IMR record in eDoc.
- USPS identifies Mail Owner by MID based on Order of Preference
- USPS looks up Data Distribution Profile by Mailer Owner's MID
- USPS verifies whether Data Distribution Profile Exists
- USPS determines Data Recipient CRID based on Profile
- USPS attaches the Data Recipient CRID to the Piece/Piece Range Record

**ACS Association and Feedback Process**

- USPS receives ACS COA records
- USPS associates ACS COA records with Piece/Piece Range records
- USPS provides ACS Feedback to Data Recipient CRID attached to the Piece/Piece Range record
- USPS pushes the AddressCorrection Delivery message to the Mailer's web service end point

**Business Rules**

With each AddressCorrection Delivery message, if the customer has registered with the *PostalOne!* system to receive the message, the *PostalOne!* system will provide the

- OPTIONAL LargeTransactionDividerGroupOptionalType. This type is created to allow breaking up of any large data into multiple transactions, with Feet Ahead concept, where the sender of the large data is providing information about how many total transactions and records to expect and what is the current transaction number among the total expected transactions etc. as part of this one business transaction.
- MessageGroupID – It is a Sequence Number and will remain the same until all the transactions are completed, e.g., MessageGroupID is 10, indicating all the transactions with MessageGroupID 10 are one business transaction.
- TotalMessageCount - This element tells the receiver that for MessageGroupID of 10 expect a total of X transactions; the X is a positive integer.
- MessageSerialNumber – This is a serial number that indicates the ordinal number of the transaction within the MessageGroupID, so the receiver can tell which transaction (first, second, third, etc.) is being referenced within the MessageGroupID with respect to the TotalMessageCount. The series always begins at 1 for each set of transactions within a given MessageGroupID.
- TransmittedRecordCount – is count of records in the current message transaction.
- TotalRecordsAcrossMessages – This is the total expected record count when the receiver of the MessageGroupID has received all messages.
- LastMessage – is a Yes or No indicator confirming for the receiver that this transaction is the last transaction of the MessageGroupID e.g., MessageGroupID 10.
- SubmittingParty – The *PostalOne!* system for all Notification and Delivery messages will always put a value of 'USPS' in the MaildatUserLicense field.


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- SubmittingSoftware – The *PostalOne!* system for all Notification and Delivery messages will always put:
  - The value of 'PostalOne' in the SoftwareName element
  - The value of 'USPS' in the vendor element
  - The most current version number available, such as 19.0 or 20.0 in the Version element
  - The *PostalOne!* system will not fill any values in the ApprovalDate and ApprovalKey elements
  - The CRID element is for industry usage and is optional. For the Delivery messages, the *PostalOne!* system will not populate this element.
- The *PostalOne!* system will provide the job information, either the Mail.dat Job ID and User License Code, OR the Customer Group ID and MailingGroupID for Mail.XML/Postal Wizard to the customer.
- The *PostalOne!* system will send one or more AddressCorrection blocks.
- The *PostalOne!* system will provide Move Type to identify the type of move for Individual, Family or Business (indicated by values 'I', 'F', or 'B' respectively).
- The COAName element will be used to identify the following:
- Individual/Family Move Type = Last Name, First Name, Prefix and Suffix
- Business Move Type = BusinessName will be utilize to provide business name information
- The ClassNotificationType element will be used to identify the mail class of the mail piece that generated the ACS COA notification for the following values:
  - 'A' = Package Services (Bound Printed Matter)
  - 'B' = First-Class
  - 'C' = Periodicals Initial
  - 'D' = Standard Mail
  - 'F' = Periodicals Follow-up
- The DeliverabilityCodeType element will be used to identify the deliverability status of the mailpiece that generated the ACS COA notification for the following values:
  - <blank> = COA Match with new address
  - 'K' = COA Match, no forwarding address
  - 'G' = COA Match, PO Box Closed, no forwarding address
  - 'W' = COA Match with a temporary COA
- The AddressType element will be used to identify the type of address from which the customer is moving for the following values:
  - 'G' = General Delivery
  - 'H' = Highway Contract Route
  - 'P' = Post Office Box
  - 'R' = Rural Route
  - 'S' = Street Address

### 4.1.1 AddressCorrection Delivery Field Description

| **AddressCorrection Delivery** | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Values** | **Business Rules** | **Comments** |
| AddressCorrection Delivery BEGINS | | | | |
| LargeTransactionDividerGroup OptionalType | LargeTransactionDividerGroup OptionalType Attribute block | - | Attribute block | Refer to this attribute block in Section 5 |


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| AddressCorrection Delivery | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Values** | **Business Rules** | **Comments** |
| SubmittingParty | participantIDType complex type | - | Optional | Refer to this complex type in Section 5 |
| SubmittingSoftware | SubmittingSoftwareType complex type | - | Optional | Refer to this complex type in Section 5 |
| DataRecipient | dataRecipient complex type | - | Optional | Refer to this complex type in Section 5 |
| PushMessageID | String, Length 25 | - | Optional | - |
| AddressCorrection | AddressCorrection Type Complex type | - | Required1 to many | Refer to this complex type in Section 5 |
| AddressCorrection Delivery ENDS | | | | |

## 4.2 AddressCorrectionNotification

This is the Notification message to customer for availability of address correction information.

**Prerequisites**

Mailer has subscribed to receive AddressCorrection Notification messages

**ACS Data Recipient Determination Process**

- Mailer submits eDoc for a Job, Postage Statement is Finalized
- USPS performs By/For Verification
- USPS validate whether Mail Owner MID provided in CPT/MPA/IMR record in eDoc.
- USPS identifies Mail Owner by MID based on Order of Preference
- USPS looks up Data Distribution Profile by Mailer Owner's MID
- USPS verifies whether Data Distribution Profile Exists
- USPS determines Data Recipient CRID based on Profile
- USPS attaches the Data Recipient CRID to the Piece/Piece Range Record

**ACS Association and Feedback Process**

- USPS receives ACS COA records
- USPS associates ACS COA records with Piece/Piece Range records
- USPS provides ACS Feedback to Data Recipient CRID attached to the Piece/Piece Range record
- USPS pushes the AddressCorrection Notification message to the Mailer's web service end point

**Business Rules**

With each AddressCorrection Notification message, if the customer has registered with the *PostalOne!* system to receive the message, the *PostalOne!* system will provide the

1. SubmittingParty – The *PostalOne!* system for all Notification and Delivery messages will always put a value of 'USPS' in the MaildatUserLicense field.
2. SubmittingSoftware – The *PostalOne!* system for all Notification and Delivery messages will always put:
   a. The value of 'PostalOne' in the SoftwareName element
   b. The value of 'USPS' in the vendor element
   c. The most current version number available, such as 19.0 or 20.0 in the Version element
   d. The *PostalOne!* system will not fill any values in the ApprovalDate and ApprovalKey elements
3. The CRID element is for industry usage and is optional. For the Delivery messages, the *PostalOne!* system will not populate this element.


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4. The *PostalOne!* system will provide the job information, either the Mail.dat Job ID and User License Code, OR the Customer Group ID and MailingGroupID for Mail.XML/Postal Wizard to the customer.
5. The P*ostalOne!* system will provide the Notification Date, which is the date when the message is transmitted.

### 4.2.1 AddressCorrectionNotification Field Description

| **AddressCorrectionNotification** | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Values** | **Business Rules** | **Comments** |
| AddressCorrection Notification BEGINS | | | | |
| SubmittingParty | participantIDType complex type | - | Optional | Refer to this complex type in Section 5 |
| SubmittingSoftware | SubmittingSoftware complex type | - | Optional | Refer to this complex type in Section 5 |
| CRID | CRIDType simple type | - | Optional | Refer to this simple type in Section 6 |
| PushMessageID | String 25 | - | Optional | - |
| Choice Block BEGINS | | | Optional Choice Block. | |
| UserLicenseCode | userLicenseCodeTyp e simple type | | Required when Mail.dat is used | Refer to this simple type in Section 6 |
| MaildatJobID | jobIDType simple type | - | Required when Mail.dat is used | Refer to this simple type in Section 6 |
| CustomerGroupID | String, 25 character | - | Optional | - |
| MailingGroupID | Non Negative Integer | - | Required when Mail.XML 12.0A is used | - |
| Choice Block ENDS | | | | |
| Notification Date | Date | yyyy-mm-dd | Required | - |
| FSNonFSAvailabilityD ate | Date | yyyy-mm-dd | Required | - |
| AddressCorrection Notification ENDS | | | | |

## 4.3 AddressCorrectionQueryRequest

This is request message to pull COA data.

**Prerequisites**

- Customer uses Mail.XML 12.0A spec
- USPS validates the request messages
- USPS retrieves the data based on the search criteria provided in the request
- USPS returns response to the Customer

**Business Rules**

With each AddressCorrection QueryRequest message, the customer needs to provide information for all required blocks. The business rules defined below are not necessarily for required elements.

- SubmittingParty – The *PostalOne!* system for all data distribution for full-service messages, i.e., non-FAST, non-eDoc messages, will only accept a MID or a CRID as a valid ID.
- SubmittingSoftware – The *PostalOne!* system for messages that it receives for the Mail.XML will always require
  - A valid software name in the SoftwareName element
  - A valid software vendor company name in the vendor element
  - The most current version number of the software in the Version element
  - A valid Approval Date and a valid Approval Key in the ApprovalDate and ApprovalKey elements. The approval date is the date when the USPS approved the software usage in the USPS production environment


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and a valid Approval Key is what the USPS provided to the Software Vendor or Mailer (who may have developed their own software) as authorization to use in all messages.

- The OwningParty information can also be provided optionally, if the data is requested by third parties based upon existing profiles or cast of characters messages.
- The customer shall also provide piece information such as optional piece ranges and job info, as well as date ranges by providing one or more PieceRequest blocks.

### 4.3.1 AddressCorrectionQueryRequest Field Description

| AddressCorrectionQueryRequest | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Values** | **Business Rules** | **Comments** |
| AddressCorrection QueryRequest BEGINS | | | | |
| SubmittingParty | participantIDType complex type | - | Optional | Refer to this complex type in Section 5 |
| SubmittingSoftware | submittingSoftwareType complex type | - | Optional | Refer to this complex type in Section 5 |
| SubmitterTrackingID | mailxml_base:s20 | | Required | Refer to this simple type in Section 6 |
| OwningParty | participantIDType complex type | - | Optional | Refer to this complex type in Section 5 |
| Piece Request Block BEGINS | | | Required 1 to many allowed | |
| Mail Class | mailClassType simple type | - | Optional | Refer to this simple type in Section 6 |
| Choice Block BEGINS | | | Optional | |
| LowerIMBRange | iMBType simple type | - | Required | Refer to this simple type in Section 6 |
| UpperIMBRange | iMBType simple type | - | Required | Refer to this simple type in Section 6 |
| Choice Block ENDS | | | | |
| Choice Block BEGINS | | | Optional Choice block. Either UserLicenceCode/MaildatJobID OR CustomerGroupID/MailingGroupID | |
| UserLicenseCode | userLicenseCodeType simple type | | Required when Mail.dat is used | Refer to this simple type in Section 6 |
| MaildatJobID | jobIDType simple type | - | Required when Mail.dat is used | Refer to this simple type in Section 6 |
| CustomerGroupID | String, 25 character | - | Optional | - |
| MailingGroupID | Non Negative Integer | - | Required when Mail.XML 12.0A is used | - |
| Choice Block ENDS | | | | |
| Date Range Block BEGINS | | | Required block | |
| LowerDateRange | Date | yyyy-mm-dd | Required | This date is a *PostalOne!* date starting in March 2010 to make sure time delay issues when the data is received by the *PostalOne!* system don't have any impact |


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| AddressCorrectionQueryRequest | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Values** | **Business Rules** | **Comments** |
| | | | | to the customer querying the data. |
| UpperDateRange | Date | yyyy-mm-dd | Required | See Lower Date Range comment above. |
| Date Range Block ENDS | | | | |
| Piece Request Block ENDS | | | | |
| AddressCorrection QueryRequest ENDS | | | | |

## 4.4 AddressCorrectionQueryResponse

This message sends the actual COA data back to the requestor.

**Prerequisites**

- Customer uses Mail.XML 12.0A spec
- USPS validates the request messages
- USPS retrieves the data based on the search criteria provided in the request
- USPS returns response to the Customer

**Business Rule**

- With each AddressCorrection QueryResponse message, the *PostalOne!* system will provide the
  - Mandatory LargeTransactionDividerGroupType. This type is created to allow breaking up of any large data into multiple transactions, with Feet Ahead concept, where the sender of the large data is providing information about how many total transactions and records to expect, and what is the current transaction number among the total expected transactions etc. as part of this one business transaction.
  - MessageGroupID – It is a Sequence Number and will remain the same until all the transactions are completed, e.g., MessageGroupID is 10 and until the last transaction is received on this business transaction, the MessageGroupID will remain 10 for all transactions, so the receiver knows that all the transactions with MessageGroupID 10 are one business transaction.
  - TotalMessageCount - This element tells the receiver that for MessageGroupID of 10 expect a total of X transactions, the X is a positive integer.
  - MessageSerialNumber – This is a serial number that indicates the ordinal number of the transaction within the MessageGroupID, so the receiver can tell which transaction (first, second, third, etc.) is being referenced within the MessageGroupID with respect to the TotalMessageCount. The series always begins at 1 for each set of transactions within a given MessageGroupID.
  - TransmittedRecordCount – is count of records in the current message transaction.
  - TotalRecordsAcrossMessages – This is the total expected record count when all transactions have been received by the receiver for the MessageGroupID.
  - LastMessage – is an optional Yes or No indicator confirming for the receiver that this transaction is the last transaction of the MessageGroupID e.g., MessageGroupID 10.
- The AddressCorrectionQueryResponse has two major choice blocks. One is QueryResults and the other is QueryErrors.
- In QueryResults block:
  - The customer will receive zero or more AddressCorrection blocks with job information and address correction information.
- The customer may also optionally receive Return Codes and Descriptions as part of the Query Results.
- In QueryError block:


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- The QueryError Block provides zero or more return codes and descriptions to communicate any issues with the response of the query.

### 4.4.1 AddressCorrectionQueryResponse Field Description

| AddressCorrectionQueryResponse | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Values** | **Business Rules** | **Comments** |
| AddressCorrection QueryResponse BEGINS | | | | |
| LargeTransactionDividerGroupType | LargeTransactionDividerGroupType attribute | | Required | Refer to this attribute group in Section 7 |
| TrackingID | String 20 | - | Conditionally Required when the block data is provided | |
| SubmitterTrackingID | mailxml_base:s20 | | Required | Refer to this simple type in Section 6 |
| Choice Block BEGINS | | | Either QueryResults block or QueryError block will be returned | |
| QueryResult Block BEGINS | | | | |
| LargeTransactionDividerResult | LargeTransactionDividerResult attribute | - | Optional | Refer to this attribute block in Section 5 |
| AddressCorrection | AddressCorrection Type Complex Type | - | Optional0 to many | Refer to this complex type in Section 5 |
| Query Result Block ENDS | | | | |
| Query Error Block BEGINS | | | | |
| ReturnInfo | basicReturnInfo complex type | - | Required | Refer to this complex type in Section 5 |
| Query Error Block ENDS | | | | |
| Choice Block ENDS | | | | |
| AddressCorrection QueryResponse ENDS | | | | |

## 4.5 ByForConflictDelivery

This message is pushed by USPS to customer end server providing By/For conflict data.

Prerequisites

- Mailer has subscribed to receive By/For Conflict Delivery messages.
- Mailer has subscribed to receive By/For Conflict Notification messages.
- Mailer submits Mail.dat jobs or Mail XML eDoc messages to the *PostalOne!* system
- USPS checks the availability of By/For Conflict data about discrepancy within the eDoc at different levels for the owner and preparer information.
- USPS pushes the notification message to the Mailer's web service end point.
- USPS pushes ByForConflictDelivery message to the Mailer's web service end point.

**Business Rules**

If the customer has registered with the *PostalOne!* system to receive the message, the *PostalOne!* system will provide the By/For Conflict detail data to the customer about By For Conflicts if the customer has registered for By For Conflict Delivery messages and shall send a delivery message to the customer

### 4.5.1 ByForConflictDelivery Field Description


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| ByForConflictDelivery | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Values** | **Business Rules** | **Comments** |
| LargeTransactionDividerGroup OptionalType | LargeTransactionDividerGroup OptionalType Attribute block | - | Required | Refer to this attribute block in Section 5 |
| SubmittingParty | participantIDType complex type | | Optional | Refer to this complex type in Section 5 |
| SubmittingSoftware | SubmittingSoftware complex type | | Optional | Refer to this complex type in Section 5 |
| DataRecipient | dataRecipient Complex Type | - | Optional | Refer to this complex type in Section 5 |
| PushMessageID | String 25 | - | Optional | |
| ByForConflict | byForConflictType complex type | - | Required; 1 to many allowed | Refer to this complex type in Section 5 |

## 4.6 ByForConflictNotification

This message is sent by USPS to customer end server notifying them with the availability of By/For conflict data.

Prerequisites

- Mailer has subscribed to receive By/For Conflict Notification messages
- Mailer submits Mail.dat jobs or Mail XML eDoc messages to the *PostalOne!* system.
- USPS checks the availability of By/For Conflict data about discrepancy within the eDoc at different levels for the owner and preparer information.
- USPS pushes the notification message to the Mailer's web service end point

Business Rules

If the customer has registered with the *PostalOne!* system to receive the message, the *PostalOne!* system will provide a date of notification and will provide the job information, either the Mail.dat Job ID and User License Code, OR the Customer Group ID and MailingGroupID for Mail.XML/Postal Wizard to the customer.

### 4.6.1 ByForConflictNotification Field Description

| ByForConflictNotification | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Values** | **Business Rules** | **Comments** |
| SubmittingParty | ParticipantIDType complex type | - | Optional | Refer to this complex type in Section 5 |
| SubmittingSoftware | SubmittingSoftware complex type | - | Optional | Refer to this complex type in Section 5 |
| PushMessageID | String 25 | - | Optional | - |
| Choice Block BEGINS | | | Optional choice block. Either UserLicenseCode/MaildatJobID or CustomerGroupID/MailingGroupID can be provided. | |
| UserLicenseCode | userLicenseCodeType simple type | | Required when Mail.dat is used | Refer to this simple type in Section 6 |
| MaildatJobID | jobIDType simple type | - | Required when Mail.dat is used | Refer to this simple type in Section 6 |
| CustomerGroupID | String, 25 character | - | Required when Mail.XML version is used | - |
| MailingGroupID | Non Negative Integer | - | Required when Mail.XML12.0A is used | - |


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| ByForConflictNotification | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Values** | **Business Rules** | **Comments** |
| Choice Block ENDS | | | | |
| FSNonFSAvailabilityDate | Date | yyyy-mm-dd | Required | - |
| NotificationDate | Date | yyyy-mm-dd | Required | - |

## 4.7 ByForConflictQueryRequest

This message is sent by customer to pull By/For conflict data.

Prerequisites

- Customer uses Mail.XML version 12.0A
- USPS validates Mail.XML message
- USPS retrieves the data based on the search criteria provided in the request
- USPS returns response to the Customer

Business Rules

With each ByForConflictQueryRequest message, the customer needs to provide information for all required blocks.

- SubmittingParty – For all data distribution for full-service messages (i.e., non-FAST, non-eDoc messages), the *PostalOne!* system will only accept a MID or a CRID as a valid ID.
- SubmittingSoftware – For Mail.XML messages that it receives from the customer, the *PostalOne!* system will always require:
  - A valid software name in the SoftwareName element
  - A valid software vendor company name in the vendor element
  - The most current version number of the software in the Version element
  - A valid Approval Date and a valid Approval Key in the ApprovalDate and ApprovalKey elements. The approval date is the date when the USPS approved the software usage in the USPS production environment and a valid Approval Key is what the USPS provided to the Software Vendor or Mailer (who may have developed their own software) as authorization to use in all messages.

### 4.7.1 ByForConflictQueryRequest Field Description

| ByForConflictQueryRequest | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Values** | **Business Rules** | **Comments** |
| byForConflictQueryRequest BEGINS | | | | |
| SubmittingParty | participantIDType complex type | - | Optional | Refer to this complex type in Section 5 |
| SubmittingSoftware | SubmittingSoftware complex type | - | Optional | Refer to this complex type in Section 5 |
| SubmitterTrackingID | mailxml_base:s20 | | Required | Refer to this simple type in Section 6 |
| Choice Block BEGINS | - | - | Either UserLicenseCode/MaildatJobID OR CustomerGroupID/MailingGroupID will be provided | |
| UserLicenseCode | userLicenseCodeType simple type | | Required when Mail.dat is used | Refer to this simple type in Section 6 |
| MaildatJobID | jobIDType simple type | - | Required when Mail.dat is used | Refer to this simple type in Section 6 |
| CustomerGroupID | String, 25 character | - | Required when Mail.XML version is | |


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| ByForConflictQueryRequest | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Values** | **Business Rules** | **Comments** |
| | | | used | |
| MailingGroupID | Non Negative Integer | - | Required when Mail.XML 12.0A is used | |
| Choice Block ENDS | | | | |
| byForConflictQueryRequest ENDS | | | | |

## 4.8 ByForConflictQueryResponse

This message contains By/For data and is sent upon receiving the request message by customer.

Prerequisites

- Customer uses Mail.XML 12.0A spec
- USPS validates request messages
- USPS retrieves the data based on the search criteria provided in the request
- USPS returns response to the Customer

Business Rules

The ByForConflictQueryResponse has two major choice blocks:

- In QueryResults
  - Data will be filtered based on the request criteria
  - The job information will be returned by the USPS *PostalOne!* system, and the Mail.dat Job information will be returned or Mail.XML job information will be returned. The Mail.dat Job ID and User License Code elements represent Mail.dat information and the Customer Group ID and MailingGroupID represent the Mail.XML/Postal Wizard information.
  - The customer will receive one or more ByForConflict blocks
  - The USPS as part of the QueryResults to communicate any issues can return an optional ReturnCode and Description.
- The QueryError Block provides zero or more return codes and descriptions to communicate any issues with the response of the query.

### 4.8.1 ByForConflictQueryResponse Field Description

| ByForConflictQueryResponse | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Values** | **Business Rules** | **Comments** |
| ByForConflictQueryResponse BEGINS | | | | |
| LargeTransactionDividerGroupType | LargeTransactionDividerGroupType Attribute | - | Required | Refer to this attribute block in Section 5 |
| TrackingID | String 20 | - | Optional<br>Allows user to retrieve the data without resending the request message by using tracking ID in MRRR message | |
| SubmitterTrackingID | mailxml_base:s20 | | Required | Refer to this simple type in Section 6 |
| Choice Block BEGINS | | | Either QueryResult or QueryError block is returned. | |


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| ByForConflictQueryResponse | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Values** | **Business Rules** | **Comments** |
| QueryResult Block BEGINS | | | Required | |
| LargeTransactionDividerResult Block BEGINS | | | Optional | |
| LargeTransactionDivider BEGINS | - | - | Required.<br>1 to many allowed | - |
| TrackingID | String 20 | | Required | |
| LargeTransactionDivider ENDS | | | | |
| LargeTransactionDividerResult Block ENDS | | | | |
| ByForConflict | byForConflictType complex type | | Optional<br>0 to many allowed | Refer to this complex type in Section 5 |
| QueryResult Block ENDS | | | | |
| QueryError Block BEGINS | | | | |
| ReturnInfo | basicReturnInfo complex type | - | Required | Refer to this complex type in Section 5 |
| QueryError Block ENDS | | | | |
| ByForConflictQueryResponse ENDS | | | | |

## 4.9 ContainerVisibilityDelivery

The Postal Service shares processing scan information of IMcb through Full Service at induction. Container Scan for IMcb in Non-Full Service is shared during induction through the eInduction process. IMtb tray scan information is also shared with customers for Full Service.

This is a push message to provide container visibility.

**Prerequisites**

- Mailer has subscribed to receive ContainerVisibilityDelivery messages
- Mailer submits Mail.dat jobs or Mail.XML eDoc messages to the *PostalOne!* system
- USPS validates Mail.XML messages
- USPS processes the Mail.dat jobs or Mail.XML messages, generates postage, and reports
- Postage statement finalization exposes data to SASP
- USPS interprets eDoc information, and performs Full-service verification
- USPS determines Data Recipients and Start-the-Clock
- USPS sends mailer feedback to the *PostalOne!* system
- USPS checks the availability of  data to the mailer
- USPS pushes the Container Visibility message to the mailer's web service end point

**Business Rules**

With each ContainerVisibilityDelivery message, if the customer has registered with the *PostalOne!* system to receive the message, the *PostalOne!* system will provide the:

- OPTIONAL LargeTransactionDividerGroupOptionalType. This type is created to allow breaking up of any large data into multiple transactions, with Feet Ahead concept, where the sender of the large data is providing information about how many total transactions, records to expect, and what is the current transaction number among the total expected transactions etc. as part of this one business transaction.


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- MessageGroupID – It is a Sequence Number and will remain the same until all the transactions are completed, e.g., MessageGroupID is 10 and until the last transaction is received on this business transaction, the MessageGroupID will remain 10 for all transactions, so the receiver knows that all the transactions with MessageGroupID 10 are one business transaction.
- TotalMessageCount - This element tells the receiver that for MessageGroupID of 10 expect a total of X transactions, the X is a positive integer.
- MessageSerialNumber – This is a serial number that indicates the ordinal number of the transaction within the MessageGroupID, so the receiver can tell which transaction (first, second, third, etc.) is being referenced within the MessageGroupID with respect to the TotalMessageCount. The series always begins at 1 for each set of transactions within a given MessageGroupID.
- TransmittedRecordCount – is a count of records in the current message transaction.
- TotalRecordsAcrossMessages – This is the total expected record count when the receiver for the MessageGroupID has received all transactions.
- LastMessage – is a Yes or No indicator confirming for the receiver that this transaction is the last transaction of the MessageGroupID. For example:  MessageGroupID 10.
- SubmittingParty – The *PostalOne!* system for all Notification and Delivery messages will always put a value of 'USPS' in the MaildatUserLicense field.
- SubmittingSoftware – The *PostalOne!* system for all Notification and Delivery messages will always put
- The value of 'PostalOne' in the SoftwareName element
- The value of 'USPS' in the vendor element
- The most current version number available, such as 19.0 or 20.0 in the Version element
- The *PostalOne!* system will not fill any values in the ApprovalDate and ApprovalKey elements
- The CRID element is for industry usage and is optional. For the Delivery messages, the *PostalOne!* system will not populate this element.
- The *PostalOne!* system will provide the job information, either the Mail.dat Job ID and User License Code, OR the Customer Group ID and MailingGroupID for Mail.XML to the customer.
- The *PostalOne!* system will send one or more ContainerVisibility blocks.
- Electronic Shipping info Received  - USPS received electronic Container or Tray information
- Entered at USPS - The Container was Entered at USPS <Facility Name>*
- Enroute Arrive - The Container or Tray arrived at <Facility Name>*
- Enroute - The Tray was processed at <Facility Name>*
- Enroute Departure - The Tray departed from <Facility Name>*
- *USPS name of Scan Facility
- Full-service ACS™ COA and Nixie data grouping: All XML Messages for the Full-service ACS COA and Full-service ACS Nixie data are grouped by Mail.dat Job ID/User License Code OR Mailing Group/Container Group AND Data Recipient CRID. The data recipient CRID is attached to the Full-service ACS transactions by the SASP system based upon the eDoc By/For and/or the MID profile/Cast of Characters communication.

### 4.9.1 ContainerVisibilityDelivery Field Description

| **ContainerVisibilityDelivery** | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Values** | **Business Rules** | **Comments** |
| ContainerVisibilityDelivery BEGINS | | | | |
| LargeTransactionDividerGroup OptionalType | LargeTransactionDividerGroup OptionalType Attribute | - | Required | Refer to this attribute block in Section 5 |
| SubmittingParty | participantIDType | - | Optional | Refer to this complex |


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| ContainerVisibilityDelivery | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Values** | **Business Rules** | **Comments** |
| | complex type | | | type in Section 5 |
| SubmittingSoftware | SubmittingSoftware complex type | - | Optional | Refer to this complex type in Section 5 |
| DataRecipient | dataRecipient complex type | - | Optional | Refer to this complex type in Section 5 |
| PushMessageID | String 25 | - | Optional | - |
| ContainerVisibilityEntry | ContainerVisibilityEntry complex type | - | Required1 to many | Refer to this complex type in Section 5 |
| ContainerVisibilityDelivery ENDS | | | | |

## 4.10 ContainerVisibilityNotification

The Postal Service shares processing scan information of IMcb through Full Service at induction. Container Scan for IMcb in Non-Full Service is shared during induction through the eInduction process. IMtb tray scan information is also shared with customers for Full Service.

This is the Notification message to customers, which provides them with information on their containers.

**Prerequisites**

- Mailer has subscribed to receive ContainerVisibilityNotification messages
- Mailer submits Mail.dat jobs or Mail.XML eDoc messages to the *PostalOne!* system
- USPS validates Mail.XML messages
- USPS processes the Mail.dat jobs or Mail.XML messages, generates postage, and reports
- Postage statement finalization exposes data to SASP
- USPS interprets eDoc information, and performs Full-service verification
- USPS determines Data Recipients
- USPS sends mailer feedback to the *PostalOne!* system
- USPS Checks the availability of data to the Mailer
- USPS pushes the notification message to the Mailer's web service end point

**Business Rules**

With each ContainerVisibilityNotification message, if the customer has registered with the *PostalOne!* system to receive the message, the *PostalOne!* system will provide a:

- Date of notification

**AND**

- Provide the job information, either the Mail.dat Job ID and User License Code, OR the Customer Group ID and MailingGroupID for Mail.XML to the customer, so the customer can use the Job information in his/her Query request.

### 4.10.1 ContainerVisibilityNotification Field Description

| ContainerVisibilityNotification | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Values** | **Business Rules** | **Comments** |
| ContainerVisibilityNotification BEGINS | | | | |
| Sequence Block BEGINS | | | Optional | |
| SubmittingParty | participantIDType complex type | - | Optional | Refer to this complex type in Section 5 |
| SubmittingSoftware | submittingSoftwareType complex type | - | Optional | Refer to this complex type in Section 5 |


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| ContainerVisibilityNotification | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Values** | **Business Rules** | **Comments** |
| PushMessageID | String 25 | - | Optional | - |
| Choice Block BEGINS | | | | |
| Sequence Block BEGINS | | | | |
| UserLicenseCode | userLicenseCodeType simple type | | Required when Mail.dat is used | Refer to this simple type in Section 6 |
| MaildatJobID | jobIDType simple type | - | Required when Mail.dat is used | Refer to this simple type in Section 6 |
| CustomerGroupID | String, 25 character | - | Optional | - |
| MailingGroupID | Non Negative Integer | - | Required when Mail.XML 12.0A is used | - |
| Sequence Block ENDS | | | | |
| Choice Block ENDS | | | | |
| FSnonFSAvailabilityDate | Date | yyyy-mm-dd | Required | - |
| Sequence Block BEGINS | | | Unbounded | |
| AvailableRecordCount | nonNegativeInteger | | Required | |
| CountType | mailxml_dd:countTypeType | | Required | |
| Sequence Block ENDS | | | | |
| NotificationDate | Date | yyyy-mm-dd | Required | - |
| Sequence Block ENDS | | | | |
| ContainerVisibilityNotification ENDS | | | | |

## 4.11 ContainerVisibilityQueryRequest

This message is sent by customer to pull container visibility data.

**Prerequisites**

- Customer uses Mail.XML 12.0A spec
- USPS validates the request messages
- USPS retrieves the data based on the search criteria provided in the request
- USPS returns response to the Customer

**Business Rules**

With each ContainerVisibilityQueryRequest message, the customer needs to provide information for all required blocks.

- SubmittingParty – The *PostalOne!* system for all data distribution for full-service messages, i.e., non-FAST, non-eDoc messages, will only accept a MID or a CRID as a valid id.
- SubmittingSoftware – The *PostalOne!* system for messages that it receives for the Mail.XML will always require:
  - A valid software name in the SoftwareName element
  - A valid software vendor company name in the vendor element
  - The most current version number of the software in the Version element
  - A valid Approval Date and a valid Approval Key in the ApprovalDate and ApprovalKey elements. The approval date is the date when the USPS approved the software usage in the USPS production environment


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and a valid Approval Key is what the USPS provided to the Software Vendor or Mailer (who may have developed their own software) as authorization to use in all messages.

- The job information can also be provided optionally, either the Mail.dat Job ID and User License Code, OR the Customer Group ID and MailingGroupID for Mail.XML by the customer.
- The FAST appointment ID or the CSA Dispatch ID, created by the FAST system, can be provided optionally in the ConsigneeApptID or CSADispatchNumber elements respectively.
- The customer can also optionally provide the 21-digit Pallet IMcb barcodes in the UniqueContainerBarcode element tied to the Mail.XML job information or Mail.dat Job information and can optionally provide the Locale Key of the Induction facility in the USPSInductionFacilityLocaleKey element.
- The customer can also optionally provide the Mail.XML Container ID in the CustomerContainerID element tied to the Mail.XML job information or can optionally provide the Mail.dat ContainerID in the ContainerID element.

### 4.11.1 ContainerVisibilityQueryRequest Field Description

| **ContainerVisibilityQueryRequest** | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Values** | **Business Rules** | **Comments** |
| ContainerVisibilityQueryRequest BEGINS | | | | |
| SubmittingParty | participantIDType complex type | - | Optional | Refer to this complex type in Section 5 |
| SubmittingSoftware | submittingSoftwareType complex type | - | Optional | Refer to this complex type in Section 5 |
| SubmitterTrackingID | mailxml_base:s20 | | Required | Refer to this simple type in Section 6 |
| Choice Block BEGINS | | | Optional | |
| UserLicenseCode | userLicenseCodeType simple type | | Required when Mail.dat is used | Refer to this simple type in Section 6 |
| MaildatJobID | jobIDType simple type | - | Required when Mail.dat is used | Refer to this simple type in Section 6 |
| CustomerGroupID | String, 25 character | - | Optional | - |
| MailingGroupID | Non Negative Integer | - | Required when Mail.XML 12.0A is used | - |
| DateRange Block BEGINS | | | | |
| Sequence Block BEGINS | | | | |
| LowerDateRange | xs:date | | Required | |
| UpperDateRange | xs:date | | Required | |
| Sequence Block ENDS | | | | |
| DateRange Block ENDS | | | | |
| Choice Block ENDS | | | | |
| Choice Block BEGINS | | | Optional | |
| ConsigneeApptID | Numeric String, 12 | - | Optional between this field and CSA Dispatch Number | - |
| CSAID | | - | Optional between this field and Consignee Appt ID | |
| | | | | |
| Choice Block ENDS | | | | |
| IMcb | IMcbType simple type | - | Optional0 to many | Refer to this simple type in Section 6 |


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| ContainerVisibilityQueryRequest | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Values** | **Business Rules** | **Comments** |
| USPSInductionFacilitylocaleKey | localeKeyType simple type | - | Optional | Refer to this simple type in Section 6 |
| ContainerVisibilityQueryRequest ENDS | | | | |

## 4.12 ContainerVisibilityQueryResponse

The ContainerVisibilityQueryResponse has two major choice blocks. One is QueryResults and the other is QueryErrors.

**Prerequisites**

- Customer uses Mail.XML version 12.0A
- USPS validates the request messages
- USPS retrieves the data based on the search criteria provided in the request
- USPS returns response to the Customer

**Business Rules**

With each ContainerVisibilityQueryResponse message the *PostalOne!* system will provide the:

- Mandatory LargeTransactionDividerGroupType. This type is created to allow breaking up of any large data into multiple transactions, with Feet Ahead concept, where the sender of the large data is providing information about how many total transactions and records to expect, and what is the current transaction number among the total expected transactions etc. as part of this one business transaction.
- MessageGroupID – It is a Sequence Number and will remain the same until all the transactions are completed, e.g., MessageGroupID is 10 and until the last transaction is received on this business transaction, the MessageGroupID will remain 10 for all transactions, so the receiver knows that all the transactions with MessageGroupID 10 are one business transaction.
- TotalMessageCount - This element tells the receiver that for MessageGroupID of 10 expect a total of X transactions, where X is a positive integer.
- MessageSerialNumber – This is a serial number that indicates the ordinal number of the transaction within the MessageGroupID, so the receiver can tell which transaction (first, second, third, etc.) is being referenced within the MessageGroupID with respect to the TotalMessageCount. The series always begins at 1 for each set of transactions within a given MessageGroupID.
- TransmittedRecordCount – is count of records in the current message transaction.
- TotalRecordsAcrossMessages – This is the total expected record count when the receiver of the MessageGroupID has received all messages.
- LastMessage – is an optional Yes or No indicator confirming for the receiver that this transaction is the last transaction of the MessageGroupID e.g., MessageGroupID 10.
- The ContainerVisibilityQueryResponse has two major choice blocks; one is QueryResults and the other is QueryErrors.
- In QueryResults block, the job information will be returned by the USPS *PostalOne!* system, and the Mail.dat Job information will be returned or Mail.XML job information will be returned. The Mail.dat Job ID and User License Code elements represent Mail.dat information and the Customer Group ID and MailingGroupID represent the Mail.XML.
- The customer will receive zero or more ContainerVisibilityEntry blocks with container unload and scan information. The following Scan Types will be provided:
    - Electronic Shipping info received - USPS received electronic Container or Tray information
    - Entered at USPS - The Container was Entered at USPS <Facility Name>
    - Enroute Arrive - The Container or Tray arrived at <Facility Name>


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- Enroute - The Tray was processed at <Facility Name Enroute Departure - The Tray departed from <Facility Name>
- Out for Delivery - The Tray was sent out for delivery
- *USPS name of Scan Facility

- The customer may also optionally receive Return Codes and Descriptions as part of the Query Results.
- In QueryError Block the QueryError Block provides zero or more return codes and descriptions to communicate any issues with the response of the query.

### 4.12.1 ContainerVisibilityQueryResponse Field Description

| ContainerVisibilityQueryResponse | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Values** | **Business Rules** | **Comments** |
| ContainerVisibilityQueryResponse BEGINS | | | | |
| TrackingID | String 20 | - | Required | - |
| SubmitterTrackingID | mailxml_base:s20 | | Required | Refer to this simple type in Section 6 |
| Choice Block BEGINS | | | Either QueryResult or QueryError will be returned | |
| QueryResult block BEGINS | | | 1 to many allowed | |
| LargeTransactionDividerResult | LargeTransactionDividerResult attribute | - | Optional | Refer to this attribute block in Section 5 |
| ContainerVisibilityEntry | ContainerVisibilityEntry complex type | - | Optional0 to many allowed | Refer to this complex type in Section 5 |
| ReturnInfo | basicReturnInfo complex type | - | Optional | Refer to this complex type in Section 5 |
| Query Result Block ENDS | | | | |
| Query Error Block BEGINS | | | | |
| ReturnInfo | basicReturnInfo complex type | - | Required | Refer to this complex type in Section 5 |
| Query Error Block ENDS | | | | |
| LargeTransactionDividerGroupOptionalType Attribute Group | Mailxml_defs:LargeTransactionDividerGroupOptionalType | - | Required | Refer to this attribute block in Section 5 |
| ContainerVisibilityQueryResponse ENDS | | | | |

## 4.13 DataQualityVerificationReportNotification

This is notification message sent by USPS to customer.

**Prerequisites**

Mailer has subscribed to receive DataQualityVerificationReportNotification messages

**eDoc Data Quality Data Recipient Determination Process**

- Mailer submits eDoc for a Job,
- Postage Statement is Finalized
- USPS performs By/For Verification
- USPS validate whether Mail Owner MID provided in CPT/MPA/IMR record in eDoc.
- USPS identifies Mail Owner by MID based on Order of Preference
- USPS identifies Mail Preparer


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**eDoc Data Quality Logging and Feedback Process**

- USPS performs verifications on eDoc submitted
- USPS associates error records with eDoc containers, handling units, piece or piece range records
- USPS pushes the DataQualityVerificationReportNotification message to the Mailer's web service end point

**Business Rules:**

If the customer has registered with the *PostalOne!* system to receive the message, the *PostalOne!* system will provide a date of notification and will provide the job information, either the Mail.dat Job ID and User License Code, OR the Customer Group ID and MailingGroupID for Mail.XML/Postal Wizard to the customer, and report type.

### 4.13.1 DataQualityVerificationReportNotification Field Description

| DataQualityVerificationReportNotification | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Value** | **Business Rules** | **Comments** |
| DataQualityVerificationReportNotification BEGINS | | | | |
| SubmittingParty | participantIDType complex type | - | Optional | Refer to this complex type in Section 5 |
| SubmittingSoftware | submittingSoftwareType complex type | - | Optional | Refer to this complex type in Section 5 |
| PushMessageID | String 25 | - | Optional | - |
| Choice Block BEGINS | | | Required | |
| UserLicenseCode | userLicenseCodeType simple type | | Required when Mail.dat is used | Refer to this simple type in Section 6 |
| MaildatJobID | jobIDType simple type | - | Required when Mail.dat is used | Refer to this simple type in Section 6 |
| CustomerGroupID | String, 25 character | - | Optional | - |
| MailingGroupID | Non Negative Integer | - | Required when Mail.XML 12.0A is used | - |
| Choice Block ENDS | | | | |
| eDocSenderCRID | CRIDType simple type | | Optional | Refer to this simple type in Section 6 |
| VerificationReport Type | verificationReportType simple type | - | Required1 to many allowed | Refer to this simple type in Section 6 |
| FSNonFSAvailabilityDate | Date | yyyy-mm-dd | Required | - |
| NotificationDate | Date | yyyy-mm-dd | Required | |
| DataQualityVerificationReportNotification ENDS | | | | |

## 4.14 DataQualityVerificationReportDelivery

This message is pushed by USPS and contains the data quality verification report.

**Prerequisites**

- Mailer has subscribed to receive *DataQualityVerificationReportDelivery* messages


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**eDoc Data Quality Data Recipient Determination Process**

- Mailer submits eDoc for a Job,
- Postage Statement is Finalized
- USPS performs By/For Verification
- USPS validate whether Mail Owner MID provided in CPT/MPA/IMR record in eDoc.
- USPS identifies Mail Owner by MID based on Order of Preference
- USPS identifies Mail Preparer

**eDoc Data Quality Logging and Feedback Process**

- USPS performs verifications on eDoc submitted
- USPS associates error records with eDoc containers, handling units, piece or piece range records
- USPS pushes the DataQualityVerificationReportDelivery message to the Mailer's web service end point

**Business Rules:**

If the customer has registered with the *PostalOne!* system to receive the message, the *PostalOne!* system will provide a date of notification and will provide the job information, either the Mail.dat Job ID and User License Code, OR the Customer Group ID and MailingGroupID for Mail.XML/Postal Wizard to the customer, report type, and details about the error.

### 4.14.1 DataQualityVerificationReportDelivery Field Description

| **DataQualityVerificationReportDelivery** | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Value** | **Business Rules** | **Comments** |
| DataQualityVerificationReportDelivery BEGINS | | | | |
| LargeTransactionDividerGroupOptionalType | LargeTransactionDividerGroupOptionalType Attribute | - | Required | Refer to this attribute block in Section 5 |
| SubmittingParty | participantIDType complex type | | Optional | Refer to this complex type in Section 5 |
| SubmittingSoftware | submittingSoftwareType complex type | | Optional | Refer to this complex type in Section 5 |
| DataRecipient | dataRecipient complex type | - | Optional | Refer to this complex type in Section 5 |
| Choice Block BEGINS | | | | |
| UserLicenseCode | userLicenseCodeType simple type | | Required when Mail.dat is used | Refer to this simple type in Section 6 |
| MaildatJobID | jobIDType simple type | - | Required when Mail.dat is used | Refer to this simple type in Section 6 |
| CustomerGroupID | String, 25 character | - | Optional | - |
| MailingGroupID | Non Negative Integer | - | Required when | - |


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| DataQualityVerificationReportDelivery | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Value** | **Business Rules** | **Comments** |
| | | | Mail.XML 12.0A is used | |
| Choice Block ENDS | | | | |
| eDocSenderCRID | CRIDType simple type | | Required | Refer to this simple type in Section 6 |
| PushMessageID | String 25 | - | Optional | - |
| TotalJobContainerCount | nonnegative Integer | | Optional | |
| TotalJobHandlingUnitCount | nonnegative Integer | | Optional | |
| TotalJobPieceCount | nonnegative Integer | | Optional | |
| TotalJobContainerHUErrorCount | nonnegative Integer | | Optional | |
| TotalJobPieceErrorCount | nonnegative Integer | | Optional | |
| TotalJobContainerHUWarningCount | nonNegativeInteger | | | |
| TotalJobPieceWarningCount | nonNegativeInteger | | | |
| Sequence BEGINS | | | 0 to many | |
| PreparerCRID | CRIDType simple type | | Required | Refer to this simple type in Section 6 |
| TotalPreparerContainerCount | nonnegative Integer | | Required | |
| TotalPreparerHandling UnitCount | xs:nonNegativeInteger | | Required | |
| TotalPreparerPieceCount | nonnegative Integer | | Required | |
| TotalPreparerContainerHUErrorCount | nonnegative Integer | | Required | |
| TotalPreparerContainerHUWarningCount | nonNegativeInteger | | | |
| TotalPreparerPieceWarningCount | nonNegativeInteger | | | |
| TotalPreparerPieceErrorCount | nonnegative Integer | | Required | |
| Sequence ENDS | | | | |
| Sequence BEGINS | | | Optional 0 to many allowed | |
| OwnerCRID | CRIDType simple type | | Required | Refer to this simple type in Section 6 |
| TotalOwnerContainerCount | nonnegative Integer | | Required | |
| TotalOwnerHandlingUnitCount | nonnegative Integer | | Required | |
| TotalOwnerPieceCount | nonnegative Integer | | Required | |


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| DataQualityVerificationReportDelivery | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Value** | **Business Rules** | **Comments** |
| TotalOwnerContainerHUErrorCount | nonnegative Integer | | Required | |
| TotalOwnerPieceErrorCount | nonnegative Integer | | Required | |
| TotalOwnerContainerHUWarningCount | nonnegative Integer | | | |
| TotalOwnerPieceWarningCount | nonnegative Integer | | | |
| Sequence ENDS | | | - | |
| Sequence BEGINS | | | Required1 to many allowed | |
| VerificationReportType | verificationReportType simple type | - | Required | Refer to this simple type in Section 6 |
| DataQualityContainerInfo | fsdqrContainerInfoType complex type | | Required1 to many allowed | Refer to this complex type in Section 5 |
| Sequence ENDS | | | | |
| DataQualityVerificationReportDelivery ENDS | | | | |

## 4.15 DataQualityVerificationReportQueryRequest

Customers send this message to USPS for the pull data quality verification error report.

**Prerequisites**

- Mailer submits Mail.dat jobs, Mail XML or Postal Wizard eDoc to the *PostalOne!* system
- USPS validates Mail.XML messages
- USPS processes the Mail.dat jobs, Mail.XML messages or Postal Wizard
- USPS generates postage and reports
- Postage statement has been finalized by USPS
- USPS interprets eDoc information, and performs Full-service verification
- USPS checks the availability of eDoc data quality information to the Mailer
- USPS responds to the DataQualityVerificationReportQueryRequest message to the Mailer's web service endpoint.

**Business Rules**

The customer must provide job information, submitting party, submitting software, facility id, and the report type to retrieve the data quality verification report.

### 4.15.1 DataQualityVerificationReportQueryRequest Field Description

| DataQualityVerificationReportQueryRequest | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Value** | **Business Rules** | **Comments** |
| DataQualityVerificationReportQueryRequest BEGINS | | | | |
| SubmittingParty | participantIDType complex type | - | Optional | Refer to this complex type in Section 5 |


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| DataQualityVerificationReportQueryRequest | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Value** | **Business Rules** | **Comments** |
| SubmittingSoftware | submittingSoftwareType complex type | - | Optional | Refer to this complex type in Section 5 |
| Choice Block BEGINS | | | Required | |
| UserLicenseCode | userLicenseCodeType simple type | | Required when Mail.dat is used | Refer to this simple type in Section 6 |
| MaildatJobID | jobIDType simple type | - | Required when Mail.dat is used | Refer to this simple type in Section 6 |
| CustomerGroupID | String, 25 character | - | Optional | - |
| MailingGroupID | Non Negative Integer | - | Required when Mail.XML 12.0A is used | - |
| Choice Block ENDS | | | | |
| eDocSenderCRID | CRIDType simple type | | Optional | Refer to this simple type in Section 6 |
| VerificationReportType | mailxml_dd:verificationReportType | - | Required1 to many | Refer to this simple type in Section 6 |
| VerificationErrorType | mailxml_dd:verificationErrorType | - | | |
| VerificationWarningType | mailxml_dd:verificationWarningType | - | | |
| DataQualityVerificationReportQueryRequest ENDS | | | | |

## 4.16 DataQualityVerificationReportQueryResponse

This message is sent by USPS in response to query request.

**Prerequisites**

- Mailer sends DataQualityVerificationReportQueryRequest message to USPS
- USPS validates Mail.XML message and processes request

**Error/Return Code**

Refer Section 2 for the list of Error/Return code tied to this message and all shared Error/Return codes

**Business Rules**

Only if the customer has registered with the *PostalOne!* system to receive the message, then the *PostalOne!* system will be able to provide a date of notification and will provide the job information, either the Mail.dat Job ID and User License Code, OR the Customer Group ID and MailingGroupID for Mail.XML/Postal Wizard to the customer, report type, and details about the error.

### 4.16.1 DataQualityVerificationReportQueryResponse Field Description

| DataQualityVerificationReportQueryResponse | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Value** | **Business Rules** | **Comments** |
| DataQualityVerificationReportQueryResponse BEGINS | | | | |
| LargeTransactionDividerGroupOptionalType | LargeTransactionDividerGroupOptionalType Attribute block | - | Required | Refer to this attribute block in Section 5 |


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| DataQualityVerificationReportQueryResponse | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Value** | **Business Rules** | **Comments** |
| TrackingID | String 20 | - | Optional; Allows the user to retrieve the data without requerying | - |
| Choice Block BEGINS | | | Either QueryResult or QueryError block is returned | |
| QueryResult Block BEGINS | | | Required | |
| SubmittingParty | participantIDType complex type | | Required | Refer to this complex type in Section 5 |
| SubmittingSoftware | submittingSoftwareType complex type | | Required | Refer to this complex type in Section 5 |
| Choice Block BEGINS | | | Required Choice Block | |
| UserLicenseCode | userLicenseCodeType simple type | | Required when Mail.dat is used | Refer to this simple type in Section 6 |
| MaildatJobID | jobIDType simple type | - | Required when Mail.dat is used | Refer to this simple type in Section 6 |
| CustomerGroupID | String, 25 character | - | Optional | - |
| MailingGroupID | Non Negative Integer | - | Required when Mail.XML12.0A is used | - |
| Choice Block ENDS | | | | |
| LargeTransactionDividerResult | LargeTransactionDividerResult attribute | - | Optional | Refer to this attribute block in Section 5 |
| eDocSenderCRID | CRIDType simple type | | Required | Refer to this simple type in Section 6 |
| TotalJobContainerCount | nonnegative Integer | | Optional | |
| TotalJobHandlingUnitCount | nonnegative Integer | | Optional | |
| TotalJobPieceCount | nonnegative Integer | | Optional | |
| TotalJobContainerHUErrorCount | nonnegative Integer | | Optional | |
| TotalJobPieceErrorCount | nonnegative Integer | | Optional | |
| Sequence BEGINS | | | Optional0 to many allowed | |
| PreparerCRID | CRIDType simple type | | Required | Refer to this simple type in Section 6 |


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| DataQualityVerificationReportQueryResponse | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Value** | **Business Rules** | **Comments** |
| TotalPreparerContainerCount | nonnegative Integer | | Required | |
| TotalPreparerHandling UnitCount | xs:nonNegativeInteger | | Required | |
| TotalPreparerPiece Count | nonnegative Integer | | Required | |
| TotalPreparerContainerHUErrorCount | nonnegative Integer | | Required | |
| TotalPreparerPieceErrorCount | nonnegative Integer | | Required | |
| Sequence ENDS | | | | |
| Sequence BEGINS | | | Optional0 to many allowed | |
| OwnerCRID | CRIDType simple type | | Required | Refer to this simple type in Section 6 |
| TotalOwnerContainer Count | nonnegative Integer | | Required | |
| TotalOwnerHandlingUnitCount | nonnegative Integer | | Required | |
| TotalOwnerPieceCount | nonnegative Integer | | Required | |
| TotalOwnerContainer HUErrorCount | nonnegative Integer | | Required | |
| TotalOwnerPieceError Count | nonnegative Integer | | Required | |
| Sequence ENDS | | | Required | |
| Sequence BEGINS | | | Required1 to many | |
| VerificationReportType | verificationReportType | - | Required | Refer to this simple type in Section 6 |
| FSDQRContainerInfo | fsdqrContainerInfoType complex type | | Required | Refer to this complex type in Section 5 |
| Sequence ENDS | | | | |
| QueryResult Block ENDS | | | | |


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| DataQualityVerificationReportQueryResponse | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Value** | **Business Rules** | **Comments** |
| QueryError Block BEGINS | | | | |
| ReturnInfo | basicReturnInfo complex type | - | Required | Refer to this complex type in Section 5 |
| QueryError block ENDS | | | | |
| Choice Block ENDS | | | | |
| DataQualityVerificationReportQueryResponse ENDS | | | | |

## 4.17 DeliveryResponse

The purpose of this message is to receive an acknowledgment from the customer when they receive a delivery message pushed by USPS.

**Prerequisites**

- USPS pushes data to the customer's web service end point using delivery messages
- Customer send an acknowledgment using the DeliveryResponse Message

**Business Rules:**

- USPS expects a "DeliveryResponse" message from all customers who have been subscribed to receive "Delivery" messages from the USPS. This response confirms that delivery message has been successfully received by the customer.
- Every Delivery Message will have a unique message identifier (PushMessageID) that will be sent to customers. Customers are encouraged to return the same PushMessageID in the DeliveryResponse message so that the *PostalOne!* system can reconcile the message delivery information.

### 4.17.1 DeliveryResponse Field Description

| DeliveryResponse | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Values** | **Business Rules** | **Comments** |
| deliveryResponse BEGINS | | | | |
| Choice Block BEGINS | | | Optional.UserLicenseCode/MaildatJobID OR CustomerGroupID/MalingGroupID be provided | |
| UserLicenseCode | userLicenseCodeType simple type | | Required when Mail.dat is used | Refer to this simple type in Section 6 |
| MaildatJobID | jobIDType simple type | - | Required when Mail.dat is used | Refer to this simple type in Section 6 |
| CustomerGroupID | String, 25 character | - | Optional but required when Mail.XML version is used | - |
| MailingGroupID | Non Negative Integer | - | Required when Mail.XML 12.0A is used | - |
| Choice Block ENDS | | | | |
| Push Message ID | String, Length 25 | - | Optional | |
| Delivery Type | String | - | Required | |
| ReturnInfo | basicReturnInfoType complex type | - | Required | Refer to this complex type in Section 5 |
| deliveryResponse | | | | |


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| DeliveryResponse | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Values** | **Business Rules** | **Comments** |
| ENDS | | | | |

## 4.18 MPSVisQueryRequest

Customers send this message to USPS for the pull Mail Piece Scan data report.

### 4.18.1 MPSVisQueryRequest Field Description

| MPSVisQueryRequest | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Value** | **Business Rules** | **Comments** |
| MPSVisQueryRequest BEGINS | | | | |
| Sequence Block BEGINS | | | | |
| SubmittingParty | participantIDType complex type | - | Optional | Refer to this complex type in Section 5 |
| SubmittingSoftware | submittingSoftwareType complex type | - | Optional | Refer to this complex type in Section 5 |
| Choice Block BEGINS | | | | |
| Sequence Block BEGINS | | | | |
| UserLicenseCode | | | | Refer to this simple type in Section 6 |
| MaildatJobID | | | | Refer to this simple type in Section 6 |
| Sequence Block ENDS | | | | |
| Sequence Block BEGINS | | | | |
| CustomerGroupID | mailxml_base:s25 | | Optional | Refer to this simple type in Section 6 |
| MailingGroupID | nonNegativeInteger | | | Refer to this simple type in Section 6 |
| Sequence Block ENDS | | | | |
| Choice Block ENDS | | | | |
| Choice Block BEGINS | | | Optional | |
| LowerDateRange | xs:date | | Required | Refer to this simple type in Section 6 |
| UpperDateRange | xs:date | | Required | Refer to this simple type in Section 6 |
| Choice Block ENDS | | | | |
| QueryByScanState | mailxml_dd:MPSStateType | | | Refer to this simple type in Section 6 |
| Sequence Block ENDS | | | | |
| MPSVisQueryRequest ENDS | | | | |

## 4.19 MPSVisQueryResponse

This message sends the actual Mail Piece Scan  data back to the requestor

### 4.19.1 MPSVisQueryResponse Field Description

| MPSVisQueryResponse | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Value** | **Business Rules** | **Comments** |


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| MPSVisQueryResponse | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Value** | **Business Rules** | **Comments** |
| MPSVisQueryResponse BEGINS | | | | |
| Sequence Block BEGINS | | | | |
| TrackingID | mailxml_base:s20 | | Optional | Refer to this simple type in Section 6 |
| Choice Block BEGINS | | | | |
| QueryResults Block BEGINS | | | | |
| Sequence Block BEGINS | | | Unbounded | |
| LargeTransactionDividerResult | mailxml_defs:LargeTransactionDividerResult | | Optional | Refer to this complex type in Section 5 |
| Sequence Block BEGINS | | | Unbounded | |
| IMbMailpieceScanData | mailxml_dd:IMbMailpieceScanData | | Optional, Unbounded | Refer to this complex type in Section 5 |
| ReturnInfo | mailxml_defs:basicReturnInfoType | | Optional | Refer to this complex type in Section 5 |
| Sequence Block ENDS | | | | |
| Sequence Block ENDS | | | | |
| QueryError | mailxml_defs:QueryError | | | Refer to this complex type in Section 5 |
| Choice Block ENDS | | | | |
| Sequence Block ENDS | | | | |
| LargeTransactionDividerGroup | mailxml_defs:LargeTransactionDividerGroupType | | | Refer to this attribute block in Section 5 |
| QueryResults Block ENDS | | | | |
| MPSVisQueryResponse ENDS | | | | |

## 4.20 MPSVisDelivery

This message is sent by USPS with detailed MPSVis data for Push Delivery subscription users.

**Prerequisites**

Mailer has subscribed to receive MPSVisDelivery messages.

**Error/Return Code**

Refer to Section 2 for the list of Error/Return codes tied to this message and all shared error/return codes

**Business Rules**

If the customer has registered with the *PostalOne*! system to receive the message, the *PostalOne!* system will provide a date of notification and will provide the job information, either the Mail.dat Job ID and User License Code, OR the Customer Group ID and MailingGroupID for Mail.XML/Postal Wizard to the customer, report type, and details about the error

### 4.20.1 MPSVisDelivery Field Description

| MPSVisDelivery | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Value** | **Business Rules** | **Comments** |


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| MPSVisDelivery | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Value** | **Business Rules** | **Comments** |
| MPSVisDelivery BEGINS | | | | |
| Sequence Block BEGINS | | | Optional | |
| SubmittingParty | mailxml_defs:participantIDType | | Optional | |
| SubmittingSoftware | submittingSoftwareType | | Optional | Refer to this simple type in Section 6 |
| DataRecipient | mailxml_defs:DataRecipient | | | Refer to this complex type in Section 5 |
| PushMessageID | mailxml_base:s25 | | | Refer to this simple type in Section 6 |
| Sequence Block BEGINS | | | Unbounded | |
| IMbMailpieceScanData | mailxml_dd:IMbMailpieceScanData | | Optional Unbounded | Refer to this complex type in Section 5 |
| Sequence Block ENDS | | | | |
| Sequence Block ENDS | | | | |
| MPSVisDelivery ENDS | | | | |

## 4.21 MPSVisNotification

### 4.21.1 MPSVisNotification Field Description


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| MPSVisNotification | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Value** | **Business Rules** | **Comments** |
| MPSVisNotification Block BEGINS | | | | |
| Sequence Block BEGINS | | | | |
| SubmittingParty | mailxml_defs:participantIDType | | Optional | Refer to this simple type in Section 6 |
| SubmittingSoftware | mailxml_defs:submittingSoftwareType | | Optional | Refer to this complex type in Section 5 |
| DataRecipient | mailxml_defs:DataRecipient | | Optional | Refer to this complex type in Section 5 |
| PushMessageID | mailxml_base:s25 | | Optional | Refer to this simple type in Section 6 |
| Choice Block BEGINS | | | Optional | |
| Sequence Block BEGINS | | | | |
| UserLicenseCode | mailxml_base:userLicenseCodeType | | Required | Refer to this simple type in Section 6 |
| MaildatJobID | mailxml_base:jobIDType | | Required | Refer to this simple type in Section 6 |
| Sequence Block ENDS | | | | |
| Choice Block ENDS | | | | |
| Sequence Block BEGINS | | | | |
| CustomerGroupID | mailxml_base:s25 | | Optional | Refer to this simple type in Section 6 |
| MailingGroupID | nonNegativeInteger | | Required | Refer to this simple type in Section 6 |
| Sequence Block ENDS | | | | |
| Choice Block BEGINS | | | | |
| MPSAvailabilityDate | xs:date | | | Refer to this simple type in Section 6 |
| AvailableRecordCount | nonNegativeInteger | | | Refer to this simple type in Section 6 |
| NotificationDate | xs:date | | | Refer to this simple type in Section 6 |
| Choice Block ENDS | | | | |
| Sequence Block ENDS | | | | |
| MPSVisNotification Block ENDS | | | | |

## 4.22 NixieDetailNotification

This is the Notification message to customer for Nixie information.

**Prerequisites**

Mailer has subscribed to receive NixieDetailNotification messages.

**ACS Data Recipient Determination Process**

- Mailer submits eDoc for a Job, Postage Statement is Finalized
- USPS performs By/For Verification


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- USPS validate whether Mail Owner MID provided in CPT/MPA/IMR record in eDoc.
- USPS identifies Mail Owner by MID based on Order of Preference
- USPS looks up Data Distribution Profile by Mailer Owner's MID
- USPS verifies whether Data Distribution Profile Exists
- USPS determines Data Recipient CRID based on Profile
- USPS attaches the Data Recipient CRID to the Piece/Piece Range Record

**ACS Association and Feedback Process**

- USPS receives ACS and Nixie records
- USPS associates ACS and Nixie records with Piece/Piece Range records
- USPS provides ACS Feedback to Data Recipient CRID attached to the Piece/Piece Range record
- USPS pushes the NixieDetailNotification message to the Mailer's web service end point

**Business Rules**

With each NixieDetailNotification message, if the customer has registered with the *PostalOne!* system to receive the message, the *PostalOne!* system will provide the:

- SubmittingParty – The *PostalOne!* system for all Notification and Delivery messages will always put a value of 'USPS' in the MaildatUserLicense field.
- SubmittingSoftware – The *PostalOne!* system for all Notification and Delivery messages will always put:
- The value of 'PostalOne' in the SoftwareName element
- The value of 'USPS' in the vendor element
- The most current version number available, such as 19.0 or 20.0 in the Version element
- The *PostalOne!* system will not fill any values in the ApprovalDate and ApprovalKey elements
- The CRID element is for industry usage and is optional. For the Delivery messages, the *PostalOne!* system will not populate this element.
- The *PostalOne!* system will provide the job information, either the Mail.dat Job ID and User License Code, OR the Customer Group ID and MailingGroupID for Mail.XML/Postal Wizard to the customer.
- The *PostalOne!* system will provide the NotificationDate, which is the date when the message is transmitted.

### 4.22.1 NixieDetailNotification Field Description

| **NixieDetailNotification** | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Values** | **Business Rules** | **Comments** |
| NixieDetailNotification BEGINS | | | | |
| SubmittingParty | participantIDType complex type | - | Optional | Refer to this complex type in Section 5 |
| SubmittingSoftware | submittingSoftwareType complex type | - | Optional | Refer to this complex type in Section 5 |
| CRID | CRIDType simple type | - | Optional | Refer to this complex type in Section 5 |
| PushMessageID | String 25 | - | Optional | - |
| Choice Block BEGINS | | | Optional. Either UserLicenseCode/MaildatJobID or CustomerGroupID/MailingGroupID be provided | |
| UserLicenseCode | userLicenseCodeType simple type | | Required when Mail.dat is used | Refer to this simple type in Section 6 |
| MaildatJobID | jobIDType simple | - | Required when | Refer to this simple |


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| NixieDetailNotification | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Values** | **Business Rules** | **Comments** |
| | type | | Mail.dat is used | type in Section 6 |
| CustomerGroupID | String, 25 character | - | Optional | - |
| MailingGroupID | Non Negative Integer | - | Required when Mail.XML 12.0A is used | - |
| Choice Block ENDS | | | | |
| FSNonFSAvailabilityDate | Date | yyyy-mm-dd | Required | - |
| Notification Date | Date | yyyy-mm-dd | Required | - |
| NixieDetailNotification ENDS | | | | |

## 4.23 NixieDetailDelivery

This is a push message to provide Nixie information.

**Prerequisites**

Mailer has subscribed to receive NixieDetailDelivery messages.

**ACS Data Recipient Determination Process**

- Mailer submits eDoc for a Job, Postage Statement is Finalized
- USPS performs By/For Verification
- USPS validate whether Mail Owner MID provided in CPT/MPA/IMR record in eDoc.
- USPS identifies Mail Owner by MID based on Order of Preference
- USPS looks up Data Distribution Profile by Mailer Owner's MID
- USPS verifies whether Data Distribution Profile Exists
- USPS determines Data Recipient CRID based on Profile
- USPS attaches the Data Recipient CRID to the Piece/Piece Range Record

**ACS Association and Feedback Process**

- USPS receives ACS and Nixie records
- USPS associates ACS and Nixie records with Piece/Piece Range records
- USPS provides ACS Feedback to Data Recipient CRID attached to the Piece/Piece Range record
- USPS pushes the NixieDetailDelivery message to the Mailer's web service end point

**Business Rule**

With each NixieDetailDelivery message, if the customer has registered with the *PostalOne!* system to receive the message, the *PostalOne!* system will provide the

- OPTIONAL LargeTransactionDividerGroupOptionalType. This type is created to allow breaking up of any large data into multiple transactions, with Feet Ahead concept, where the sender of the large data is providing information about how many total transactions and records to expect and what is the current transaction number among the total expected transactions etc. as part of this one business transaction.
- MessageGroupID – It is a Sequence Number and will remain the same until all the transactions are completed, e.g., MessageGroupID is 10 and until the last transaction is received on this business transaction, the MessageGroupID will remain 10 for all transactions, so the receiver knows that all the transactions with MessageGroupID 10 are one business transaction.
- TotalMessageCount - This element tells the receiver that for MessageGroupID of 10 expect a total of X transactions, the X is a positive integer.
- MessageSerialNumber – This is a serial number that indicates the ordinal number of the transaction within the MessageGroupID, so the receiver can tell which transaction (first, second, third, etc.) is being referenced within


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the MessageGroupID with respect to the TotalMessageCount. The series always begins at 1 for each set of transactions within a given MessageGroupID.

- TransmittedRecordCount – is count of records in the current message transaction.
- TotalRecordsAcrossMessages – This is the total expected record count when the receiver of the MessageGroupID has received all messages.
- LastMessage – is a Yes or No indicator confirming for the receiver that this transaction is the last transaction of the MessageGroupID e.g., MessageGroupID 10.
- SubmittingParty – The *PostalOne!* system for all Notification and Delivery messages will always put a value of 'USPS' in the MaildatUserLicense field.
- SubmittingSoftware – The *PostalOne!* system for all Notification and Delivery messages will always put
- The value of 'PostalOne' in the SoftwareName element
- The value of 'USPS' in the vendor element
- The most current version number available, such as 19.0 or 20.0 in the Version element
- The *PostalOne!* system will not fill any values in the ApprovalDate and ApprovalKey elements
- The CRID element is for industry usage and is optional. For the Delivery messages, the *PostalOne!* system will not populate this element.
- The *PostalOne!* system will provide the job information, either the Mail.dat Job ID and User License Code, OR the Customer Group ID and MailingGroupID for Mail.XML/Postal Wizard to the customer.
- The *PostalOne!* system will send one or more NixieDetail blocks.
- The ActionCode element will be used to identify the action taken for the returned mail for the following values:
  - 'F' = Forwarded
  - 'W' = Wasted
  - 'R' = Returned
  - 'U' = Unable to determine action
- The ClassNotificationType element will be used to identify the mail class of the mail piece that generated the ACS COA notification for the following values:
  - 'A' = Package Services (Bound Printed Matter)
  - 'B' = First-Class
  - 'C' = Periodicals Initial
  - 'D' = Standard Mail
  - 'F' = Periodicals Follow-up
- Reason Code - Reason mail element will be used to identify the reason for the returned mail for the following values:
  - 'A' = Attempted, not known
  - 'B' = Returned for better address
  - 'D' = Outside delivery limits
  - 'E' = In dispute
  - 'I' = Insufficient Address
  - 'L' = Illegible
  - 'M' = No mail receptacle
  - 'N' = No such number
  - 'P' = Deceased
  - 'Q' = Not deliverable as addressed/unable to forward


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- ‘R’ = Refused
- ‘S’ = No such street
- ‘U’ = Unclaimed
- ‘V’ = Vacant
- ‘X’ = No such office

### 4.23.1 NixieDetailDelivery Field Description

| NixieDetailDelivery | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Values** | **Business Rules** | **Comments** |
| NixieDetailDelivery BEGINS | | | | |
| LargeTransactionDividerGroup OptionalType | LargeTransactionDividerGroup OptionalType Attribute | - | Required | Refer to this attribute block in Section 5 |
| SubmittingParty | participantIDType complex type | - | Optional | Refer to this complex type in Section 5 |
| SubmittingSoftware | submittingSoftwareType complex type | - | Optional | Refer to this complex type in Section 5 |
| DataRecipient | dataRecipient complex type | - | Optional | Refer to this complex type in Section 5 |
| Push Message ID | String, Length 25 | - | Optional | - |
| NixieDetail | NixieDetailType Complex type | - | Required1 to many allowed | Refer to this complex type in Section 5 |
| NixieDetailDelivery ENDS | | | | |

## 4.24 NixieDetailQueryRequest

This is request message to pull Nixie data.

**Prerequisites**

- Customer uses Mail.XML version 12.0A
- USPS validates the request messages
- USPS retrieves the data based on the search criteria provided in the request
- USPS returns response to the Customer

**Business Rules**

With each NixieDetailQueryRequest message, the customer needs to provide information for all required blocks. See below the business rule specific to fields.

- SubmittingParty – The *PostalOne!* system for all data distribution for full-service messages, i.e., non-FAST, non-eDoc messages, will only accept a MID or a CRID as a valid id.
- SubmittingSoftware – The *PostalOne!* system for messages that it receives for the Mail.XML will always require
- A valid software name in the SoftwareName element
- A valid software vendor company name in the vendor element
- The most current version number of the software in the Version element
- A valid Approval Date and a valid Approval Key in the ApprovalDate and ApprovalKey elements. The approval date is the date when the USPS approved the software usage in the USPS production environment and a valid Approval Key is what the USPS provided to the Software Vendor or Mailer (who may have developed their own software) as authorization to use in all messages.
- The RequestorCRID can be used to identify the requestor through the company CRID.


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- The customer can also provide the 6-digit or 9-digit OriginalMailerID.
- The customer shall also provide one or more PieceRequests with piece ranges, class, date range and job information.

### 4.24.1 NixieDetailQueryRequest Field Description

| NixieDetailQueryRequest | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Values** | **Business Rules** | **Comments** |
| NixieDetailQueryRequest BEGINS | | | | |
| SubmittingParty | participantIDType complex type | - | Optional | Refer to this complex type in Section 5 |
| SubmittingSoftware | submittingPartyType complex type | - | Optional | Refer to this complex type in Section 5 |
| SubmitterTrackingID | mailxml_base:s20 | | Required | Refer to this simple type in Section 6 |
| Requester CRID | CRIDType simple type | - | Optional | Refer to this simple type in Section 6 |
| Choice Block BEGINS | | | Optional Block | |
| OriginalMailerID6 | mailerID6Type simple type | - | Required | Refer to this simple type in Section 6 |
| OriginalMailerID9 | mailerID9Type simple type | - | Required | Refer to this simple type in Section 6 |
| Choice Block ENDS | | | | |
| Piece Request Block BEGINS | | | Required1 to many allowed | |
| Mail Class | mailClassType simple type | - | Optional | Refer to this simple type in Section 6 |
| Choice Block BEGINS | | | Optional Either Lower or Upper IMBRange is required | |
| LowerIMBRange | iMBType simple type | - | Required | Refer to this simple type in Section 6 |
| UpperIMBRange | iMBType simple type | - | Required | Refer to this simple type in Section 6 |
| Choice Block ENDS | | | | |
| Choice Block BEGINS | | | Optional; Either UserLicenseCode/MaildatJobID or CustomerGroupID/MailingGroupID will be provided | |
| UserLicenseCode | userLicenseCodeType simple type | | Required when Mail.dat is used | Refer to this simple type in Section 6 |
| MaildatJobID | jobIDType simple type | - | Required when Mail.dat is used | Refer to this simple type in Section 6 |
| CustomerGroupID | String, 25 character | - | Optional | - |
| MailingGroupID | Non Negative Integer | - | Required when Mail.XML 12.0A is used | - |
| Choice Block ENDS | | | | |
| Date Range Block BEGINS | | | Required | |
| LowerDateRange | Date | yyyy-mm-dd | Required | This date is a *PostalOne!* date starting in March 2010 to make sure time delay issues |


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| NixieDetailQueryRequest | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Values** | **Business Rules** | **Comments** |
| | | | | when the data is received by the *PostalOne!* system do not have any impact to the customer querying the data. |
| UpperDateRange | Date | yyyy-mm-dd | Required | -See Lower Date Range comment above. |
| Date Range Block ENDS | | | | |
| Piece Request Block ENDS | | | | |
| NixieDetailQueryRequest ENDS | | | | |

## 4.25 NixieDetailQueryResponse

This message sends the actual Nixie data back to the requestor.

**Prerequisites**

- Customer uses Mail.XML 12.0A spec
- USPS validates the request messages
- USPS retrieves the data based on the search criteria provided in the request
- USPS returns response to the Customer

**Business Rules**

With each NixieDetailQueryResponse message, the *PostalOne!* system will provide the:

- Mandatory LargeTransactionDividerGroupType. This type is created to allow breaking up of any large data into multiple transactions, with Feet Ahead concept, where the sender of the large data is providing information about how many total transactions and records to expect, and what is the current transaction number among the total expected transactions etc. as part of this one business transaction.
- MessageGroupID – It is a Sequence Number and will remain the same until all the transactions are completed, e.g., MessageGroupID is 10 and until the last transaction is received on this business transaction, the MessageGroupID will remain 10 for all transactions, so the receiver knows that all the transactions with MessageGroupID 10 are one business transaction.
- TotalMessageCount - This element tells the receiver that for MessageGroupID of 10 expect a total of X transactions, the X is a positive integer.
- MessageSerialNumber – This is a serial number that indicates the ordinal number of the transaction within the MessageGroupID, so the receiver can tell which transaction (first, second, third, etc.) is being referenced within the MessageGroupID with respect to the TotalMessageCount. The series always begins at 1 for each set of transactions within a given MessageGroupID.
- TransmittedRecordCount – is count of records in the current message transaction.
- TotalRecordsAccrossMessages – This is the total expected record count when the receiver of the MessageGroupID has received all messages LastMessage – is an optional Yes or No indicator confirming for the receiver that this transaction is the last transaction of the MessageGroupID e.g., MessageGroupID 10.

The NixieDetailResponse has two major choice blocks: QueryResults and QueryErrors, which are described below.

- In QueryResults, the customer will receive zero or more NixieDetail blocks with job info, original MID information and Nixie address information.
- The customer may also optionally receive Return Codes and Descriptions as part of the Query Results.


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- In QueryReject, the QueryError Block provides zero or more return codes and descriptions to communicate any issues with the response of the query.

### 4.25.1 NixieDetailQueryResponse Field Description

| NixieDetailQueryResponse | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Values** | **Business Rules** | **Comments** |
| NixieDetailQueryResponse BEGINS | | | | |
| LargeTransactionDividerGroupType | LargeTransactionDividerGroupType Attribute | - | Required | Refer to this attribute block in Section 5 |
| TrackingID | String 20 | - | Optional. Allows the user to retrieve the data without requerying it again | - |
| SubmitterTrackingID | Mailxml_base:s20 | | Required | Refer to this simple type in Section 6 |
| Choice Block BEGINS | | | Required Either QueryResult or QueryError will be returned | |
| Query Result Block BEGINS | | | | |
| LargeTransactionDividerResult | LargeTransactionDividerResult Attribute | - | Optional | Refer to this attribute block in Section 5 |
| NixieDetail | NixieDetailType complex type | - | Optional.0 to many allowed | Refer to this complex type in Section 5 |
| ReturnInfo | basicReturnInfo complex type | - | Optional | Refer to this complex type in Section 5 |
| Query Result Block ENDS | | | | |
| Query Error Block BEGINS | | | | |
| ReturnInfo | basicReturnInfo complex type | - | Required | Refer to this complex type in Section 5 |
| Query Error Block ENDS | | | | |
| NixieDetailQueryResponse ENDS | | | | |

## 4.26 NonComplianceDataWithPostageOwedReportNotification

The purpose of this message is to provide users with notification that their Full-service NonCompliance data, which may affect their postage statement and Full-Service discounts, is ready to be picked up.

### 4.26.1 NonComplianceDataWithPostageOwedReportNotification Field Description

| NonComplianceDataWithPostageOwedReportNotification | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Values** | **Business Rules** | **Comments** |
| NonComplianceDataWithPostageOwedReportNotification BEGINS | | | | |
| SubmittingParty | participantIDType complex type | - | Optional | Refer to this complex type in Section 5 |
| SubmittingSoftware | submittingSoftwareType complex type | - | Optional | Refer to this complex type in Section 5 |
| PushMessageID | String 25 | - | Optional | - |
| Choice Block | | | Required Either | |


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| NonComplianceDataWithPostageOwedReportNotification | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Values** | **Business Rules** | **Comments** |
| BEGINS | | | UserLicenseCode/MaildatJobID or CustomerGroupID/MailingGroupID be provided | |
| UserLicenseCode | userLicenseCodeType simple type | | Required when Mail.dat is used | Refer to this simple type in Section 6 |
| MaildatJobID | jobIDType simple type | - | Required when Mail.dat is used | Refer to this simple type in Section 6 |
| CustomerGroupID | String, 25 character | - | Optional | - |
| MailingGroupID | Non Negative Integer | - | Required when Mail.XML 12.0A is used | - |
| Choice Block ENDS | | | | |
| eDocSenderCRID | CRIDType simple type | - | Optional. This is the eDoc Sender's CRID information to enable the *PostalOne!* system to track the source of the eDoc data. | Refer to this simple type in Section 6 |
| FSNonFSAvailabilityDate | Date | yyyy-mm-dd | Required | |
| Notification Date | Date | yyyy-mm-dd | Required | |
| NonComplianceDataWithPostageOwedReportNotification ENDS | | | | |

## 4.27 NonComplianceDataWithPostageOwedReportDelivery

This is an automated generated message that is pushed from USPS servers to the user's server, if they have subscribed to a PUSH service. This message pushes the actual Noncompliance data to user's servers.

### 4.27.1 NonComplianceDataWithPostageOwedReportDelivery Field Description

| NonComplianceDataWithPostageOwedReportDelivery | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Values** | **Business Rules** | **Comments** |
| NonComplianceDataWithPostageOwedReportDelivery BEGINS | | | | |
| SubmittingParty | participantIDType complex type | - | Optional | Refer to this complex type in Section 5 |
| SubmittingSoftware | submittingSoftwareType complex type | - | Optional | Refer to this complex type in Section 5 |
| DataRecipient | dataRecipient complex type | - | Optional | Refer to this complex type in Section 5 |
| Push Message ID | String 25 | - | Optional | - |
| NonComplianceDataWithPostageOwedReport | NonComplianceDataWithPostageOwedReportType complex type | - | Required1 to many allowed | Refer to this complex type in Section 5 |
| LargeTransactionDividerGroupOptionalType | LargeTransactionDividerGroupOptionalType attribute | - | Required | Refer to this attribute block in Section 5 |
| NonComplianceDataWithPostageOwedReportDelivery ENDS | | | | |


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## 4.28 NonComplianceDataWithPostageOwedQueryRequest

This message allows the user to query the *PostalOne!* system to retrieve the noncompliance data that may affect the postage statement and Full-Service Discounts.

### 4.28.1 NonComplianceDataWithPostageOwedQueryRequest Field Description

| NonComplianceDataWithPostageOwedQueryRequest | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Values** | **Business Rules** | **Comments** |
| NonComplianceDataWithPostageOwedQueryRequest BEGINS | | | | |
| SubmittingParty | participantIDType complex type | - | Optional | Refer to this complex type in Section 5 |
| SubmittingSoftware | submittingSoftwareType complex type | - | Optional | Refer to this complex type in Section 5 |
| Choice Block BEGINS | | | Required Either UserLicenseCode/MaildatJobID or CustomerGroupID/MailingGroupID or CustomerAccount block is required | |
| UserLicenseCode | userLicenseCodeType simple type | | Required when Mail.dat is used | Refer to this simple type in Section 6 |
| MaildatJobID | jobIDType simple type | - | Required when Mail.dat is used | Refer to this simple type in Section 6 |
| CustomerGroupID | String, 25 character | - | Optional | - |
| MailingGroupID | Non Negative Integer | - | Required when Mail.XML 12.0A is used | - |
| Choice Block ENDS | | | | |
| eDocSenderCRID | CRIDType simple type | - | Optional This is the eDoc Sender's CRID information to enable the *PostalOne!* system to track the source of the eDoc data. | Refer to this simple type in Section 6 |
| Start Date | Date | - | Required | - |
| EndDate | Date | - | Required | - |
| NonComplianceDataWithPostageOwedQueryRequest ENDS | | | | |


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## 4.29 NonComplianceDataWithPostageOwedReportQueryResponse

This is a response message to the NonComplianceDataWithPostageOwedQueryRequest message that provides the actual data to the requestor.

### 4.29.1 NonComplianceDataWithPostageOwedReportQueryResponse Field Description

| NonComplianceDataWithPostageOwedReportQueryResponse | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Value** | **Business Rules** | **Comments** |
| NonComplianceDataWithPostageOwedReportQueryResponse BEGINS | | | | |
| LargeTransactionDividerGroupType | LargeTransactionDividerGroup Type Attribute block | - | Required | Refer to this attribute block in Section 5 |
| TrackingID | String 20 | - | Optional; Allows the user to retrieve the data without requerying | - |
| Choice Block BEGINS | | | Either QueryResult or QueryError block is returned | |
| QueryResult Block BEGINS | | | Required | |
| LargeTransactionDividerResult | LargeTransactionDividerResult attribute | - | Optional | Refer to this attribute block in Section 5 |
| NonComplianceDataWithPostageOwedReport | NonComplianceDataWithPostageOwedReportType | | Required; 1 to many allowed | Refer to this complex type in Section 5 |
| QueryResult Block ENDS | | | | |
| QueryError Block BEGINS | | | | |
| ReturnInfo | basicReturnInfo complex type | - | Required | Refer to this complex type in Section 5 |
| QueryError Block ENDS | | | | |
| Choice Block ENDS | | | | |
| NonComplianceDataWithPostageOwedReportQueryResponse ENDS | | | | |

## 4.30 NotificationResponse

The purpose of this message is to receive an acknowledgment from the customer when they receive a notification message sent by USPS.

Prerequisites


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- USPS sends a Notification message to the customer's web service end point regarding the availability of data to be pulled by the customer
- Customer sends an acknowledgment using the NotificationResponse Message

Business Rules

USPS expected a "NotificationResponse" message from all customers who have been subscribed to receive "Notification" messages from the USPS. This response confirms that notification message has been successfully received by the customer.

### 4.30.1 NotificationResponse Field Description

| NotificationResponse | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Values** | **Business Rules** | **Comments** |
| NotificationResponse BEGINS | | | | |
| Choice Block BEGINS | | | Optional.UserLicense Code/MaildatJobID OR CustomerGroupID/Ma ilingGroupID be provided | |
| UserLicenseCode | userLicenseCodeTyp e simple type | | Required when Mail.dat is used | Refer to this simple type in Section 6 |
| MaildatJobID | jobIDType simple type | - | Required when Mail.dat is used | Refer to this simple type in Section 6 |
| CustomerGroupID | String, 25 character | - | Optional | - |
| MailingGroupID | Non Negative Integer | - | Required when Mail.XML 12.0A is used | - |
| Choice Block ENDS | | | | |
| PushMessageID | String 25 | - | Optional | - |
| NotificationDate | Date | yyyy-mm-dd | Required | - |
| ReturnInfo | basicReturnInfo complex type | - | Required | Refer to this complex type in Section 5 |
| NotificationResponse ENDS | | | | |

## 4.31 StartTheClockNotification

The purpose of this message is to provide notification to customers with the StartTheClock information.

**Prerequisites**

Mailer has subscribed to receive StartTheClock Notification messages.

- Mailer submits Mail.dat jobs or Mail XML eDoc messages to the *PostalOne!* System
- USPS validates Mail.XML messages
- USPS processes the Mail.dat jobs or Mail.XML messages, generates postage, and reports
- Postage statement finalization exposes data to SASP
- USPS interprets eDoc information, and performs Full-service verification
- USPS determines Data Recipients and Start-the-Clock
- USPS sends Mailer Feedback to the *PostalOne!* System
- USPS Checks the availability of Start the Clock data to the Mailer
- USPS pushes the notification message to the Mailer's web service end point

**Business Rules**


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If the customer has registered with the *PostalOne!* system to receive the message, the *PostalOne!* system will provide a date of notification and will provide the job information, either the Mail.dat Job ID and User License Code, OR the Customer Group ID and MailingGroupID for Mail.XML/Postal Wizard to the customer, so the customer can use the Job information in his/her Query request.

### 4.31.1 StartTheClockNotification Field Description

| StartTheClockNotification | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Values** | **Business Rules** | **Comments** |
| StartTheClockNotification BEGINS | | | | |
| SubmittingParty | participantIDType complex type | - | Optional | Refer to this complex type in Section 5 |
| SubmittingSoftware | submittingSoftwareType complex type | - | Optional | Refer to this complex type in Section 5 |
| DataRecipient | dataRecipient complex type | - | Optional | Refer to this complex type in Section 5 |
| PushMessageID | String 25 | - | Optional | - |
| Choice Block BEGINS | | | Optional; Either UserLicenseCode/MaildatJobID or CustomerGroupID/MailingGroupID will be provided | |
| UserLicenseCode | userLicenseCodeType simple type | | Required when Mail.dat is used | Refer to this simple type in Section 6 |
| MaildatJobID | jobIDType simple type | - | Required when Mail.dat is used | Refer to this simple type in Section 6 |
| CustomerGroupID | String, 25 character | - | Optional | - |
| MailingGroupID | Non Negative Integer | - | Required when Mail.XML 12.0A is used | - |
| Choice Block ENDS | | | | |
| FSNonFSAvailabilityDate | Date | yyyy-mm-dd | Required | |
| Notification Date | Date | yyyy-mm-dd | Required | |
| StartTheClockNotification ENDS | | | | |

## 4.32 StartTheClockDelivery

The purpose of this message is to deliver the StartTheClock data to recipient server i.e. customer's server.

**Prerequisites**

Mailer has subscribed to receive StartTheClock Delivery messages.

- Mailer submits Mail.dat jobs or Mail XML eDoc messages to the *PostalOne!* System
- USPS validates Mail.XML messages
- USPS processes the Mail.dat jobs or Mail.XML messages, generates postage, and reports
- Postage statement finalization exposes data to SASP
- USPS interprets eDoc information, and performs Full-service verification
- USPS determines Data Recipients and Start-the-Clock
- USPS sends Mailer Feedback to the *PostalOne!* System
- USPS Checks the availability of  Start the Clock data to the Mailer
- USPS pushes Start The Clock delivery data to the Mailer's web service end point

**Business Rules**


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If the customer has registered with the *PostalOne!* system to receive the message, the *PostalOne!* system will provide the:

- Job information, either the Mail.dat Job ID and User License Code OR the Customer Group ID and MailingGroupID for Mail.XML/Postal Wizard to the customer
- Zero or more StartTheClockBMEUBlock blocks for the job
- Zero or more StartTheClockDropShipBlock blocks for the job
- Zero or more StartTheClockPlantLoadBlock blocks for the job
- In addition, optional return Info block in case of issues or no data found. All return codes and their descriptions for the Response messages will be made available by the USPS for implementation based upon the schedule made available in the External Timeline for IM implementation document.

### 4.32.1 StartTheClockDelivery Field Description

| StartTheClockDelivery | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Values** | **Business Rules** | **Comments** |
| StartTheClockDelivery BEGINS | | | | |
| SubmittingParty | participantIDType complex type | - | Optional | Refer to this complex type in Section 5 |
| SubmittingSoftware | submittingSoftwareType complex type | - | Optional | Refer to this complex type in Section 5 |
| DataRecipient | dataRecipient complex type | - | Optional | Refer to this complex type in Section 5 |
| Push Message ID | String 25 | - | Optional | - |
| ClockStarted | clockStartedType complex type | - | Required1 to many allowed | Refer to this complex type in Section 5 |
| StartTheClockDelivery ENDS | | | | |

## 4.33 StartTheClockQueryRequest

This message is sent by customer to pull StartTheClock data.

**Prerequisites**

- Customer uses Mail.XML version 12.0A
- USPS validates the request messages
- USPS retrieves the data based on the search criteria provided in the request
- USPS returns response to the Customer

**Business Rules**

With each StartTheClockQueryRequest message, the customer needs to provide information for all required blocks. Business rules for some of the fields are given below – some of them are optional fields.

- SubmittingParty – The *PostalOne!* system for all data distribution for full-service messages, i.e., non-FAST, non-eDoc messages, will only accept a MID or a CRID as a valid id.
- SubmittingSoftware – The *PostalOne!* system for messages that it receives from the customer for the Mail.XML will always require
  - A valid software name in the SoftwareName element
  - A valid software vendor company name in the vendor element
  - The most current version number of the software in the Version element
  - A valid Approval Date and a valid Approval Key in the ApprovalDate and ApprovalKey elements. The approval date is the date when the USPS approved the software usage in the USPS production environment and a valid Approval Key is what the USPS provided to the Software Vendor or Mailer (who may have developed their own software) as authorization to use in all messages.


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- The FAST appointment ID or the CSA Dispatch ID, created by the FAST system, can be provided optionally in the ConsigneeApptID or CSADispatchNumber elements respectively.
- The job information can also be provided optionally, either the Mail.dat Job ID and User License Code, OR the Customer Group ID and MailingGroupID for Mail.XML/Postal Wizard by the customer.
- The customer can also optionally provide the Permit information or publication number information to receive the StartTheClock data in PermitNumber, PermitType, and PermitZip4 elements or in the PublicationNumber element.
- The customer must provide a date range in the LowerDateRange and UpperDateRange elements for all query requests.

### 4.33.1 StartTheClockQueryRequest Field Description

| **StartTheClockQueryRequest** | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Values** | **Business Rules** | **Comments** |
| StartTheClockQueryRequest BEGINS | | | | |
| SubmittingParty | participantIDType complex type | - | Optional | Refer to this complex type in Section 5 |
| SubmittingSoftware | submittingSoftwareType complex type | - | Required | Refer to this complex type in Section 5 |
| SubmitterTrackingID | Mailxml_base:s20 | | Required | Refer to this simple type in Section 6 |
| Choice Block BEGINS | | | Optional If provided then either ConsigneeApptID or CSADispatchNumber is required | |
| ConsigneeApptID | String 12 | - | Required | - |
| CSADispatchNumber | String 10 | - | Required | - |
| Choice Block ENDS | | | | |
| Choice Block BEGINS | | | Optional; Either UserLicenseCode/MaildatJobID or CustomerGroupID/MailingGroupID or CustomerAccount block is required | |
| UserLicenseCode | userLicenseCodeType simple type | | Required when Mail.dat is used | Refer to this simple type in Section 6 |
| MaildatJobID | jobIDType simple type | - | Required when Mail.dat is used | Refer to this simple type in Section 6 |
| CustomerGroupID | String, 25 character | - | Optional | - |
| MailingGroupID | Non Negative Integer | - | Required when Mail.XML 12.0A is used | - |
| CustomerAccount | permitPublicationDataType complex type | - | Required | Refer to this complex type in Section 5 |
| Choice Block ENDS | | | | |
| LowerDateRange | Date | yyyy-mm-dd | Required | This date is a *PostalOne!* date starting in March 2010 to make sure time delay issues when the data is received by the *PostalOne!* system do not have any impact to the customer |


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| StartTheClockQueryRequest | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Values** | **Business Rules** | **Comments** |
| | | | | querying the data. |
| UpperDateRange | Date | yyyy-mm-dd | Required | See Lower Date Range comment above. |
| StartTheClockQueryRequest ENDS | | | | |

## 4.34 StartTheClockQueryResponse

This message contains StartTheClock data and is sent upon receiving the request message.

**Prerequisites**

- Customer uses Mail.XML version 12.0A
- USPS validates the request messages
- USPS retrieves the data based on the search criteria provided in the request
- USPS returns response to the Customer

**Business Rules**

The StartTheClockQuery Response has two major choice blocks one is QueryResults and the other is QueryErrors.

- In QueryResults,
- Data will be filtered based on the request criteria
- The job information will be returned by the USPS *PostalOne!* system, and the Mail.dat Job information will be returned or Mail.XML job information will be returned. The Mail.dat Job ID and User License Code elements represent Mail.dat information and the Customer Group ID and MailingGroupID represent the Mail.XML/Postal Wizard information.
- The customer will receive one or more ClockStarted blocks. The block includes StartTheClockBMEUBlock, StartTheClockPlantLoadBlock, and StartTheClockDropShipBlock.
- The USPS as part of the QueryResults to communicate any issues can return an optional ReturnCode and Description.
- The QueryError Block provides zero or more return codes and descriptions to communicate any issues with the response of the query.

### 4.34.1 StartTheClockQueryResponse Field Description

| StartTheClockQueryResponse | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Values** | **Business Rules** | **Comments** |
| StartTheClockQueryResponse BEGINS | | | | |
| LargeTransactionDividerGroupType | LargeTransactionDividerGroupType attribute | | Required | - |
| TrackingID | String 20 | - | Optional; Allows user to retrieve data without requerying again. | - |
| SubmitterTrackingID | Mailxml_base:s20 | | Required | Refer to this simple type in Section 6 |
| Choice Block BEGINS | | | Either QueryResult or QueryError block is returned | |
| Query Result Block BEGINS | - | - | - | |
| Sequence Block # 1 | | | 1 to many | |


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| StartTheClockQueryResponse | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Values** | **Business Rules** | **Comments** |
| BEGINS | | | | |
| LargeTransactionDividerResult | LargeTransactionDividerResult attribute | - | Optional | Refer to this attribute block in Section 5 |
| Sequence Block #2 BEGINS | | | 1 to many | |
| ClockStarted | clockStartedType complex type | - | Required | Refer to this complex type in Section 5 |
| ReturnInfo | basicReturnInfo complex type | - | Optional | Refer to this complex type in Section 5 |
| Sequence Block # 2 ENDS | | | | |
| Sequence Block # 1 ENDS | | | | |
| QueryResults Block ENDS | | | | |
| | | | | |
| Query Error Block BEGINS | | | | |
| ReturnInfo | basicReturnInfo complex type | - | Required | Refer to this complex type in Section 5 |
| Query Error Block ENDS | | | | |
| StartTheClockQueryResponse ENDS | | | | |


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# 5. Mail.XML 12.0A Complex and Attribute Groups Definitions

## 5.1 Complex Type: AddressType

| Complex Type: AddressType | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Value** | **Business Rules** | **Comments** |
| addressType BEGINS | | | | |
| CommunicationRole (as attribute) | communicationRoleType simple type | - | Optional Attribute | Refer to this simple type in Section 6 |
| Address1 | String 64 | | Required | |
| Address2 | String 64 | | Optional | |
| Address3 | String 40 | | Optional | |
| Address4 | String 40 | | Optional | |
| City | String 45 | | Required | |
| County | String 45 | | Optional | |
| State | stateCode simple type | - | Required | Refer to this simple type in Section 6 |
| ZipCode | zipCode simple type | | Required | Refer to this simple type in Section 6 |
| GPSCoordinates | gPSCoordinates complex type | - | Optional | Refer to this complex type in Section 5 |
| addressType ENDS | | | | |

## 5.2 Complex Type: addressCorrectionAddressType

| Complex Type: addressCorrectionAddressType | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Values** | **Business Rules** | **Comments** |
| addressCorrectionAddressType BEGINS | | | | |
| AddressType | addressType simple type | - | Optional | Refer to this simple type in Section 6 |
| UrbanizationName | String 28 | - | Optional | - |
| PrimaryNumber | String 10 | - | Optional | - |
| PreDirectional | String 2 | - | Optional | - |
| StreetName | String 28 | - | Optional | - |
| StreetSuffix | String 4 | - | Optional | - |
| PostDirectional | String 2 | - | Optional | - |
| UnitDesignator | String 4 | - | Optional | - |
| SecondaryNumber | String 10 | - | Optional | - |
| City | String 28 | - | Optional | - |
| State | stateCode simple type | - | Optional | Refer to this simple type in Section 6 |
| Choice block BEGINS | | | Optional Choice block. Either ZipCode and ZipCodePlus4 OR DeliveryPoint11DigitZip is required. | |
| ZipCode | Numeric String 5 | - | Required | This element will be returned when the |


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| Complex Type: addressCorrectionAddressType | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Values** | **Business Rules** | **Comments** |
| | | | | *PostalOne!* system received 5-digit ZipCode from SASP |
| ZipCodePlus4 | Numeric String 4 | - | Optional | When 9-digit ZipCode is received from SASP |
| DeliveryPoint11DigitZip | Numeric String 11 | - | Required | When 11-digit ZipCode is received from SASP |
| Choice Block ENDS | | | | |
| addressCorrectionAddressType ENDS | | | | |

## 5.3 Complex Type: AddressCorrectionType

| Complex Type: AddressCorrectionType | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Values** | **Business Rules** | **Comments** |
| AddressCorrection BEGINS | | | | |
| Choice Block BEGINS | | | Optional | |
| UserLicenseCode | userLicenseCodeType simple type | | Required when Mail.dat is used | Refer to this simple type in Section 6 |
| MaildatJobID | jobIDType simple type | - | Required when Mail.dat is used | Refer to this simple type in Section 6 |
| CustomerGroupID | String, 25 character | - | Optional | - |
| MailingGroupID | Non Negative Integer | - | Required when Mail.XML 12.0A is used | - |
| Choice Block ENDS | | | | |
| Choice Block BEGINS | | | Optional. When provided; one of the following is required: MailerID6 or MailerID9 | |
| OriginalMailerID6 | mailerID6Type simple type | - | Required | Refer to this simple type in Section 6 |
| OriginalMailerID9 | mailerID9Type simple type | - | Required | Refer to this simple type in Section 6 |
| Choice Block ENDS | | | | |
| OriginalIMB | iMBType simple type | - | Optional | Refer to this simple type in Section 6 |
| RecordCreationDate | Date | yyyy-mm-dd | Optional | - |
| MoveEffectiveDate | Date | yyyy-mm-dd | Optional | - |
| MoveType | addressCorrectionMoveType simple type | - | Optional | Refer to this simple type in Section 6 |
| DeliverabilityCodeType | deliverabilityCodeType simple type | - | Optional | Refer to this simple type in Section 6 |
| FullServiceComplianceIndicator | fullServiceComplianceIndictorType simple type | - | Optional | Refer to this simple type in Section 6 |
| FullServiceNonComplianceReasonCode | reasonCodeType simple type | - | Optional | Refer to this simple type in Section 6 |
| COAName block BEGINS | | | Optional Block | |
| Choice Block | | | Either provide | |


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| Complex Type: AddressCorrectionType | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Values** | **Business Rules** | **Comments** |
| BEGINS | | | Business Name or everything else in this block | |
| BusinessName | String 50 | - | Required | - |
| LastName | String, Length 50 | - | Required | - |
| FirstNameMiddleNam e | String, Length 15 | - | Required | - |
| Prefix | String, Length 15 | - | Optional | |
| Suffix | String, Length 15 | - | Optional | - |
| Choice Block ENDS | | | | |
| COAName Block ENDs | | | | |
| KeylineFromEDoc | String | - | Optional | - |
| OldAddress | addressCorrectionAd dressType complex type | | Optional | Refer to this complex type in Section 5 |
| NewAddress Block BEGINS | - | | Optional | |
| Choice Block BEGINS | | | | |
| NewDomesticAddress | addressCorrectionAd dressType complex type | - | Required when block info is provided and no foreign address | Refer to this complex type in Section 5 |
| NewForeignAddress | foreignAddressType complex type | - | Required when block info is provided and no domestic address correction | Refer to this complex type in Section 5 |
| Choice Block ENDS | | | | |
| NewAddress Block ENDS | | | | |
| PrivateMailbox | String, Length 37 | | Optional | - |
| ClassNotificationType | classNotificationType | - | Optional | Refer to this simple type in Section 6 |
| FeeNotification | FeeNotificationType simple type | - | Optional | Refer to this simple type in Section 6 |
| BillReasonCode | billReasonCodeType simple type | - | Optional | Refer to this simple type in Section 6 |
| FreeChargeFlag | yesNo simple type | - | Optional | Refer to this simple type in Section 6 |
| FSNonFSAvailabilityD ate | Date | - | Optional | - |
| ReturnInfo | basicReturnInfo complex type | - | Optional | Refer to this complex type in Section 5 |
| AddressCorrection ENDS | | | | |

## 5.4 Complex Type: basicReturnInfo

| Complex Type: basicReturnInfo | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Values** | **Business Rules** | **Comments** |
| Sequence Block BEGINS | | | Optional0 to many allowed | |
| ReturnCode | Numeric String – Length 4 | - | Optional | |
| ReturnDescription | String, Length 260 | - | Required | |


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| Complex Type: basicReturnInfo | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Values** | **Business Rules** | **Comments** |
| ContainerErrorWarningBlock | containerErrorWarningBlockType complex type | - | Optional | Refer to this complex type in Section 5 |
| Sequence Block ENDS | | | | |

## 5.5 Complex Type: ByForConflictType

| Complex Type: ByForConflictType | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Values** | **Business Rules** | **Comments** |
| Choice Block BEGINS | | | Optional; Either UserLicenseCode/MaildatJobID or CustomerGroupID/MailingGroupID will be provided | |
| UserLicenseCode | userLicenseCodeType simple type | - | Required | Refer to this simple type in Section 6 |
| MaildatJobID | jobIDType simple type | - | Required | Refer to this simple type in Section 6 |
| CustomerGroupID | String 25 | - | Optional | - |
| MailingGroupID | nonNegativeInteger | - | Required | - |
| Choice Block ENDS | | | | |
| MailOwnerConflict Block BEGINS | | | Optional.0 to many allowed | |
| Choice Block BEGINS | | | One of the following blocks is required: MailOwnerCRID, MailOwnerMailerID6, MailOwnerID9, or PermitInfo block | |
| MailOwnerCRID | CRIDType simple type | - | Required | Refer to this simple type in Section 6 |
| MailOwnerMailerID6 | mailerID6Type simple type | - | Required | Refer to this simple type in Section 6 |
| MailOwnerMailerID9 | mailerID9Type simple type | - | Required | Refer to this simple type in Section 6 |
| PermitInfo | permitPublicationDataType complex type | - | Required | Refer to this complex type in Section 5 |
| Choice Block ENDS | | | | |
| MailOwnerConflictError block BEGINS | | | Required1 to many allowed | |
| Choice Block BEGINS | | | Required; Maximum 2 occurrences allowed | |
| MailOwnerCRID | CRIDType simple type | - | Required | Refer to this simple type in Section 6 |
| MailOwnerMailerID6 | mailerID6Type simple type | - | Required | Refer to this simple type in Section 6 |
| MailOwnerMailerID9 | mailerID9Type simple type | - | Required | Refer to this simple type in Section 6 |
| PermitInfo | permitPublicationDataType complex type | - | Required | Refer to this complex type in Section 5 |
| Choice Block ENDS | | | | |
| ConflictReasonCode | String 2 | - | Required | - |
| ConflictReasonDescription | xs:string | - | Required | - |


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| Complex Type: ByForConflictType | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Values** | **Business Rules** | **Comments** |
| MailOwnerConflictError block ENDS | | | | |
| MailOwnerConflict block ENDS | | | | |
| MailPreparerConflict Block BEGINS | | | Optional; 0 to many allowed | |
| Choice Block BEGINS | | | One of the following blocks is required: MailOwnerCRID, MailOwnerID6, MailOwnerID9, PermitInfo block | |
| MailPreparerCRID | CRIDType simple type | - | Required | Refer to this simple type in Section 6 |
| MailPreparerMailerID6 | mailerID6Type simple type | - | Required | Refer to this simple type in Section 6 |
| MailPreparerMailerID9 | mailerID9Type simple type | - | Required | Refer to this simple type in Section 6 |
| PermitInfo | permitPublicationDataType complex type | - | Required | Refer to this complex type in Section 5 |
| Choice Block ENDS | | | | |
| MailPreparerConflictError block BEGINS | | | Required; 1 to many allowed | |
| Choice Block BEGINS | | | Required; Maximum 2 occurrences allowed | |
| MailPreparerCRID | CRIDType simple type | - | Required | Refer to this simple type in Section 6 |
| MailPreparerMailerID6 | mailerID6Type simple type | - | Required | Refer to this simple type in Section 6 |
| MailPreparerMailerID9 | mailerID9Type simple type | - | Required | Refer to this simple type in Section 6 |
| PermitInfo | permitPublicationDataType complex type | - | Required | Refer to this complex type in Section 5 |
| Choice Block ENDS | | | | |
| ConflictReasonCode | String 2 | - | Required | - |
| ConflictReasonDescription | xs:string | - | Required | - |
| MailPreparerConflictError block ENDS | | | | |
| MailPreparerConflict block ENDS | | | | |
| FSNonFSAvailabilityDate | Date | - | Optional | - |
| ReturnInfo | basicReturnInfo complex type | - | Optional | Refer to this complex type in Section 5 |

## 5.6 Attribute: CastOfCharacterResponseHeaderInfo

| Attribute: CastOfCharacterResponseHeaderInfo | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Values** | **Business Rules** | **Comments** |
| Original Sender Msg ID | String, 12 | - | Required | - |
| Receiver Msg ID | String, 12 | - | Required | - |


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## 5.7 Complex Type: ContainerVisibilityEntry

| Complex Type: ContainerVisibilityEntry | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Values** | **Business Rules** | **Comments** |
| ContainerVisibilityEntry BEGINS | | | | |
| Choice Block BEGINS | - | - | Optional | - |
| UserLicenseCode | userLicenseCodeType simple type | - | Required when Mail.dat is used | Refer to this simple type in Section 6 |
| MaildatJobID | jobIDType simple type | - | Required when Mail.dat is used | Refer to this simple type in Section 6 |
| CustomerGroupID | String 25 | - | Optional | - |
| MailingGroupID | nonNegativeInteger | - | Required | - |
| Choice Block ENDS | | | | |
| ConsigneeApptID | String 12 | - | Optional | - |
| LogicalIndicator | mailxml_base:yesNo | | Optional | |
| CSAID | mailxml_base:s10 | | Optional | |
| ContainerID | String 6 | | Optional | Refer to this simple type in Section 6 |
| ParentContainerID | String 6 | | Optional | Refer to this simple type in Section 6 |
| SiblingContainerID | String 6 | | Optional | Refer to this simple type in Section 6 |
| ContainerType | mailxml_base:mailXMLContainerType | | Optional | Refer to this simple type in Section 6 |
| ScanEvent | mailxml_dd: ScanEventType | | Optional | Refer to this Complex type in Section 5 |
| Choice Block BEGINS | | | | |
| IMcb | mailxml_base:IMcbType | | Optional | |
| IMtb | mailxml_base:IMtbType | | Optional | |
| IMpb | mailxml_base:IMpbType | | Optional | |
| Choice Block ENDS | | | | |
| FullServiceCompliance Indicator | fullServiceComplianceIndicatorType simple type | - | Optional | Refer to this simple type in Section 6 |
| FullServiceNonComplianceReasonCode | reasonCodeType simple type | - | Optional | Refer to this simple type in Section 6 |
| FSNonFSAvailabilityDate | Date | - | Optional | - |
| FullServiceIndicator | mailxml_base:yesNo | | Optional | |
| ContainerVisibilityEntry ENDS | | | | |

## 5.8 Complex Type: clockStartedType

| Complex Type: clockStartedType | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Values** | **Business Rules** | **Comments** |
| clockStartedType BEGINS | | | | |
| StarttheclockBEMUBlock BEGINS | - | - | Optional0 to many allowed | - |
| Choice Block BEGINS | | | Optional; Either UserLicenseCode/Mai | |


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| Complex Type: clockStartedType | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Values** | **Business Rules** | **Comments** |
| | | | ldatJobID or CustomerGroupID/MailingGroupID will be provided | |
| UserLicenseCode | userLicenseCodeType simple type | | Required when Mail.dat is used | Refer to this simple type in Section 6 |
| MaildatJobID | jobIDType simple type | - | Required when Mail.dat is used | Refer to this simple type in Section 6 |
| CustomerGroupID | String, 25 character | - | Optional | - |
| MailingGroupID | Non Negative Integer | - | Required when Mail.XML 12.0A is used | - |
| Choice Block ENDS | | | | |
| PublicationNumber | String 8 | - | Optional | - |
| MailClass | mailClassType simple type | - | Optional | Refer to this simple type in Section 6 |
| ProcessingCategory | processingCategoryType simple type | - | Optional | Refer to this simple type in Section 6 |
| OriginFacilityName | String 50 | - | Optional | |
| OriginFacilityLocaleKey | localeKeyType simple type | - | Optional | Refer to this simple type in Section 6 |
| ArrivalDateTime | xs:dateTime | yyyy-mm-ddTHH:MM:SS | Optional | - |
| StartTheClockDate | xs:date | yyyy-mm-dd | Required | - |
| FullServiceComplianc e Indicator | fullServiceComplianceIndicatorType simple type | - | Optional | Refer to this simple type in Section 6 |
| FullServiceNonComplianceReasonCode | reasonCodeType simple type | - | Optional | Refer to this simple type in Section 6 |
| FSNonFSAvailabilityDate | Date | yyyy-mm-dd | Optional | - |
| Sequence Block BEGINS | | | Optional | |
| ContainerID | String 6 | - | Optional; 0 to many allowed | - |
| ContainerType | mailXMLContainerType simple type | - | Optional; 0 to many allowed | Refer to this simple type in Section 6 |
| Choice Block BEGINS | | | Optional; Only one of the following can be provided: IMcb, IMtb, or IMpb | |
| IMcb | IMcbType simple type | - | Optional; 0 to many allowed | Refer to this simple type in Section 6 |
| IMtb | IMtbType simple type | - | Optional; 0 to many allowed | Refer to this simple type in Section 6 |
| IMpb | IMpbType simple type | - | Optional; 0 to many allowed | Refer to this simple type in Section 6 |
| Choice Block ENDS | | | | |
| Sequence Block ENDS | | | | |
| StarttheclockBEMUBlock ENDS | | | | |
| | | | | |
| StarttheclockDropShipOrOrigin Block BEGINS | | | Optional; 0 to many allowed | |


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| Complex Type: clockStartedType | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Values** | **Business Rules** | **Comments** |
| Choice Block BEGINS | | | Optional; Either UserLicenseCode/MaildatJobID or CustomerGroupID/MailingGroupID will be provided | |
| UserLicenseCode | userLicenseCodeType simple type | | Required when Mail.dat is used | Refer to this simple type in Section 6 |
| MaildatJobID | jobIDType simple type | - | Required when Mail.dat is used | Refer to this simple type in Section 6 |
| CustomerGroupID | String, 25 character | - | Optional | - |
| MailingGroupID | Non Negative Integer | - | Required when Mail.XML 12.0A is used | - |
| Sequence Block ENDS | | | | |
| Choice Block ENDS | | | | |
| Choice Block BEGINS | | | Optional; Either ConsigneeApptID or CSADispatchNumber is returned | |
| ConsigneeApptID | Mailxml_base:s12 | String 10 | Required when CSA Dispatch Number not provided | - |
| CSADispatchNumber | String 10 | - | Required when ConsigneeApptID is not provided | - |
| Choice Block ENDS | | | | |
| PublicationNumber | String 8 | - | Optional | - |
| MailClass | mailClassType simple type | - | Optional | Refer to this simple type in Section 6 |
| ProcessingCategory | processingCategoryType simple type | - | Optional | Refer to this simple type in Section 6 |
| DropShipYesNo | yesNo simple type | - | Required | Refer to this simple type in Section 6 |
| UspsFacilityName | String 50 | - | Optional | - |
| UspsFacilityLocaleKey | localeKeyType simple type | - | Optional | Refer to this simple type in Section 6 |
| Sequence Block BEGINS | | | | |
| City | Mailxml_base:s45 | | Optional | |
| State | Mailxml_base:stateCode | | Optional | |
| Sequence Block ENDS | | | | |
| ApptDateTime | xs:dateTime | yyyy-mm-ddTHH:MM:SS | Optional | - |
| ArrivalDateTime | xs:dateTime | yyyy-mm-ddTHH:MM:SS | Optional | - |
| UnloadStartDateTime | xs:dateTime | yyyy-mm-ddTHH:MM:SS | Optional | - |
| UnloadEndDateTime | xs:dateTime | yyyy-mm-ddTHH:MM:SS | Optional | - |
| ApptStatus | apptStatusType simple type | - | Optional | Refer to this simple type in Section 6 |
| StartTheClockDate | xs:date | yyyy-mm-dd | Optional | - |


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| Complex Type: clockStartedType | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Values** | **Business Rules** | **Comments** |
| FullServiceCompliance Indicator | fullServiceComplianceIndicatorType simple type | - | Optional | Refer to this simple type in Section 6 |
| FullServiceNonComplianceReasonCode | reasonCodeType simple type | - | Optional | Refer to this simple type in Section 6 |
| FSNonFSAvailabilityDate | xs:date | yyyy-mm-dd | Optional | - |
| FullServiceIndicator | mailxml_base:yesNo | | Optional | |
| Sequence Block BEGINS | | | Optional | |
| ContainerID | String 6 | - | Optional; 0 to many allowed | - |
| ContainerType | mailXMLContainerType simple type | - | Optional; 0 to many allowed | Refer to this simple type in Section 6 |
| Choice Block BEGINS | | | Optional; Only one of the following can be provided: IMcb, IMtb, or IMpb | |
| IMcb | IMcbType simple type | - | Optional; 0 to many allowed | Refer to this simple type in Section 6 |
| IMtb | IMtbType simple type | - | Optional; 0 to many allowed | Refer to this simple type in Section 6 |
| IMpb | IMpbType simple type | - | Optional; 0 to many allowed | Refer to this simple type in Section 6 |
| Choice Block ENDS | | | | |
| Sequence Block ENDS | | | | |
| StarttheclockDropShipOrigin Block ENDS | | | | |
| | | | | |
| StarttheclockPlantLoad Block BEGINS | | | Optional; 0 to many allowed | |
| Choice Block BEGINS | | | Optional; Either UserLicenseCode/MaildatJobID or CustomerGroupID/MailingGroupID will be provided | |
| UserLicenseCode | userLicenseCodeType simple type | | Required when Mail.dat is used | Refer to this simple type in Section 6 |
| MaildatJobID | jobIDType simple type | - | Required when Mail.dat is used | Refer to this simple type in Section 6 |
| CustomerGroupID | String, 25 character | - | Optional | - |
| MailingGroupID | Non Negative Integer | - | Required when Mail.XML 12.0A is used | - |
| Choice Block ENDS | | | | |
| CSADispatchNumber | String 10 | - | Optional | - |
| PublicationNumber | String 8 | - | Optional | - |
| MailClass | mailClassType simple type | - | Optional | Refer to this simple type in Section 6 |
| ProcessingCategory | processingCategoryType simple type | - | Optional | Refer to this simple type in Section 6 |
| OriginFacilityName | String 50 | - | Optional | |
| OriginFacilityLocaleKey | localeKeyType simple type | - | Optional | Refer to this simple type in Section 6 |


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| Complex Type: clockStartedType | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Values** | **Business Rules** | **Comments** |
| MailReleasedDateTime | DateTime | yyyy-mm-ddTHH:MM:SS | Optional | - |
| StartTheClockDate | Date | yyyy-mm-dd | Optional | - |
| FullServiceCompliance Indicator | fullServiceComplianceIndicatorType simple type | - | Optional | Refer to this simple type in Section 6 |
| FullServiceNonComplianceReasonCode | reasonCodeType simple type | - | Optional | Refer to this simple type in Section 6 |
| FSNonFSAvailabilityDate | Date | yyyy-mm-dd | Optional | - |
| Sequence Block BEGINS | | | Optional | |
| ContainerID | String 6 | - | Optional; 0 to many allowed | - |
| ContainerType | mailXMLContainerType simple type | - | Optional; 0 to many allowed | Refer to this simple type in Section 6 |
| Choice Block BEGINS | | | Optional; Only one of the following can be provided: IMcb, IMtb, or IMpb | |
| IMcb | IMcbType simple type | - | Optional; 0 to many allowed | Refer to this simple type in Section 6 |
| IMtb | IMtbType simple type | - | Optional; 0 to many allowed | Refer to this simple type in Section 6 |
| IMpb | IMpbType simple type | - | Optional; 0 to many allowed | Refer to this simple type in Section 6 |
| Choice Block ENDS | | | | |
| Sequence Block ENDS | | | | |
| StarttheclockPlantLoad Block ENDS | | | | |
| clockStartedType ENDS | | | | |

## 5.9 Complex Type: CofCCreateRejectType

| Complex Type: CofCCreateRejectType | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Values** | **Business Rules** | **Comments** |
| Choice Block BEGINS | | | Choice is to either to return the MailPiece Group or Container Group block data or job info | |
| Choice Block Begins | | | | |
| User License Code | String | | Required when Mail.dat is used | - |
| Maildat Job ID | String | - | Required when Mail.dat is used | - |
| Customer Group ID | String, 25 character | - | Required when Mail.XML version is used | - |
| Mailing Group ID | Non Negative Integer | - | Required when Mail.XML 12.0A is used | - |
| Choice Block ENDS | | | | |
| MailPieceGroup | Complex | - | Required; System can | Refer to this complex |


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| Complex Type: CofCCreateRejectType | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Values** | **Business Rules** | **Comments** |
| | | | return 1 to many MailPiece Group block data | type in Section 5 |
| ContainerGroup | | | Required; System can return 1 to many Container Group block data | Refer to this complex type in Section 5 |
| Choice Block ENDS | | | | |
| ReturnInfo | Complex | - | Optional | Refer to this complex type in Section 5 |

## 5.10 Complex Type: containerGroupType

| Complex Type: containerGroupType | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Values** | **Business Rules** | **Comments** |
| Attribute Block BEGINS | | | | |
| SenderMailPieceGroupID | String 12 | - | - | - |
| ReceiverMailPieceGroupID | String 12 | - | - | - |
| Attribute Block ENDS | | | | |

## 5.11 Complex Type: ContainerErrorWarningBlockType

| Complex Type: ContainerErrorWarningBlockType | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Value** | **Business Rules** | **Comments** |
| ContainerErrorWarningBlockType BEGINS | | | | |
| ConsigneeContainerGroupingID | String 16 | | Optional | Refer to this simple type in Section 6 |
| ConsigneeContentID | String 12 | - | Optional | Refer to this simple type in Section 6 |
| ShipperContainerGroupingID | String 16 | - | Optional | Refer to this simple type in Section 6 |
| IMcb | IMcbType simple type | - | Optional | Refer to this simple type in Section 6 |
| IMtb | IMtbType simple type | - | Optional | Refer to this simple type in Section 6 |
| IMpb | IMpbType simple type | - | Optional | Refer to this simple type in Section 6 |
| MailContentName | String 30 | - | Optional | Refer to this simple type in Section 6 |
| SchedulerContentID | String 12 | - | Optional | Refer to this simple type in Section 6 |

## 5.12 Complex Type: DataRecipient

| Complex Type: DataRecipient | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Values** | **Business Rules** | **Comments** |
| CRID | CRIDType simple type | - | Required | Refer to this simple type in Section 6 |
| Roles | roleType simple type | - | Required | Refer to this simple type in Section 6 |


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## 5.13 Complex Type: dqrContainerInfoType

| Complex Type: dqrContainerInfoType | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Value** | **Business Rules** | **Comments** |
| fsdqrContainerInfoType BEGINS | | | | |
| ContainerID | String 6 | | Optional | |
| SiblingRefContainerID | String 6 | - | Optional | - |
| ParentContainerID | String 6 | | Optional | |
| ProcessingCategory | processingCategoryType simple type | - | Optional | Refer to this simple type in Section 6 |
| MailClass | mailClassType simple type | - | Optional | Refer to this simple type in Section 6 |
| USPSFacilityLocaleKey | localeKeyType simple type | - | Optional | Refer to this simple type in Section 6 |
| Sequence Block BEGINS | | | | |
| City | Mailxml_base:s45 | | Optional | |
| State | Mailxml_base:stateCode | | Optional | |
| Sequence Block ENDS | | | | |
| MailingDate | Date | yyyy-mm-dd | Optional | |
| ContainerType | mailXMLContainerType simple type | - | Optional | Refer to this simple type in Section 6 |
| IMcb | IMcbType simple type | - | Optional | Refer to this simple type in Section 6 |
| IMtb | String 25 | | Optional | |
| CSAID | String 10 | | Optional | |
| ConsigneeApptID | String 12 | | Optional | |
| FSNonFSAvailabilityDate | Date | - | Optional | - |
| VerificationError | mailxml_dd:verificationErrorType | | Optional0 to many | Refer to this complex type in Section 5 |
| Sequence BEGINS | | | Optional0 to many allowed | |
| PreparerCRID | CRIDType simple type | | Optional | Refer to this simple type in Section 6 |
| OwnerCRID | CRIDType simple type | | Optional | Refer to this simple type in Section 6 |
| Sequence ENDS | | | | |
| Choice Block BEGINS | | 0 to many; Either PieceInfo block or PieceRangeInfo block | | |
| PieceInfo Block BEGINS | | 0 to many | | |
| PhysicalPieceID | String 22 | | Required | |
| MailerPostageAccountID | String 10 | - | Optional | - |
| MPADescription | String 30 | - | Optional | - |


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| Complex Type: dqrContainerInfoType | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Value** | **Business Rules** | **Comments** |
| IMB | iMBType simple type | - | Required | Refer to this simple type in Section 6 |
| OwnerCRID | CRIDType simple type | - | Required | Refer to this simple type in Section 6 |
| PreparerCRID | CRIDType simple type | - | Required | Refer to this simple type in Section 6 |
| VerificationError | mailxml_dd:verificationErrorType | 1 to many | Required | Refer to this complex type in Section 5 |
| PieceInfo Block ENDS | | | | |
| | | | | |
| PieceRangeInfo Block BEGINS | | | Optional | |
| PieceRangeID | String 22 | | Required | |
| IMBUpperSerialization | iMBUpperSerializationType simple type | - | Required | Refer to this simple type in Section 6 |
| IMBLowerSerialization | iMBLowerSerializationType simple type | - | Required | Refer to this simple type in Section 6 |
| MailClass | mailClassType simple type | - | Required | Refer to this simple type in Section 6 |
| ProcessingCategory | processingCategoryType simple type | - | Optional | Refer to this simple type in Section 6 |
| PieceCountInRange | nonNegativeInteger | - | Optional | - |
| AffectedPieceCount | nonNegativeInteger | - | Optional | - |
| OwnerCRID | CRIDType simple type | | Required | Refer to this simple type in Section 6 |
| PreparerCRID | CRIDType simple type | | Required | Refer to this simple type in Section 6 |
| VerificationError | mailxml_dd:verificationErrorType | 1 to many | Required | Refer to this simple type in Section 6 |
| PieceRangeInfo Block ENDS | | | | |
| Choice Block ENDS | | | | |
| fsdqrContainerInfoType ENDS | | | | |

## 5.14 Complex Type: ForeignAddressType

| Complex Type: ForeignAddressType | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Value** | **Business Rules** | **Comments** |
| AddressLine1 | String 37 | | Optional | |
| AddressLine2 | String 37 | | Optional | |
| AddressLine3 | String 37 | | Optional | |
| CountryCode | String 3 | - | Optional | - |


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## 5.15 Complex Type: GPSCoordinates

| Complex Type: GPSCoordinates | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Value** | **Business Rules** | **Comments** |
| gPSCoordinates BEGINS | | | | |
| GPSSystem (as attribute) | gPSSystemType simple type | - | Optional Attribute | Refer to this simple type in Section 6 |
| Latitude | mailxml_base:dec18-8 | - | Required | Refer to this simple type in Section 6 |
| Longitude | mailxml_base:dec18-8 | - | Required | Refer to this simple type in Section 6 |
| Height block BEGINS | - | | Optional | |
| Value block BEGINS | - | - | Required | |
| UOM | mailxml_Base:UOMType | - | Required Attribute | Refer to this simple type in Section 6 |
| Value Block ENDS | | | | |
| RangeMin Block BEGINS | - | - | Optional | |
| UOM | mailxml_Base:UOMType | - | Required Attribute | Refer to this simple type in Section 6 |
| RangeMin Block ENDS | | | | |
| RangeMax Block BEGINS | - | - | Optional | |
| UOM | mailxml_Base:UOMType | - | Required Attribute | Refer to this simple type in Section 6 |
| RangeMax Block ENDS | | | | |
| Height bock ENDS | | | | |
| gPSCoordinates ENDS | | | | |

## 5.16 Complex Type: groupContainerIDType

| Complex Type: groupContainerIDType | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Values** | **Business Rules** | **Comments** |
| Attribute Block BEGINS | | | | |
| SenderMailPieceGroupID | String 12 | - | Required | - |
| ReceiverMailPieceGroupID | String 12 | - | Optional | - |
| Attribute Block ENDS | | | | |
| Choice Block BEGINS | | | 1 to many | |
| MailDatContainer | MailDatContainer | | Required | Refer to this complex |


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| Complex Type: groupContainerIDType | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Values** | **Business Rules** | **Comments** |
| | complex type | | | type in Section 5 |
| Mail.XML Container | mailXMLContainerIDType complex type | | Required | Refer to this complex type in Section 5 |
| ContainerBarcode | IMcbType simple type | | Required | Refer to this simple type in Section 6 |
| Choice Block ENDS | | | | |

## 5.17 Complex Type: IMbMailpieceScanData

| Complex Type: IMbMailpieceScanData | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Values** | **Business Rules** | **Comments** |
| Sequence Block BEGINS | | | Optional | |
| Choice Block BEGINS | | | | |
| Sequence Block ENDS | | | | |
| UserLicenseCode | mailxml_base:userLicenseCodeType | | | |
| MaildatJobID | mailxml_base:jobIDType | | | |
| Sequence Block ENDS | | | | |
| Sequence Block BEGINS | | | | |
| CustomerGroupID | mailxml_base:s25 | | | |
| MailingGroupID | nonNegativeInteger | | Optional | |
| Sequence Block ENDS | | | | |
| Choice Block ENDS | | | | |
| MPSCount | nonNegativeInteger | | | |
| Sequence Block BEGINS | | | Unbounded | |
| IMbScanRec | mailxml_base:s200 | | Unbounded | See pipe-delimination |
| Sequence Block ENDS | | | | |
| IMbMailpieceScanData ENDS | | | | |

**IMbScanRec**

IMbCode(31)|PackageID(6)|USPSFacilityLocaleKey(6)|ScanDateTime(30)|ScanState(1)|BundleScanType(1)|OperationsCode(3)

**ScanState:** The enumeration values for ScanState are 4 and 6.

4 = Enroute
6 = Out for Delivery

**BundleScanType:** The enumeration values for BundleScanType field are 1 and 2.

1 = Yes (Assumed)
2 = No (Actual)

Refer to Section 6 for further details on the data types of other fields

## 5.18 Complex Type: intelligentMailBarcodeType

| Complex Type: intelligentMailBarcodeType |
|---|


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| Field | Format | Acceptable Values | Business Rules | Comments |
|---|---|---|---|---|
| BarcodeID | iMBarcodeIDType | Numeric string 2 | Optional | Refer to this simple type in Section 6 |
| Choice Block BEGINS | | | Optional | |
| ServiceTypeCode | ServiceTypeCodeType simple type | Numeric string 3 | Required | Refer to this simple type in Section 6 |
| OR | | | | |
| MailClass | mailClassType simple type | Refer 'mailClassType' simple type | Required | Refer to this simple type in Section 6 |
| Choice Block ENDS | | | | |
| Choice Block BEGINS | | | | |
| MailerID6 | mailerID6Type | String 6 | Required | Refer to this simple type in Section 6 |
| SerialNumber9 | iMBSerialNumber9Type | Numeric string 9 | Required | Refer to this simple type in Section 6 |
| OR | | | | |
| MailerID9 | mailerID9Type | String 9 | Required | Refer to this simple type in Section 6 |
| SerialNumber6 | :iMBSerialNumber6Type | Numeric string 6 | Required | Refer to this simple type in Section 6 |
| Choice Block ENDS | | | | |
| DeliveryPointZIP | RoutingZipCodeType | String 11 | Optional | Refer to this simple type in Section 6 |

## 5.19 Attribute Group: LargeTransactionDividerResult

| Attribute Group: LargeTransactionDividerResult | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Values** | **Business Rules** | **Comments** |
| LargeTransactionDividerResult BEGINS | - | - | - | - |
| TrackingID | String 20 | - | Required | - |
| LargeTransactionDividerResult ENDS | - | - | - | - |

## 5.20 Attribute Group: LargeTransactionDividerGroupType

| Attribute Group: LargeTransactionDividerGroupType | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Values** | **Business Rules** | **Comments** |
| MessageGroupID | String, Length 20 | - | Required | - |
| TotalMessageCount | Positive Integer | - | Required | - |
| MessageSerialNumber | Positive Integer | - | Required | - |
| TransmittedRecordCount | Positive Integer | - | Required | - |


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| Attribute Group: LargeTransactionDividerGroupType | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Values** | **Business Rules** | **Comments** |
| TotalRecordsAcrossMessages | Positive Integer | - | Required | - |
| LastMessage | yesNo simple type | - | Optional; Default is set to “NO” | Refer to this simple type in Section 6 |

## 5.21 Attribute Group: LargeTransactionDividerGroupOptionalType

| Attribute Group: LargeTransactionDividerGroupOptionalType | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Values** | **Business Rules** | **Comments** |
| MessageGroupID | String, Length 20 | - | Optional | - |
| TotalMessageCount | Positive Integer | - | Optional | - |
| MessageSerialNumber | Positive Integer | - | Optional | - |
| TransmittedRecordCount | Positive Integer | - | Optional | - |
| TotalRecordsAcrossMessages | Positive Integer | - | Optional | - |
| LastMessage | yesNo simple type | - | Optional; Default is set to “NO” | Refer to this simple type in Section 6 |

## 5.22 Complex Type: mailDatContainerIDType

| Complex Type: mailDatContainerIDType | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Values** | **Business Rules** | **Comments** |
| UserLicenseCode | userLicenseCodeType simple type | | required | Refer to this simple type in Section 6 |
| MaildatJobID | jobIDType simple type | | required | Refer to this simple type in Section 6 |
| ContainerID | String 6 | | required | |
| UniqueContainerBarcode | IMcbType simple type | | Optional | Refer to this simple type in Section 6 |

## 5.23 Complex Type: mailPieceGroupType

| Complex Type: mailPieceGroupType | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Values** | **Business Rules** | **Comments** |
| Attribute Block BEGINS | | | | |
| SenderMailPieceGroupID | String 12 | - | - | - |
| ReceiverMailPieceGroupID | String 12 | - | - | - |
| Attribute Block ENDS | | | | |

## 5.24 Complex Type: mailPieceGroupCreateType

| Complex Type: mailPieceGroupCreateType | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Values** | **Business Rules** | **Comments** |
| Attribute Block BEGINS | | | | |
| SenderMailPieceGroupID | String 12 | - | - | - |


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| Complex Type: mailPieceGroupCreateType | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Values** | **Business Rules** | **Comments** |
| ReceiverMailPieceGroupID | String 12 | - | - | - |
| Attribute Block ENDS | | | | |
| Choice Block BEGINS | | | 1 to many | |
| MailPieceID | mailPieceIDType complex type | | Required | Refer 'mailPiece IDType' complex in Section 7 |
| Sequence Block BEGINS | | | | |
| LowestMailPieceID | mailPieceIDType complex type | | Required | Refer 'mailPiece IDType' complex in Section 7 |
| HighestMailPieceID | mailPieceIDType complex type | - | Required | Refer 'mailPiece IDType' complex in Section 7 |

## 5.25 Complex Type: mailPieceIDType

| Complex Type: mailPieceIDType | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Values** | **Business Rules** | **Comments** |
| Choice Block BEGINS | | | Optional | |
| IMB | intelligentMailBarcodeType complex type | | Required | Refer to this complex type in Section 7 |
| OR | | | | |
| PlanetCode | planetCodeType simple type | Min 11 and Max 13 characters string | Optional | Refer to this simple type in Section 6 |
| DeliveryPointZIP | RoutingZipCodeType | String 11 | Required | Refer to this simple type in Section 6 |
| OR | | | | |
| DeliveryContainerID | mailxml_base:ns22 | Numeric String 22 | Required | |
| DeliveryPointZIP | RoutingZipCodeType | String 11 | Required | Refer to this simple type in Section 6 |
| choice Block ENDS | | | | |

## 5.26 Complex Type: mailXMLContainerIDType

| Complex Type: mailXMLContainerIDType | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Values** | **Business Rules** | **Comments** |
| MailingGroupID | Non Negative Integer | | required | |
| CustomerGroupID | String 25 | | Required | |
| ContainerID | String 6 | | Required | |
| ContainerBarcode | IMcbType simple type | - | Optional | Refer to this simple type in Section 6 |
| Choice Block ENDS | | | | |

## 5.27 Attribute: mailXMLHeaderInfo

| Attribute: mailXMLHeaderInfo | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Values** | **Business Rules** | **Comments** |


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| Attribute: mailXMLHeaderInfo | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Values** | **Business Rules** | **Comments** |
| User License Code | String | | Optional | - |
| Maildat Job ID | String | - | Optional | - |
| Customer Group ID | String, 25 character | - | Optional | - |
| Mailing Group ID | Non Negative Integer | - | Optional | - |

## 5.28 Complex Type: MIDType

| Complex Type: MIDType | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Value** | **Business Rules** | **Comments** |
| MIDType BEGINS | | | | |
| MID6 | mailerID6Type simple type | | Required | Refer to this simple type in Section 6 |
| OR | | | | |
| MID9 | mailerID9Type simple type | | Required | Refer to this simple type in Section 6 |
| MIDType ENDS | | | | |

## 5.29 Complex Type: MPSRequestTypeType

| Complex Type: MPSRequestTypeType | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Value** | **Business Rules** | **Comments** |
| MPSRequestTypeType BEGINS | | | | |
| ScanState | mailxml_dd:MPSStateType | | Required | Refer to this simple type in Section 6 |
| MPSQueryBy | mailxml_dd:MPSQueryType | | Required | Refer to this simple type in Section 6 |
| MPSRequestTypeType ENDS | | | | |

## 5.30 Complex Type: NixieDetailType

| Complex Type: NixieDetailType | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Values** | **Business Rules** | **Comments** |
| NixieDetailType BEGINS | | | | |
| Choice Block BEGINS | | | Optional Choice block. If provided then: either UserLicenseCode/MaildatJobID or CustomerGroupID/MailingGroupID are required | |
| UserLicenseCode | userLicenseCodeType simple type | | Conditionally Required when Mail.dat is used | Refer to this simple type in Section 6 |
| MaildatJobID | jobIDType simple type | - | Conditionally Required when Mail.dat is used | Refer to this simple type in Section 6 |
| CustomerGroupID | String, 25 character | - | Optional | - |
| MailingGroupID | Non Negative Integer | - | Conditionally Required when Mail.XML12.0A is | - |


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| Complex Type: NixieDetailType | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Values** | **Business Rules** | **Comments** |
| | | | used | |
| Choice Block ENDS | | | | |
| Choice Block BEGINS | | | Optional block. If provided then one of the following element is required:OriginalMailerID6 or OriginalMailerID9 | |
| OriginalMailerID6 | mailerID6Type simple type | - | Required. | Refer to this simple type in Section 6 |
| OriginalMailerID9 | mailerID9Type | - | Required | Refer to this simple type in Section 6 |
| Choice Block ENDS | | | | |
| OriginalIMB | iMBType simple type | - | Optional | Refer to this simple type in Section 6 |
| RecordCreationDate | Date | yyyy-mm-dd | Optional | - |
| ActionCode | actionCodeType simple type | - | Optional | Refer to this simple type in Section 6 |
| ParsedAddressOnPiece | String | - | Optional | - |
| OnPieceCityStateZip | String | - | Optional | - |
| ReturnedToAddress | String | - | Optional | |
| ReturnedtoCityStateZip | String | - | Optional | - |
| ReasonCode | reasonCodeType simple type | - | Optional | Refer to this simple type in Section 6 |
| KeylineFromEDoc | String | - | Optional | - |
| ClassNotificationType | classNotificationType simple type | - | Optional | Refer to this simple type in Section 6 |
| FeeNotification | FeeNotificationType simple type | - | Optional | Refer to this simple type in Section 6 |
| FullServiceComplianceIndicator | fullServiceComplianceIndicatorType simple type | - | Optional | Refer to this simple type in Section 6 |
| FullServiceNonComplianceReasonCode | reasonCodeType simple type | - | Optional | Refer to this simple type in Section 6 |
| BillReasonCode | billReasonCodeType simple type | - | Optional | Refer to this simple type in Section 6 |
| FreeChargeFlag | yesNo simple type | - | Optional | Refer to this simple type in Section 6 |
| FSNonFSAvailabilityDate | Date | - | Optional | - |
| ReturnInfo | basicReturnInfo complex type | - | Optional | Refer to this complex type in Section 5 |
| NixieDetailType ENDS | | | | |

## 5.31 Complex Type: NonComplianceDataWithPostageOwedReportType

| Complex Type: NonComplianceDataWithPostageOwedReportType | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Value** | **Business Rules** | **Comments** |
| NonComplianceDataWithPostageOwedReportType BEGINS | | | | |
| Choice Block | | | Required block. Either | |


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| Complex Type: NonComplianceDataWithPostageOwedReportType | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Value** | **Business Rules** | **Comments** |
| BEGINS | | | ULC/MaildatJobID OR CustomerGroupID/MailingGroupID are required. | |
| UserLicenseCode | userLicenseCodeType simple type | | Required when Mail.dat is used | Refer to this simple type in Section 6 |
| MaildatJobID | jobIDType simple type | - | Required when Mail.dat is used | Refer to this simple type in Section 6 |
| CustomerGroupID | String, 25 character | - | Optional | - |
| MailingGroupID | Non Negative Integer | - | Required when Mail.XML 12.0A is used | - |
| Choice Block ENDS | | | | |
| eDocSenderCRID | CRIDType simple type | - | Optional | Refer to this simple type in Section 6 |
| Sequence Block BEGINS | | | Optional0 to many allowed | |
| TotalFSPieces | nonNegativeInteger | - | Optional | - |
| TotalAffectedPieces | nonNegativeInteger | - | Optional | - |
| TotalDiscountAssessment | Double | - | Optional | - |
| MailClass | mailClassType simple type | - | Optional | Refer to this simple type in Section 6 |
| DiscountFinalized | yesNo simple type | - | Optional; Yes indicates that discount has been finalized. | Refer to this simple type in Section 6 |
| Sequence Block ENDS | | | | |
| | | | | |
| MailingIDDetail Block BEGINS | | | Optional; 0 to many allowed | |
| ContainerID | String 6 | - | Optional | - |
| ContainerType | mailXMLContainerType simple type | - | Optional | Refer to this simple type in Section 6 |
| SiblingRefContainerID | String 6 | - | Optional | - |
| ParentContainerID | String 6 | - | Optional | - |
| IMcb | IMcbType simple type | - | Optional | Refer to this simple type in Section 6 |
| IMtb | IMtbType simple type | - | Optional | Refer to this simple type in Section 6 |
| Sequence Block BEGINS | | | Optional; 0 to many allowed | |
| VerificationReportType | mailxml_dd:verificationErrorType | - | Optional | Refer to this simple type in Section 6 |
| TotalAffectedPieceCnt | nonNegativeInteger | - | Optional | - |
| VerificationReportType | mailxml_dd:verificationErrorType | - | Optional | Refer to this simple type in Section 6 |
| Sequence Block ENDS | | | | |
| NonComplianceDataWithPostageOwedReportType ENDS | | | | |


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## 5.32 Complex Type: permitPublicationDataType

| Complex Type: permitPublicationDataType | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Values** | **Business Rules** | **Comments** |
| permitPublicationData Type BEGINS | | | | |
| Choice Block BEGINS | - | - | Either PermitNumber, PermitType, PermitZip4 OR Publication Number is required | - |
| Sequence Block BEGINS | | | | |
| Permit Number | String, 8 | - | Required, when providing Permit Number and Permit Zip4 data | - |
| Permit Type | permitTypeType simple type | - | Required | Refer to this simple type in Section 6 |
| Permit Zip4 | Numeric String, 9 | - | Required when providing Permit Number and Permit Zip 4 data | Refer to this simple type in Section 6 |
| Sequence Block ENDS | | | | |
| Publication Number | String, 8 | - | Either provide Permit Number, Permit Type 4 and optional Permit Type OR this field. | - |
| Choice Block ENDS | | | | |
| permitPublicationData Type ENDS | | | | |

## 5.33 Complex Type: ScanEventType

| Complex Type: ScanEventType | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Values** | **Business Rules** | **Comments** |
| Sequence Block BEGINS | | | Unbounded | |
| USPSFacilityLocaleKey | mailxml_base:localeKeyType | | Optional | |
| Sequence Block BEGINS | | | | |
| City | mailxml_base:s45 | | Optional | |
| State | mailxml_base:stateCode | | Optional | |
| Sequence Block ENDS | | | | |
| USPSFacilityName | mailxml_base:s50 | | Optional | |
| ScanDateTime | xs:dateTime | | Optional | |
| ContainerScanState | mailxml_dd:containerScanStateType | | Optional | |
| ScanStatus | mailxml_base:inductionStatusType | | Optional | |


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| Complex Type: ScanEventType | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Values** | **Business Rules** | **Comments** |
| ScanIssueDescription | mailxml_base:s50 | | Optional | |
| ScanIssueResolution | mailxml_base:s50 | | Optional | |
| Sequence Block ENDS | | | | |

## 5.34 Complex Type: ScanSTCCount

| Complex Type: ScanSTCCount | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Values** | **Business Rules** | **Comments** |
| choice Block BEGINS | | | | |
| choice Block BEGINS | | | Optional | |
| Sequence  Block BEGINS | | | | |
| UserLicenseCode | mailxml_base:userLicenseCodeType | | | |
| MaildatJobID | mailxml_base:jobIDType | | | |
| Sequence Block ENDS | | | | |
| Sequence  Block BEGINS | | | | |
| CustomerGroupID | mailxml_base:s25 | | Optional | |
| Sequence Block ENDS | | | | |
| Choice Block ENDS | | | | |
| ConsigneeApptID | mailxml_base:s12 | | Optional | |
| LogicalIndicator | mailxml_base:yesNo | | Optional | |
| Sequence Block BEGINS | | | Optional | |
| | | | | |
| PlannedIMcbCount | | | | |
| | nonNegativeInteger | | Optional Unbounded | |
| PaidIMcbCount | nonNegativeInteger | | Optional Unbounded | |
| ScannedIMcbCount | | | | |
| IMcbwithSTCCount | | | | |
| Sequence Block ENDS | | | | |

## 5.35 Complex Type: SubmittingParty, participantIDType

| Complex Type: SubmittingParty, participantIDType | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Values** | **Business Rules** | **Comments** |
| MailerID6 | mailID6Type simple type | | Not required (attribute)Either MailerID6 or MailerID9 can be provided, not both | Refer to this simple type in Section 6 |


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| Complex Type: SubmittingParty, participantIDType | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Values** | **Business Rules** | **Comments** |
| MailerID9 | mailerID9Type | | Not required (attribute)Either MailerID6 or MailerID9 can be provided, not both | Refer to this simple type in Section 6 |
| CRID | CRIDType | | Not required (attribute), Either CRID or MID can be provided for authorization | Refer to this simple type in Section 6 |
| SchedulerID | String, 12 | | Optional | |
| MaildatUserLicense | userLicenseCodeTyp e simple type | | Optional | Refer to this simple type in Section 6 |
| ShippingAgentID | String 12 | - | Optional | - |
| ReceivingAgentID | String 12 | - | Optional | - |

## 5.36 Complex Type: SubmittingSoftware

| Complex Type: SubmittingSoftware | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Values** | **Business Rules** | **Comments** |
| SoftwareName | String | | Required | |
| Vendor | String | | Required | |
| Version | String | | Required | |
| ApprovalDate | Date | yyyy-mm-dd | Optional | Changed the type to ‘Date’ based on errata |
| ApprovalKey | String | | Optional | |

## 5.37 Complex Type: VerificationErrorType

| Complex Type: VerificationErrorType | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Value** | **Business Rules** | **Comments** |
| Sequence Block BEGINS | | | Optional0 to many allowed | |
| VerificationErrorCode | Numeric String 4 | | Required | |
| VerificationError Description | String 260 | | Optional | |
| Sequence Block ENDS | | | | |


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# 6. Mail.XML 12.0A Simple Types

The simple types below list variation of validation in Mail.XML for Mail.XML 12.0A.

## 6.1 simpleType: actionCodeType

| Tag | actionCodeType |
|---|---|
| Base | xs:string |
| enumeration | F = Forwarded |
| enumeration | W = Wasted |
| enumeration | R = Returned |
| enumeration | U = Unable to determine action |

## 6.2 simpleType: addressCorrectionMoveType

| Tag | addressCorrectionMoveType |
|---|---|
| Base | xs:string |
| enumeration | F = Family Move |
| enumeration | I = Individual Move |
| enumeration | B = Business Move |

## 6.3 simpleType: addressType

| Tag | addressType |
|---|---|
| Base | xs:string |
| enumeration | F = Foreign |
| enumeration | G = General Delivery |
| enumeration | H = Highway Route Contract |
| enumeration | P = Post Office Box |
| enumeration | R = Rural Route |
| enumeration | S = Street Address |
| enumeration | U = Urbanization Name |
| enumeration | V = Highway Contract Route with box number |
| enumeration | X = Rural Route with box number |

## 6.4 simpleType: additionalInHomeRangeType

| Tag | additionalInHomeRangeType |
|---|---|
| Base | mailxml_base:n01 |

## 6.5 simpleType: adjustmentStatusType

| Tag | adjustmentStatusType |
|---|---|
| Base | xs:string |
| enumeration | R = Ready to Pay |
| enumeration | X = Paid |
| enumeration | C = Cancel |
| enumeration | P = Preliminary Postage Statement |
| enumeration | T = Transportation |

## 6.6 simpleType: adjustmentType

| Tag | adjustmentType |
|---|---|
| Base | xs:string |
| enumeration | 1 = Re-order in excess of tolerance |
| enumeration | 2 = “Average Remail” Add-on |
| enumeration | 3 = Spoilage |
| enumeration | 4 = Shortage |


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## 6.7 simpleType: agencyCostCodeType

| Tag | agencyCostCodeType |
|---|---|
| Base | xs:string |
| pattern | [0-9]{5}\|[0-9]{6} |

## 6.8 simpleType: apptMethodType

| Tag | apptMethodType |
|---|---|
| Base | xs:string |
| enumeration | Online |
| enumeration | Phone |
| enumeration | Webservices - Detail |
| enumeration | Webservices - No Detail |

## 6.9 simpleType: apptStateType

| Tag | apptStateType |
|---|---|
| Base | xs:string |
| enumeration | Scheduled |
| enumeration | Arrived |
| enumeration | ApptValidated |
| enumeration | WaitingToBeUnloaded |
| enumeration | Unloading |
| enumeration | FinishedUnloading |
| enumeration | ResolvingProblems |
| enumeration | Rejected |
| enumeration | Closed |

## 6.10 simpleType: apptStatusType

| Tag | apptStateType |
|---|---|
| Base | xs:string |
| enumeration | Open |
| enumeration | Closed |
| enumeration | No Show |
| enumeration | Unscheduled |
| enumeration | Rejected |

## 6.11 simpleType: apptTypeType

| Tag | apptTypeType |
|---|---|
| Base | xs:string |
| enumeration | Pallet |
| enumeration | DropAndPick |
| enumeration | Speedline |
| enumeration | Bedload |

## 6.12 simpleType: barcodeRateType

| Tag | barcodeRateType |
|---|---|
| Base | xs:string |
| enumeration | Y = Yes |
| enumeration | N = No |
| enumeration | O = Other |

## 6.13 simpleType: billReasonCodeType

| Tag | billReasonCodeType |
|---|---|
| Base | xs:string |
| enumeration | E = Free period for the mailpiece has expired |


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| Tag | billReasonCodeType |
|---|---|
| enumeration | F = Mailpiece is not Full Service compliant. |
| enumeration | M |
| enumeration | N = Mailpiece is Unassociated but has a Full Service STID |

## 6.14 simpleType: bundleDetailLevelType

| Tag | bundleDetailLevelType |
|---|---|
| Base | xs:string |
| enumeration | A = Firm |
| enumeration | B = Carrier Route |
| enumeration | C = 5-Digit |
| enumeration | D = Unique 3-Digit |
| enumeration | E = (Reserve for future) |
| enumeration | F = 3-Digit |
| enumeration | G = (Reserve for future) |
| enumeration | H = ADC |
| enumeration | I = AADC |
| enumeration | J = (Reserve for future) |
| enumeration | K = Origin MxADC |
| enumeration | L = MxADC |
| enumeration | M = MxAADC |
| enumeration | N = (Reserve for future) |
| enumeration | O = Working |
| enumeration | P = (Reserve for future) |
| enumeration | Q = (Reserve for future) |
| enumeration | R = Parcel |
| enumeration | S = Multi-Piece Parcel |
| enumeration | T = 3D Scheme |
| enumeration | U = 5D Scheme + L007 |
| enumeration | V = NDC (previously as BMC) |
| enumeration | W = 5-Digit Super Scheme |
| enumeration | X = FSS Sort Plan |

## 6.15 simpleType: bundleRecordStatusType

| Tag | bundleRecordStatusType |
|---|---|
| Base | xs:string |
| enumeration | O = Original |
| enumeration | D = Delete |
| enumeration | I = Insert |
| enumeration | U = Update |

## 6.16 simpleType: bundleStatusType

| Tag | bundleStatusType |
|---|---|
| Base | xs:string |
| enumeration | Blank |
| enumeration | C = Cancel |

## 6.17 simpleType: canadaAdMailOnlyType

| Tag | canadaAdMailOnlyType |
|---|---|
| Base | xs:string |
| enumeration | ST = Standard |
| enumeration | LG = Large |


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## 6.18 simpleType: chargeableBundleLevelType

| Tag | chargeableBundleLevelType |
|---|---|
| Base | xs:string |
| enumeration | 3 = 3-Digit/SCF |
| enumeration | 5 = 5-Digit/Carrier Route |
| enumeration | A = ADC/AADC |
| enumeration | C = Carrier Route |
| enumeration | F = Firm |
| enumeration | M = Mixed ADC and Mixed AADC |

## 6.19 simpleType: chargeableContainerType

| Tag | chargeableContainerType |
|---|---|
| Base | xs:string |
| enumeration | Sacks-Trays |
| enumeration | Pallets |

## 6.20 simpleType: chargeableContainerLevelType

| Tag | chargeableContainerLevelType |
|---|---|
| Base | xs:string |
| enumeration | 3 = 3-Digit/SCF |
| enumeration | 5 = 5-Digit/Carrier Route |
| enumeration | A = ADC/AADC |
| enumeration | M = Mixed ADC & Mixed AADC |

## 6.21 simpleType: chargeableEntryLevelType

| Tag | chargeableEntryLevelType |
|---|---|
| Base | xs:string |
| enumeration | B = Destination NDC (Previously BMC) |
| enumeration | C = Origin SCF |
| enumeration | D = DDU |
| enumeration | J = Origin ADC |
| enumeration | K = Origin NDC (previously BMC) |
| enumeration | O = Origin Post Office/ DMU |
| enumeration | R = Destination ADC |
| enumeration | S = Destination SCF |

## 6.22 simpleType: characteristicContentType

| Tag | characteristicContentType |
|---|---|
| Base | xs:string |
| enumeration | CT = Catalog |
| enumeration | RR = Reply Envelope or Reply Card |
| enumeration | NF = Contents NOT required to be mailed FCM |
| enumeration | DC = DVD/CD or other disk |
| enumeration | PS = Product Sample |
| enumeration | RT = Round Trip ONLY: One DVD/CD or other disk (can be LT or FL) |
| enumeration | MI = Mobile Interactive Technology |
| enumeration | NP = PACT act |

## 6.23 simpleType: characteristicFeeType

| Tag | characteristicFeeType |
|---|---|
| Base | xs:string |
| enumeration | OS = Operational Surcharge |
| enumeration | GS = Geographic Surcharge |
| enumeration | PP = Picture Permit Indicia |


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| Tag | characteristicFeeType |
|---|---|
| enumeration | MT = Mailer Type |

## 6.24 simpleType: characteristicIncentiveType

| Tag | characteristicIncentiveType |
|---|---|
| Base | xs:string |
| enumeration | MT = Mailer Type |
| enumeration | VV = Volume w/% off |
| enumeration | VP = Volume w/price off |
| enumeration | SB = Small Bus w/% off |
| enumeration | RE = Revenue |
| enumeration | RE = Revenue |
| enumeration | PI = Piece Count |
| enumeration | SB = Small Bus w/% off |

## 6.25 simpleType: classNotificationType

| Tag | classNotificationType |
|---|---|
| Base | xs:string |
| enumeration | A = (Reserved for future use) |
| enumeration | B = First-Class Mail |
| enumeration | C = Periodicals, Initial Notification |
| enumeration | D = Standard Mail |
| enumeration | E = Package Services |
| enumeration | F = Periodicals, Follow-up Notifications |

## 6.26 simpleType: closeoutIrregularitiesType

| Tag | closeoutIrregularitiesType |
|---|---|
| Base | xs:string |
| enumeration | B = Broken Pallet |
| enumeration | C = Count don't Match 8125 |
| enumeration | D = Damaged Mail |
| enumeration | DR = Driver Refused to Assist |
| enumeration | G = Good |
| enumeration | IA = Improper Appointment Type |
| enumeration | IM = Improper Mail Class |
| enumeration | I = Improper Mail Makeup |
| enumeration | IF = Incorrect Mail Facility |
| enumeration | L = Load Unsafe |
| enumeration | M = Mailing not separated by 8125 |
| enumeration | MI = Miscellaneous |
| enumeration | NP = No Paperwork (Missing Paperwork) |
| enumeration | O = Others |
| enumeration | OW = Overweight Pallets |
| enumeration | NM = Package on NDC non-machinable |
| enumeration | P = Pallet Too Tall |
| enumeration | VS = Vehicle Size |
| enumeration | CP = Courtesy Pallets |
| enumeration | CM = Container does not match 8017 |
| enumeration | SM = Separation does not match 8107 |
| enumeration | AR = Altered Required Field on Form |
| enumeration | IO = Incorrect Entry Office |
| enumeration | MN = Missing Appointment Number |
| enumeration | MS = Missing Origin Signature and/or Round Stamp |
| enumeration | MF = Missing Required Mailer Field on Form |
| enumeration | MA = Multiple Appts Associated to Load |
| enumeration | NF = No Form with Shipment |


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| Tag | closeoutIrregularitiesType |
|---|---|
| enumeration | IP = Incorrect Processing Category |
| enumeration | PD = Past in Home Date |

## 6.27 simpleType: closeoutResolutionType

| Tag | closeoutResolutionType |
|---|---|
| Base | xs:string |
| enumeration | DCD = Driver Contracted Dispatch Office |
| enumeration | DCO = Destination Contacted Origin |
| enumeration | DRL = Driver Reconciled Load |
| enumeration | INR = Irregularities Count Not be Resolved on Dock |

## 6.28 simpleType: communicationRoleType

| Tag | communicationRoleType |
|---|---|
| Base | xs:string |
| enumeration | From |
| enumeration | To |
| enumeration | CC |

## 6.29 simpleType: componentWeightSourceType

| Tag | componentWeightSourceType |
|---|---|
| Base | String |
| enumeration | A = Agent (real-time), |
| enumeration | C = Calculated (formula) |
| enumeration | P = Postal (clerk), |
| enumeration | L = Logical (implied from rate) |

## 6.30 simpleType: componentWeightStatusType

| Tag | componentWeightStatusType |
|---|---|
| Base | String |
| enumeration | N = None Given, |
| enumeration | P = Pending |
| enumeration | F = Final |
| enumeration | M = Manifest Weight as function of Rate Interval (not actual) |

## 6.31 simpleType: consigneeContentIDType

| Tag | consigneeContentIDType |
|---|---|
| Base | mailxml_base:s09 |

## 6.32 simpleType: containerBundleStatusType

| Tag | containerBundleStatusType |
|---|---|
| Base | xs:string |
| enumeration | -1 = Failed |
| enumeration | 0 = Pending |
| enumeration | 1 = Success |

## 6.33 simpleType: containerAcceptanceDateType

| Tag | containerAcceptanceDateType |
|---|---|
| Base | xs:date |

## 6.34 simpleType: cccLevelType

| Tag | cccLevelType |
|---|---|
| Base | xs:string |


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| Tag | cccLevelType |
|---|---|
| enumeration | 3 = 3-Digit/SCF |
| enumeration | 5 = 5-Digit/Carrier Route |
| enumeration | A = ADC/AADC |
| enumeration | M = Mixed ADC & Mixed AADC |

## 6.35 simpleType: contactType

| Tag | contactType |
|---|---|
| Base | xs:string |
| enumeration | AccountManager |
| enumeration | Carrier |
| enumeration | CrossDock |
| enumeration | CustomerService |
| enumeration | HelpDesk |
| enumeration | DropShipCoordinator |
| enumeration | ApptCoordinator |
| enumeration | Plant |
| enumeration | InboundFreightCoordinator |
| enumeration | SalesOffice |
| enumeration | TruckDriver |
| enumeration | Warehouse |
| enumeration | Other |

## 6.36 simpleType: containerGrossWeightType

| Tag | containerGrossWeightType |
|---|---|
| Base | mailxml_base:s05 |

## 6.37 simpleType: containerHeightType

| Tag | containerHeightType |
|---|---|
| Base | mailxml_base:n03 |

## 6.38 simpleType: containerLevelType

| Tag | containerLevelType |
|---|---|
| Base | xs:string |
| enumeration | A = CR-DirectEligibility Type = S, T, P |
| enumeration | B = Mixed CR in 5-DigitEligibility Type = S, T, P |
| enumeration | C = Mixed CR in 3-DigitEligibility Type = S, T |
| enumeration | D = CR – 5D SchemeEligibility Type = S, T, P |
| enumeration | E = FSS Scheme |
| enumeration | F = FSS Facility |
| enumeration | G = 5 Digit (Auto/Presort)Eligibility Type = S, T, P |
| enumeration | H = 5 Digit (Merged)Eligibility Type = S, T, P |
| enumeration | I = 5 Digit (Presort Only)Eligibility Type = S, T, P |
| enumeration | J = 5 Digit (Barcode Only)Eligibility Type = S, T, P |
| enumeration | K = Metro SchemeEligibility Type = P |
| enumeration | M = 5D Scheme (Presort)Eligibility Type = S, T, P |
| enumeration | N = 5D Scheme (Auto/Presort)Eligibility Type = S, T, P |
| enumeration | P = 5D Scheme (Barcode)Eligibility Type = S, T, P |
| enumeration | Q = 5D Scheme (Merged)Eligibility Type = S, T, P |
| enumeration | R = 3 Digit (Auto, Presort)Eligibility Type = S, T |
| enumeration | S = 3 Digit (Barcode)Eligibility Type = S, T |
| enumeration | T = 3 Digit (Presort)Eligibility Type = S, T |
| enumeration | U = 3 Digit (CR, Auto, Presort)Eligibility Type = S, T, P |
| enumeration | V = 3 Digit SchemeEligibility Type = T |
| enumeration | W = Deleted – Place Holder |


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| Tag | containerLevelType |
|---|---|
| enumeration | X = SCFEligibility Type = S, P |
| enumeration | Y = Protected SCFEligibility Type = P |
| enumeration | Z = ADCEligibility Type = S, T, P |
| enumeration | AA = AADCEligibility Type = T |
| enumeration | AB = Mixed ADCEligibility Type = S, T, P |
| enumeration | AC = Mixed AADCEligibility Type = T |
| enumeration | AD = ASFEligibility Type = S, P |
| enumeration | AE = NDC (previously known as BMC)Eligibility Type = S, P |
| enumeration | AF = Protected NDC Eligibility Type = P |
| enumeration | AG = Mixed NDC Eligibility Type = S, P |
| enumeration | AH = Origin MxADC |
| enumeration | AI = Protected ADC |
| enumeration | AJ = Single Piece ContainerEligibility Type = S, T |
| enumeration | AK = MXDS – Mixed SurfaceEligibility Type = P |
| enumeration | AL = MXDA – Mixed Air CSA FCM Only |
| enumeration | AM = WorkingEligibility Type = P |
| enumeration | AN = Single Piece – First ClassEligibility Type = P |
| enumeration | AO = SurfaceEligibility Type = P |
| enumeration | AP = AirEligibility Type = P |
| enumeration | AQ = LocalEligibility Type = P |
| enumeration | AR = Origin SCF |
| enumeration | AS = Origin Mixed ADC Surface |
| enumeration | AT = Mixed ADC Air |
| enumeration | BA = Urban DirectEligibility Type = S, T |
| enumeration | BB = Rural DirectEligibility Type = S, T |
| enumeration | BC = StationEligibility Type = S, T, P |
| enumeration | BD = CityEligibility Type = S, T, P |
| enumeration | BE = FSAEligibility Type = P |
| enumeration | BF = DCFEligibility Type = S, T, P |
| enumeration | BG = FCPEligibility Type = S, T, P |
| enumeration | BH = ProvinceEligibility Type = P |
| enumeration | BI = ResidualEligibility Type = S, T, P |
| enumeration | BJ = ForeignEligibility Type = S, T, P |
| enumeration | BK = CountryEligibility Type = S, T, P |
| enumeration | BL = Mixed CountryEligibility Type = S, T, P |
| enumeration | BM = M BagsEligibility Type = S |

## 6.39 simpleType: containerPickupDateType

| Tag | containerPickupDateType |
|---|---|
| **Base** | **xs:date** |

## 6.40 simpleType: containerPickupTimeType

| Tag | containerPickupTimeType |
|---|---|
| Base | xs:time |

## 6.41 simpleType: containerScanStateType

| Tag | containerScanStateType |
|---|---|
| Base | xs:string |
| enumeration | Electronic Information Received |
| enumeration | Entered at USPS |
| enumeration | Enroute Depart |
| enumeration | Enroute |
| enumeration | Enroute Arrive |
| enumeration | All Scan States |


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## 6.42 simpleType: containerShipDateType

| Tag | containerShipDateType |
|---|---|
| Base | xs:date |

## 6.43 simpleType: containerShipTimeType

| Tag | containerShipTimeType |
|---|---|
| Base | xs:time |

## 6.44 simpleType: containerStatusType

| Tag | containerStatusType |
|---|---|
| Base | xs:string |
| enumeration | Accepted |
| enumeration | OnHold |
| enumeration | Rejected |

## 6.45 simpleType: containerHeightSourceType

| Tag | containerHeightSourceType |
|---|---|
| Base | xs:string |
| enumeration | A = Actual |
| enumeration | E = Estimated |

## 6.46 simpleType: CQTdatabaseIDType

| Tag | CQTdatabaseIDType |
|---|---|
| Base | xs:nonNegativeInteger |
| totalDigits | 8 |
| whiteSpace | collapse |

## 6.47 simpleType: creditDebitIndicator

| Tag | creditDebitIndicator |
|---|---|
| Base | xs:string |
| enumeration | C = Credit |
| enumeration | D = Debit |

## 6.48 simpleType: CRIDType

| Tag | CRIDType |
|---|---|
| Base | xs:string |
| maxLength | 15 |
| minLength | 1 |
| pattern | ([0-9])* |

## 6.49 simpleType: cRIDStatusType

| Tag | cRIDStatusType |
|---|---|
| Base | xs:string |
| enumeration | New |
| enumeration | Existing |

## 6.50 simpleType: csaTemplateType

| Tag | csaTemplateType |
|---|---|
| Base | xs:string |
| enumeration | PVDS-PER |
| enumeration | DMU-C |


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| Tag | csaTemplateType |
|---|---|
| enumeration | DMU-P |
| enumeration | BMEU |
| enumeration | UPVDS-PER |
| enumeration | UDMU-C |
| enumeration | UDMU-P |
| enumeration | UBMEU |
| enumeration | U |

## 6.51 simpleType: csaStatusType

| Tag | csaStatusType |
|---|---|
| Base | xs:string |
| enumeration | ACT |
| enumeration | PEN |
| enumeration | INACT |
| enumeration | INCOMP |
| enumeration | PREAPP |

## 6.52 simpleType: databaseContainerIDType

| Tag | databaseContainerIDType |
|---|---|
| Base | xs:nonNegativeInteger |
| totalDigits | 6 |

## 6.53 simpleType: dayFrequencyType

| Tag | dayFrequencyType |
|---|---|
| Base | xs:string |
| enumeration | Daily |
| enumeration | Monday |
| enumeration | Tuesday |
| enumeration | Wednesday |
| enumeration | Thursday |
| enumeration | Friday |
| enumeration | Saturday |
| enumeration | Sunday |

## 6.54 simpleType: daysOfWeekType

| Tag | daysOfWeekType |
|---|---|
| Base | xs:string |
| enumeration | MON |
| enumeration | TUE |
| enumeration | WED |
| enumeration | THU |
| enumeration | FRI |
| enumeration | SAT |
| enumeration | SUN |
| enumeration | MF |
| enumeration | MS |
| enumeration | ALL |
| enumeration | H |

## 6.55 simpleType: DirectOrMixedCategoryType

| Tag | DirectOrMixedCategoryType |
|---|---|
| Base | String |
| enumeration | Direct |
| enumeration | Mixed |


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| Tag | DirectOrMixedCategoryType |
|---|---|
| fractionDigits | |

## 6.56 simpleType: dec18-8

| Tag | dec18-8 |
|---|---|
| Base | xs:decimal |
| totalDigits | 18 |
| fractionDigits | 8 |

## 6.57 simpleType: deliverabilityCodeType

| Tag | deliverabilityCodeType |
|---|---|
| Base | xs:string |
| enumeration | K = COA Match, No Forwarding Address |
| enumeration | G = COA Match, PO Box Closed, No Forwarding Address |
| enumeration | W = COA Match with a temporary COA |

## 6.58 simpleType: DMLTypeType

| Tag | DMLTypeType |
|---|---|
| Base | xs:string |
| enumeration | A = Detached Address Label |
| enumeration | B = Detached Marketing Label |

## 6.59 simpleType: electronicFileType

| Tag | electronicFileType |
|---|---|
| Base | String 1 |
| enumeration | 1=Postage & Tracking File |
| enumeration | 2=Tracking File |
| enumeration | 3=Return Service |
| enumeration | 4=Corrections |
| enumeration | 5=Electronic Verification |
| enumeration | C=Parcel Return Service |

## 6.60 simpleType: emailType

| Tag | emailType |
|---|---|
| Base | xs:string |

## 6.61 simpleType: enclosedByType

| Tag | enclosedByType |
|---|---|
| Base | xs:string |
| enumeration | SM = Standard Mail |
| enumeration | BP = Bound Printed Matter |
| enumeration | PE = Periodicals |
| enumeration | PP = Parcel Post |
| enumeration | ML = Media/Library Mail |


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## 6.62 simpleType: entryDiscountType

| Tag | entryDiscountType |
|---|---|
| Base | xs:string |
| enumeration | N = None |
| enumeration | B = DNDC (previous DBMC) |
| enumeration | S = DSCF |
| enumeration | D = DDU |
| enumeration | A = DADC |
| enumeration | C = Origin SCF |
| enumeration | K = Origin NDC |

## 6.63 simpleType: entryFacilityType

| Tag | entryFacilityType |
|---|---|
| Base | xs:string |
| enumeration | O = Origin |
| enumeration | B = NDC (Previous BMC) |
| enumeration | S = SCF |
| enumeration | D = DDU |
| enumeration | A = ADC |

## 6.64 simpleType: entryPointEDPostalCodeType

| Tag | entryPointEDPostalCodeType |
|---|---|
| Base | mailxml_base:s06 |

## 6.65 simpleType: entryPointEDFacilityTypeType

| Tag | entryPointEDFacilityTypeType |
|---|---|
| Base | mailxml_base:s01 |

## 6.66 simpleType: entryPointADLocaleKeyType

| Tag | entryPointADLocaleKeyType |
|---|---|
| Base | mailxml_base:s09 |

## 6.67 simpleType: entryPointADPostalCodeType

| Tag | entryPointADPostalCodeType |
|---|---|
| Base | mailxml_base:s09 |

## 6.68 simpleType: es3

| Tag | es3 |
|---|---|
| Base | xs:string |
| maxLength | 3 |
| minLength | 3 |
| whiteSpace | preserve |

## 6.69 simpleType: es4

| Tag | es4 |
|---|---|


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| Tag | es4 |
|---|---|
| Base | xs:string |
| maxLength | 4 |
| minLength | 4 |
| whiteSpace | preserve |

## 6.70 simpleType: es5

| Tag | es5 |
|---|---|
| Base | xs:string |
| maxLength | 5 |
| minLength | 5 |
| whiteSpace | preserve |

## 6.71 simpleType: exemptionCodeType

| Tag | exemptionCodeType |
|---|---|
| Base | xs:string |
| enumeration | APO = All Periodicals |
| enumeration | APS = All Perishable |
| enumeration | CAPC = Cancelled within two hours |
| enumeration | DUE = Delivery Unit Exemption |
| enumeration | HC = Holiday Contingency Constraint Change |

## 6.72 simpleType: fASTSchedulerIDType

| Tag | fASTSchedulerIDType |
|---|---|
| Base | mailxml_base:s12 |

## 6.73 simpleType: feeNotificationType

| Tag | feeNotificationType |
|---|---|
| Base | String |
| enumeration | E = Electronic Fee Charged |
| enumeration | 1 = Automated Fee 1st Notice |
| enumeration | 2 = Automated Fee 2nd Notice |
| enumeration | 3 = Automated Fee Charged for 3 or more notices |

## 6.74 simpleType: flatRateIndicatorType

| Tag | flatRateIndicatorType |
|---|---|
| Base | xs:string |
| enumeration | B = Box – Priority Mail Flat Rate Only |
| enumeration | C = Priority Mail Critical Mail – Letter |
| enumeration | E = Envelope – Priority Mail Flat Rate Only |
| enumeration | F = Priority Mail Critical Mail – Flat |
| enumeration | L = Box – Large Priority Mail Flat Rate Only |
| enumeration | M = Box – Large Military Destination Priority Mail Flat Rate Only |
| enumeration | O = Priority Mail Padded Flat Rate Envelope |
| enumeration | P = Priority Mail Legal Flat Rate Envelope |
| enumeration | S = Small – Priority Mail Flat Rate Only |

## 6.75 simpleType: formType

| Tag | formType |
|---|---|
| Base | xs:string |
| enumeration | PM = Priority Mail |
| enumeration | FC = First-Class |
| enumeration | SM = Standard Mail |
| enumeration | BP = Bound Printed Matters |


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| Tag | formType |
|---|---|
| enumeration | PE = Periodicals |
| enumeration | PP = Parcel Post |
| enumeration | ML = Media/Library Mail |
| enumeration | IM = International Mailing |

## 6.76 simpleType: fullServiceComplianceIndicatorType

| Tag | fullServiceComplianceIndicatorType |
|---|---|
| Base | mailxml_base:yesNo |

## 6.77 simpleType: fspiType

| Tag | fspiType |
|---|---|
| Base | xs:string |
| enumeration | M = Mixed |
| enumeration | F = Full-Service |

## 6.78 simpleType: gPSSystemType

| Tag | gPSSystemType |
|---|---|
| Base | xs:string |
| enumeration | ECEF |
| enumeration | HAE |
| enumeration | MSL |

## 6.79 simpleType: IDType

| Tag | IDType |
|---|---|
| Base | xs:string |
| enumeration | DriversLicense |
| enumeration | EmployeeID |

## 6.80 simpleType: iMBType

| Tag | iMBType |
|---|---|
| Base | xs:string |
| maxLength | 34 |
| minLength | 20 |
| pattern | ([0-9])+ |

## 6.81 simpleType: IMcbType

| Tag | IMcbType |
|---|---|
| Base | xs:string |
| maxLength | 24 |
| minLength | 21 |

## 6.82 simpleType: IMpbType

| Tag | IMpbType |
|---|---|
| Base | String |
| maxLength | 34 |
| minLength | 34 |

## 6.83 simpleType: iMBarcodeIDType

| Tag | iMBarcodeIDType |
|---|---|
| Base | mailxml_base:ns02 |


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## 6.84 simpleType: iMBSerialNumber6Type

| Tag | iMBSerialNumber6Type |
|---|---|
| Base | mailxml_base:ns06 |

## 6.85 simpleType: iMBSerialNumber9Type

| Tag | iMBSerialNumber9Type |
|---|---|
| Base | mailxml_base:ns09 |

## 6.86 simpleType: iMBUpperSerializationType

| Tag | iMBUpperSerializationType |
|---|---|
| Base | mailxml_base:s18 |

## 6.87 simpleType: iMBLowerSerializationType

| Tag | iMBLowerSerializationType |
|---|---|
| Base | mailxml_base:s18 |

## 6.88 simpleType: IMtbType

| Tag | IMtbType |
|---|---|
| Base | String |
| maxLength | 24 |
| minLength | 24 |

## 6.89 simpleType: includedInOtherDocType

| Tag | includedInOtherDocType |
|---|---|
| Base | xs:string |
| enumeration | L = Linked or new container |
| enumeration | O = Original Container |
| enumeration | I = Internal co-palletization indicatorfrom the Origin Job - Original Container |

## 6.90 simpleType: inCountyOutCountyIndicatorType

| Tag | inCountyOutCountyIndicatorType |
|---|---|
| Base | xs:string |
| enumeration | I – In County |
| enumeration | N = Outside County |

## 6.91 simpleType: inductionStatusType

| Tag | inductionStatusType |
|---|---|
| Base | xs:string |
| enumeration | A = Accepted |
| enumeration | N = Rejected |

## 6.92 simpleType: internalDateType

| Tag | internalDateType |
|---|---|
| Base | xs:date |

## 6.93 simpleType: internationalPSPartType

| Tag | internationalPSPartType |
|---|---|
| Base | String |
| enumeration | A = First Class ail International Permit Imprint |
| enumeration | B = International Surface Airlift – ISAL |
| enumeration | C = International Priority Airmail – IPA |
| enumeration | D = Priority Mail International Permit Imprint |


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| Tag | internationalPSPartType |
|---|---|
| enumeration | E = Global Shipping Software (GSS) Permit Imprint – Priority Mail International |
| enumeration | F = Global Shipping Software Permit Imprint – Express Mail International |
| enumeration | G = Global Shipping Software Permit Imprint – Global Express Guaranteed |
| enumeration | H = Global Bulk Economy Mail Permit Imprint |
| enumeration | I = Global Direct Canada Admail Permit Imprint |
| enumeration | J = Global Direct Canada Publication Mail – Permit Imprint |
| enumeration | K = Global Direct Canada Letter Mail – Permit Imprint |
| enumeration | Q = Global Direct Permit Imprint |
| enumeration | R = Reserved |
| enumeration | S = Extra Services |

## 6.94 simpleType: internationalZoneType

| Tag | internationalZoneType |
|---|---|
| Base | String |
| enumeration | 1 through 15 |

## 6.95 simpleType: internationalPSPartSectionType

| Tag | internationalPSPartSectionType |
|---|---|
| enumeration | ICLM = Canada Incentive Letter Mail Standard (S/L) – Machinable |
| enumeration | ICLO = Canada Letter Mail Other (Non-Standard and Oversize) |
| enumeration | ICLP = Canada Incentive Letter Mail Standard (S/L) – Presort |
| enumeration | ICLPL = Canada Incentive Letter Mail Standard (S/L) – Presort Local |
| enumeration | ICLS = Canada Letter Mail Standard (S/L) |
| enumeration | ICOM = Canada Incentive Letter Mail Oversize (O/S) – Machinable |
| enumeration | ICOP = Canada Incentive Letter Mail Oversize (O/S) – Presort |
| enumeration | IEM = Express Mail International |
| enumeration | IEMF = Express Mail International Flat Rate Envelope |
| enumeration | IFCP = LCP Residual/Forward Consolidation Point (FCP) |
| enumeration | IFE = Flat Rate Envelope (Individual Weight Limit: 4 lbs) |
| enumeration | IFLB = Large Flat Rate Box (Individual Weight Limit: 20 lbs) |
| enumeration | IFMB = Medium Flat Rate Box (Individual Weight Limit: 20 lbs) |
| enumeration | IFSB = Small Flat Rate Box (Individual Weight Limit: 4 lbs) |
| enumeration | IGBB = Global Bulk Economy Mail-Base Price-New Jersey Entry |
| enumeration | IGBM = Global Bulk Economy Mail M-Bag New Jersey Entry |
| enumeration | IGD = Global Direct |
| enumeration | IGXG = Global Express Guaranteed (GXG) |
| enumeration | ILDC = LCP Distribution Center Facility |
| enumeration | ILDD = LCP Delivery Mode Direct |
| enumeration | ILDF = LCP Delivery Facility |
| enumeration | IMBG = M-Bag Airmail Sacks |
| enumeration | INDG = NDG Presort |
| enumeration | IPM = Priority Mail International |
| enumeration | IPMI = International Priority Mail IPA |
| enumeration | IPMM = International Priority Mail M-Bag IPA |
| enumeration | IRV = Reserved |
| enumeration | ISAL = International Surface Airlift – ISAL |
| enumeration | ISAM = International Surface Airlift M-Bag – ISAL |

## 6.96 simpleType: internationalPriceGroupType

| Tag | internationalPriceGroupType |
|---|---|
| Base | String |
| enumeration | 1 = Canada |
| enumeration | 2 = Mexico |
| enumeration | 3 through 5 = China, Eastern Europe, Hong Kong, Japan, South Korea, Turkey, Western Europe |
| enumeration | 6 through 9 = Africa, Asia (exception include price group 3 through 5), central America, Middle East, |


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| Tag | internationalPriceGroupType |
|---|---|
| | South America |
| enumeration | 10 through 15 = Unknown – for future use |

## 6.97 simpleType: jobIDType

| Tag | jobIDType |
|---|---|
| Base | xs:string |
| maxLength | 8 |
| minLength | 1 |
| whiteSpace | Preserve |

## 6.98 simpleType: localeKeyType

| Tag | localeKeyType |
|---|---|
| Base | mailxml_base:s09 |

## 6.99 simpleType: logicalPhysicalBundleIndicatorType

| Tag | logicalPhysicalBundleIndicatorType |
|---|---|
| Base | xs:string |
| enumeration | P = Physical |
| enumeration | L = Logical |

## 6.100 simpleType: logicalPhysicalContainerIndicatorType

| Tag | logicalPhysicalContainerIndicatorType |
|---|---|
| Base | xs:string |
| enumeration | P = Physical |
| enumeration | L = Logical |

## 6.101 simpleType: LowerDateRange

| Tag | LowerDateRange |
|---|---|
| Base | xs:date |

## 6.102 simpleType: mailAgreementTypeType

| Tag | mailAgreementTypeType |
|---|---|
| Base | xs:string |
| enumeration | A = Alternate Mailing System |
| enumeration | B = Optional Procedure |
| enumeration | C = Manifest Mailing |
| enumeration | D = Value Added |
| enumeration | E = Combined Mail |
| enumeration | F = Combined and Value Added |

## 6.103 simpleType: mailClassType

| Tag | mailClassType |
|---|---|
| Base | xs:string |
| enumeration | 1 = First-Class Mail |
| enumeration | 2 = Periodicals |
| enumeration | 3 = Standard Mail |
| enumeration | 4 = Package Services |
| enumeration | 6 = (Future Placeholder) |

## 6.104 simpleType: maildatContainerStatusType

| Tag | maildatContainerStatusType |
|---|---|
| Base | xs:string |


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| Tag | maildatContainerStatusType |
|---|---|
| enumeration | R = Ready to Pay |
| enumeration | X = Paid |
| enumeration | C = Cancel |
| enumeration | D = Delete |
| enumeration | P = Preliminary Postage Statement |
| enumeration | T = Transportation Information Update |

## 6.105 simpleType: mailerID6Type

| Tag | mailerID6Type |
|---|---|
| Base | mailxml_base:ns06 |

## 6.106 simpleType: mailerID9Type

| Tag | mailerID9Type |
|---|---|
| Base | mailxml_base:ns09 |

## 6.107 simpleType: MailPieceScanAvailabilityDate

| Tag | MailPieceScanAvailabilityDate |
|---|---|
| Base | xs:date |

## 6.108 simpleType: MailPieceScanRecordCount

| Tag | MailPieceScanRecordCount |
|---|---|
| Base | xs:nonNegativeInteger |

## 6.109 simpleType: mailXMLContainerType

| Tag | mailXMLContainerType |
|---|---|
| Base | xs:string |
| enumeration | 1 = #1 Sack |
| enumeration | 2 = #2 Sack |
| enumeration | 3 = #3 Sack |
| enumeration | 4 = 01V Sack |
| enumeration | 5 = 03V Sack |
| enumeration | 6 = OD Sack |
| enumeration | 7 = OD Parcel |
| enumeration | 8 = OD Full Tray Box |
| enumeration | 9 = OD Half Tray Box |
| enumeration | 10 = Flat Trays |
| enumeration | 11 = FRE/FRB |
| enumeration | 12 = OD Surface Transported Pallets |
| enumeration | 13 = OD Full Pallet Box (Surface Only) |
| enumeration | 14 = OD Half Pallet Box (Surface Only) |
| enumeration | E = EMM Tray |
| enumeration | F = Flat Tub |
| enumeration | L = Logical Tray |
| enumeration | O = 1’ Tray |
| enumeration | P = Pallet |
| enumeration | S = Sack (General) |
| enumeration | T = 2’ Tray |
| enumeration | V = Sack (Virtual) |
| enumeration | B = Bedload |
| enumeration | U – Unit Load Device |
| enumeration | Z = User Pallet |
| enumeration | X = (Future Placeholder) |
| enumeration | H = EIRS 61 – Hamper, Large Canvas |


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| Tag | mailXMLContainerType |
|---|---|
| enumeration | A = EIRS 61P – Hamper, Large Plastic |
| enumeration | G = EIRS 66 – General Purpose Mail Container w/Gate |
| enumeration | D = EIRS 68 – Eastern Region Mail Container w/Web Door |
| enumeration | R = EIRS 84 – Wire Container Rigid |
| enumeration | C = EIRS 84C – Collapsible Wire Container |
| enumeration | M = Logical Pallet (MLOCR) |
| enumeration | *AB = Air Box:*<br>*Note: For Mail.XML 12.0A when this value is provided –*<br>*the PostalOne! system will reject the message with appropriate message.* |
| enumeration | Y = PMOD Sack |

## 6.110 simpleType: mailXMLPresentationCategoryType

| Tag | mailXMLPresentationCategoryType |
|---|---|
| Base | xs:string |
| enumeration | M = MLOCR |
| enumeration | P = Conventional Presort |
| enumeration | I = Manifest Individual |
| enumeration | N = Single Piece |
| enumeration | S = Manifest Summary |

## 6.111 simpleType: manifestType

| Tag | manifestType |
|---|---|
| enumeration | DM = Domestic Mail |
| enumeration | IM = International Mail |

## 6.112 simpleType: manifestMailClassType

| Tag | manifestMailClassType |
|---|---|
| enumeration | BB = Bound Printed Material |
| enumeration | BL = Library Rate |
| enumeration | BP = Parcel Post |
| enumeration | BS = Media Mail |
| enumeration | CP = Priority Mail International Parcels |
| enumeration | DM = Domestic Matter for the Blind |
| enumeration | EX = Express Mail® |
| enumeration | FC = First Class Mail® |
| enumeration | IE = Express Mail International |
| enumeration | IL = Priority Mail International Letters |
| enumeration | LC = First Class Mail International |
| enumeration | PG = Global Express Guaranteed |
| enumeration | PM = Priority Mail |
| enumeration | S2 = Standard Mail Non-Profit |
| enumeration | S3 = Standard Mail Enhanced Carrier Route |
| enumeration | S4 = Standard Mail Nonprofit Enhanced Carrier Route |
| enumeration | SA = Standard Mail |

## 6.113 simpleType: manifestRateLevelType

| Tag | manifestRateLevelType |
|---|---|
| enumeration | AD = "ADC  Rate” |
| enumeration | BA = "Basic Rate" |
| enumeration | BM = "Balloon Rate" |
| enumeration | BP = "Basic Bound Printed Matter Pre-bar coded" |
| enumeration | BS = "NDC Special Standard" |


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| Tag | manifestRateLevelType |
|---|---|
| enumeration | B3 = "3-Digit Balloon Rate" |
| enumeration | CB = "Carrier Route Basic Rate" |
| enumeration | CD = "Express Mail Custom Design" |
| enumeration | CH = "Carrier Route High Density Rate" |
| enumeration | CR = "Carrier Route Rate" |
| enumeration | CS = "Carrier Route Saturation Rate" |
| enumeration | C1 = "Cubic Pricing Tier 1" |
| enumeration | C2 = "Cubic Pricing Tier 2" |
| enumeration | C3 = "Cubic Pricing Tier 3" |
| enumeration | C4 = "Cubic Pricing Tier 4" |
| enumeration | C5 = "Cubic Pricing Tier 5" |
| enumeration | DN = "Dimensional Nonrectangular Rate" |
| enumeration | DR = "Dimensional Rectangular Rate" |
| enumeration | E1 = "Express Mail Same Day Airport Flat Rate" |
| enumeration | E3 = "Express Mail Flat Rate Hold For Pickup" |
| enumeration | E4 = "Express Mail Flat Rate Post Office To Addressee" |
| enumeration | FB = "Priority Mail Medium Flat Rate Box" |
| enumeration | FE = "Flat Rate Envelope" |
| enumeration | IG = "P/PS<15Lbs, combined length/girth >84" & <= 108" subject to balloon rate" |
| enumeration | IM = "P/ PS between 108" and 130" subject to oversize rate" |
| enumeration | MA = "Mixed ADC Rate" |
| enumeration | MB = "Mixed NDC Rate" |
| enumeration | NP = "Non-presorted Rate" |
| enumeration | OS = "Oversize" |
| enumeration | PG = "PM<15lbs combined length/girth >84" & <=108" subject to balloon rate" |
| enumeration | PL = "Priority Mail Large Flat Rate Box" |
| enumeration | PM = "Priority Mail Large Flat Rate Box APO/FPO" |
| enumeration | PP = "Express Mail Hold For Pickup" |
| enumeration | PR = "Presorted Rate" |
| enumeration | RB = "Bulk Basic" |
| enumeration | SB = "Media Mail NDC" |
| enumeration | SP = "Single Piece Rate" |
| enumeration | S1 = "Single Piece – Flat" |
| enumeration | S2 = "Single Piece – Parcel" |
| enumeration | S5 = "Media Mail 5 Digit" |
| enumeration | 1A = "Intra-NDC Single Piece Rate" |
| enumeration | 1E = "Inter-NDC Single Piece Rate" |
| enumeration | 2A = "Intra-NDC Balloon Rate" |
| enumeration | 2E = "Inter-NDC Balloon Rate" |
| enumeration | 3A = "Intra-NDC Oversized Rate" |
| enumeration | 3D = "3-Digit Rate" |
| enumeration | 3E = "Inter-NDC Oversized Rate" |
| enumeration | 5D = "5 Digit Rate" |
| enumeration | 5S = "5 Digit Special Standard" |

## 6.114 simpleType: manifestExtraServiceCode

| Tag | manifestExtraServiceCode |
|---|---|
| enumeration | 420 = Parcel Return Service |
| enumeration | 430 = Open & Distribute |
| enumeration | 440 = Re Shipment |
| enumeration | 910 = Certified Mail |
| enumeration | 915 = COD |
| enumeration | 920 = Delivery Confirmation |
| enumeration | 921 = Signature Confirmation |
| enumeration | 925 = Express Mail Merchandise Insurance |
| enumeration | 930 = Insurance <=$200 |


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| Tag | manifestExtraServiceCode |
|---|---|
| enumeration | 931 = Insurance >$200 |
| enumeration | 935 = Parcel Airlift (PAL) |
| enumeration | 940 = Registered Mail |
| enumeration | 950 = Restricted Delivery |
| enumeration | 955 = Return Receipt |
| enumeration | 957 = Return Receipt Electronic |
| enumeration | 960 = Return Receipt for Merchandise |
| enumeration | 970 = Special Handling |
| enumeration | 980 = Merchandise Return Service (MRS) |
| enumeration | 985 = Hold for Pickup |

## 6.115 simpleType: MarketingOrFulfillmentType

| Tag | MarketingOrFulfillmentType |
|---|---|
| Base | xs:string |
| enumeration | Marketing |
| enumeration | Fulfillment |

## 6.116 simpleType: meteredAffixedMethodType

| Tag | meteredAffixedMethodType |
|---|---|
| Base | xs:string |
| enumeration | C = Metered – Correct |
| enumeration | L = Metered – Lowest |
| enumeration | M = Metered – Neither |

## 6.117 simpleType: MID6

| Tag | MID6 |
|---|---|
| Base | xs:mailerID6Type |

## 6.118 simpleType: MID9

| Tag | MID9 |
|---|---|
| Base | xs:mailerID6Type |

## 6.119 simpleType: mIDStatusType

| Tag | mIDStatusType |
|---|---|
| Base | xs:string |
| enumeration | New |
| enumeration | Existing |

## 6.120 simpleType: MLOCRRateType

| Tag | MLOCRRateType |
|---|---|
| Base | xs:string |
| enumeration | R |
| enumeration | N |

## 6.121 simpleType: monthType

| Tag | monthType |
|---|---|
| Base | xs:nonNegativeInteger |
| maxInclusive | 12 |
| minInclusive | 1 |

## 6.122 simpleType: moveUpdateMethodType

| Tag | moveUpdateMethodType |
|---|---|


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| Tag | moveUpdateMethodType |
|---|---|
| Base | xs:integer |
| enumeration | 0 = None |
| enumeration | 1 = ACS |
| enumeration | 2 = NCOA |
| enumeration | 3 = FAST Forward |
| enumeration | 4 = Mailer Move Update Process |
| enumeration | 5 = Ancillary Service Endorsement |
| enumeration | 6 = Multiple |
| enumeration | 7 = N/A |
| enumeration | 8 = OneCode ACS |

## 6.123 simpleType: MPSQueryType

| Tag | MPSQueryType |
|---|---|
| Base | xs:string |
| enumeration | A = All Detail |
| enumeration | S = Sample Detail |
| enumeration | SC = Scan Count |

## 6.124 simpleType: MPSStateType

| Tag | MPSStateType |
|---|---|
| Base | xs:string |
| enumeration | 1 |
| enumeration | 2 |
| enumeration | 3 |
| enumeration | 4 |
| enumeration | 5 |
| enumeration | 6 |
| enumeration | 7 |
| enumeration | 8 |
| enumeration | 9 |
| enumeration | 10 |
| enumeration | 11 |
| enumeration | 12 |
| enumeration | 13 |
| enumeration | 14 |
| enumeration | 15 |
| enumeration | 16 |
| enumeration | 17 |
| enumeration | 18 |
| enumeration | 19 |
| enumeration | 20 |
| enumeration | 21 |
| enumeration | 22 |
| enumeration | 23 |
| enumeration | 24 |
| enumeration | 25 |
| enumeration | 26 |
| enumeration | 27 |
| enumeration | 28 |
| enumeration | 29 |
| enumeration | 30 |

## 6.125 simpleType: MPUIDType

| Tag | MPUIDType |
|---|---|
| Base | xs:nonNegativeInteger |


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| Tag | MPUIDType |
|---|---|
| totalDigits | 5 |

### 6.126 simpleType: ns02

| Tag | ns02 |
|---|---|
| Base | xs:string |
| pattern | [0-9]{2} |

### 6.127 simpleType: ns03

| Tag | ns03 |
|---|---|
| Base | xs:string |
| pattern | [0-9]{3} |

### 6.128 simpleType: ns04

| Tag | ns04 |
|---|---|
| Base | xs:string |
| pattern | [0-9]{4} |

### 6.129 simpleType: ns05

| Tag | ns05 |
|---|---|
| Base | xs:string |
| pattern | [0-9]{5} |

### 6.130 simpleType: ns06

| Tag | ns06 |
|---|---|
| Base | xs:string |
| pattern | [0-9]{6} |

### 6.131 simpleType: ns09

| Tag | ns09 |
|---|---|
| Base | xs:string |
| pattern | [0-9]{9} |

### 6.132 simpleType: ns10

| Tag | ns10 |
|---|---|
| Base | xs:string |
| pattern | [0-9]{10} |

### 6.133 simpleType: ns11

| Tag | ns11 |
|---|---|
| Base | xs:string |
| pattern | [0-9]{11} |

### 6.134 simpleType: ns22

| Tag | ns22 |
|---|---|
| Base | xs:string |
| pattern | [0-9]{22} |

### 6.135 simpleType: n01

| Tag | n01 |
|---|---|
| Base | xs:positiveInteger |


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| Tag | n01 |
|---|---|
| totalDigits | 1 |

### 6.136 simpleType: n02

| Tag | n02 |
|---|---|
| Base | xs:positiveInteger |
| totalDigits | 2 |

### 6.137 simpleType: n03

| Tag | n03 |
|---|---|
| Base | xs:nonNegativeInteger |
| totalDigits | 3 |

### 6.138 simpleType: n05

| Tag | n05 |
|---|---|
| Base | xs:nonNegativeInteger |
| totalDigits | 5 |

### 6.139 simpleType: n06

| Tag | n06 |
|---|---|
| Base | xs:nonNegativeInteger |
| totalDigits | 6 |

### 6.140 simpleType: operatingModeType

| Tag | operatingModeType |
|---|---|
| Base | xs:string |
| enumeration | N = Normal |
| enumeration | B = ByPass |

### 6.141 simpleType: onePassOrTwoPassType

| Tag | onePassOrTwoPassType |
|---|---|
| Base | xs:string |
| enumeration | One |
| enumeration | Two |

### 6.142 simpleType: onePassPlannedOrActualFlagType

| Tag | onePassPlannedOrActualFlagType |
|---|---|
| Base | xs:string |
| enumeration | A = Actual |
| enumeration | P = Planned |

### 6.143 simpleType: packageIDType

| Tag | packageIDType |
|---|---|
| Base | mailxml_base:s06 |

### 6.144 simpleType: PackageServicesType

| Tag | PackageServicesType |
|---|---|
| Base | xs:string |
| enumeration | PS |
| enumeration | BPM |
| enumeration | LIB |
| enumeration | MEDIA |


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| Tag | PackageServicesType |
|---|---|
| enumeration | PP |

## 6.145 simpleType: packageCountRangeType

| Tag | packageCountRangeType |
|---|---|
| Base | xs:Integer |
| Pattern | [1-9]\|[1-9][0] |

## 6.146 simpleType: packagingMethodType

| Tag | packagingMethodType |
|---|---|
| Base | xs:string |
| enumeration | 0 = Piece Count |
| enumeration | 1 = Weight |
| enumeration | 2 = Both |

## 6.147 simpleType: palletHandlingUnitType

| Tag | palletHandlingUnitType |
|---|---|
| Base | xs:string |
| enumeration | Sacks |
| enumeration | Bundles |
| enumeration | MixedLengthTrays |
| enumeration | 1ft Tray |
| enumeration | 2ft Tray |
| enumeration | EMM Tray |
| enumeration | Flat Tub |
| enumeration | Parcels |

## 6.148 simpleType: palletType

| Tag | palletType |
|---|---|
| Base | xs:string |
| enumeration | Pallet |
| enumeration | EIRS 61 - Hamper, Large Canvas |
| enumeration | EIRS 61P - Hamper, Large Plastic |
| enumeration | EIRS 66 - General Purpose Mail Container w/Gate |
| enumeration | EIRS 68 - Eastern Region Mail Container w/Web Door |
| enumeration | EIRS 84 - Wire Container Rigid |
| enumeration | EIRS 84C - Collapsible Wire Container |

## 6.149 simpleType: parentContainerRefIDType

| Tag | parentContainerRefIDType |
|---|---|
| Base | mailxml_base:s06 |

## 6.150 simpleType: percentageType

| Tag | percentageType |
|---|---|
| Base | xs:decimal |
| totalDigits | 5 |
| fractionDigits | 2 |
| minInclusive | 0.00 |
| maxInclusive | 100.00 |

## 6.151 simpleType: periodicalPriceType

| Tag | periodicalPriceType |
|---|---|
| Base | xs:string |


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| Tag | periodicalPriceType |
|---|---|
| enumeration | D = Non-Advertising Pound Rate – DSCF (B13) |
| enumeration | C = Non-advertising Pound Rate – DDU (B12) |
| enumeration | E = Non-Advertising Pound Rate – DADC (B14) |
| enumeration | R = Repositionable notes (surcharge) (A21, F2) |
| enumeration | Z = Non-Advertising Pound Rate – All Others (B15) |
| enumeration | 5 = Non-Advertising Piece Rate (C30) |
| enumeration | 9 = Ride-along Surcharge (A20, F1) |
| enumeration | 1 = DDU (A17) |

## 6.152 simpleType: permitTypeType

| Tag | permitTypeType |
|---|---|
| Base | xs:string |
| enumeration | PI = Permit Imprint |
| enumeration | MT = Metered Tape |
| enumeration | PC = Pre-cancelled Stamps |
| enumeration | BR = Business Reply |
| enumeration | PE = Periodicals |
| enumeration | GH = Ghost |
| enumeration | OI = Official Imprint |
| enumeration | OM = Official Imprint |
| enumeration | PP = Pending Periodicals |
| enumeration | PA = Partial Permit Imprint |

## 6.153 simpleType: phoneNumberType

| Tag | phoneNumberType |
|---|---|
| Base | xs:string |
| maxLength | 25 |
| minLength | 1 |
| whiteSpace | preserve |

## 6.154 simpleType: pickupOrDeliveryType

| Tag | pickupOrDeliveryType |
|---|---|
| Base | xs:string |
| enumeration | Pickup |
| enumeration | Delivery |

## 6.155 simpleType: planetCodeType

| Tag | planetCodeType |
|---|---|
| Base | xs:string |
| maxLength | 13 |
| minLength | 11 |
| pattern | [0-9]{2} |

## 6.156 simpleType: postageGroupingIDType

| Tag | postageGroupingIDType |
|---|---|
| Base | mailxml_base:s08 |

## 6.157 simpleType: postagePaymentMethodType

| Tag | postagePaymentMethodType |
|---|---|
| Base | xs:string |
| enumeration | S |
| enumeration | M |
| enumeration | P |


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## 6.158 simpleType: postageStatementLineNumber1Type

| Tag | postageStatementLineNumber1Type |
|---|---|
| Base | xs:string |
| enumeration | E26 |
| enumeration | E27 |
| enumeration | E28 |
| enumeration | E29 |
| enumeration | E30 |
| enumeration | E31 |
| enumeration | E32 |
| enumeration | E33 |
| enumeration | E34 |
| enumeration | E35 |
| enumeration | E36 |
| enumeration | E37 |
| enumeration | E38 |
| enumeration | E39 |
| enumeration | E40 |
| enumeration | E41 |
| enumeration | E42 |
| enumeration | E43 |
| enumeration | E44 |
| enumeration | E45 |
| enumeration | E46 |

## 6.159 simpleType: postageStatementLineNumber2Type

| Tag | postageStatementLineNumber2Type |
|---|---|
| Base | xs:string |
| enumeration | E1 |
| enumeration | E2 |
| enumeration | E3 |
| enumeration | E4 |
| enumeration | E5 |
| enumeration | E6 |
| enumeration | E7 |
| enumeration | E8 |
| enumeration | E9 |
| enumeration | E10 |
| enumeration | E11 |
| enumeration | E12 |
| enumeration | E13 |
| enumeration | E14 |
| enumeration | E15 |
| enumeration | E16 |
| enumeration | E17 |
| enumeration | E18 |
| enumeration | E19 |
| enumeration | E20 |
| enumeration | E21 |
| enumeration | E22 |
| enumeration | E23 |
| enumeration | E24 |

## 6.160 simpleType: postageStatementLineNumber3Type

| Tag | postageStatementLineNumber3Type |
|---|---|
| Base | xs:string |
| enumeration | D1 |


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| Tag | postageStatementLineNumber3Type |
|---|---|
| enumeration | D2 |
| enumeration | D3 |
| enumeration | D4 |
| enumeration | D5 |
| enumeration | D6 |
| enumeration | D7 |
| enumeration | D8 |
| enumeration | D9 |
| enumeration | D10 |
| enumeration | D11 |
| enumeration | D12 |
| enumeration | D13 |
| enumeration | D14 |
| enumeration | D15 |
| enumeration | D16 |
| enumeration | D17 |

## 6.161 simpleType: postageStatementStatusType

| Tag | postageStatementStatusType |
|---|---|
| Base | xs:string |
| enumeration | UPD = Updated |
| enumeration | FIN = Finalized |
| enumeration | REW = Rework |
| enumeration | REV = Reversed |
| enumeration | CAN = Cancelled |
| enumeration | FAI = Failed Verification |
| enumeration | PEN = Pending |
| enumeration | PAS = Passed |
| enumeration | INC = Incomplete |
| enumeration | NAP = Not Available for Processing |
| enumeration | EST = Estimate Postage |
| enumeration | CON = Consolidated Postage Statement |
| enumeration | ERR = Error |
| enumeration | COM = Complete |
| enumeration | AVW = Address Verification Warning |
| enumeration | PAV = Pending Address Verification |
| enumeration | FPP = Finalized Pending Payment |

## 6.162 simpleType: priceType

| Tag | priceType |
|---|---|
| Base | xs:string |
| enumeration | commercial |
| enumeration | commercial plus |
| enumeration | retail |
| enumeration | NSA |

## 6.163 simpleType: primarySecondaryIndicatorType

| Tag | primarySecondaryIndicatorType |
|---|---|
| Base | xs:string |
| enumeration | P = Primary |
| enumeration | S = Secondary |

## 6.164 simpleType: processingCategoryType

| Tag | processingCategoryType |
|---|---|


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| Tag | processingCategoryType |
|---|---|
| Base | xs:string |
| enumeration | LT = Letter |
| enumeration | FL = Flat |
| enumeration | CD = Card |
| enumeration | OS = Outside Parcel |
| enumeration | MP = Machinable Parcel |
| enumeration | IR = Irregular Parcel |
| enumeration | PF = Parcel, First Class |
| enumeration | CM = Custom Mail |
| enumeration | NP = Non-Machinable Parcel |
| enumeration | SP = Small Packets |
| enumeration | MB = M-Bags |

## 6.165 simpleType: processingCodeType

| Tag | processingCodeType |
|---|---|
| Base | xs:string |
| enumeration | S = Surface |
| enumeration | MXDS = Mixed Surface |
| enumeration | L = Locale |
| enumeration | WKG = Working Mail |
| enumeration | A = Air Separation |
| enumeration | MXDA = Mixed Air |
| enumeration | SP = Single Piece |

## 6.166 simpleType: qualificationReportClassType

| Tag | qualificationReportClassType |
|---|---|
| Base | xs:string |
| enumeration | FC = First Class |
| enumeration | S = Standard |
| enumeration | P = Periodicals |
| enumeration | PM = Priority Mail |
| enumeration | PP = Parcel Post |
| enumeration | A = Air Mail |

## 6.167 simpleType: rateCategoryType

| Tag | rateCategoryType |
|---|---|
| Base | xs:string |
| enumeration | A = Saturation ECR |
| enumeration | A1 = Non-Automation Saturation – ECR |
| enumeration | AF = Saturation ECT Letter |
| enumeration | B = High Density ECR |
| enumeration | B1 = Non-Automation High Density - ECR |
| enumeration | BF = High Density SCR Letter |
| enumeration | D = Carrier Route |
| enumeration | D1 = Non Automation Carrier Route |
| enumeration | DF = Carrier Letter |
| enumeration | E = 5 Digit Barcode |
| enumeration | FB = Firm Bundle (Not In-County) |
| enumeration | G = 5D Non-Barcode |
| enumeration | GF = 5D Letter |
| enumeration | H = 3 Digit Barcode |
| enumeration | K = 3D Non-Barcode |
| enumeration | KF = 3D Letter |
| enumeration | L = Basic Barcode |
| enumeration | L1 = AADC Barcode |


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| Tag | rateCategoryType |
|---|---|
| enumeration | L2 = Mixed AADC Barcode |
| enumeration | L3 = ADC Barcode |
| enumeration | L4 = Mixed ADC Barcode |
| enumeration | L5 = ADC Non-Barcode |
| enumeration | L6 = Mixed ADC Non-Barcode |
| enumeration | L7 = AADC Non-Barcode |
| enumeration | L8 = Mixed AADC Non-Barcode |
| enumeration | TE = 5-Digit |
| enumeration | TK = SCF |
| enumeration | TQ = NDC |
| enumeration | TR = Mixed NDC |
| enumeration | N = Basic Non-Automation (Basic Presorted) |
| enumeration | O = Carrier Route – Barcode |
| enumeration | O1 = Non Automation Carrier Route – Barcode*<br>*Note: Currently Not Allowed To Be Used.* |
| enumeration | PI = 5 Digit Parcel 0.2063 Pounds or less |
| enumeration | PM = 3 Digit Parcel 0.2063 Pounds or less |
| enumeration | P7 = NDC Parcel 0.2063 pounds or less |
| enumeration | P8 = Mixed NDC Parcel 0.2063 Pounds or less |
| enumeration | PE = 5 Digit Machinable Parcel over 0.2063 Pounds |
| enumeration | PQ = NDC Machinable Parcel over 0.2063 Pounds |
| enumeration | PR = Mixed NDC Machinable Parcel over 0.2063 Pounds |
| enumeration | PG = 5 Digit Irregular Parcel over 0.2063 Pounds |
| enumeration | PK = 3 Digit Irregular Parcel over 0.2063 Pounds |
| enumeration | P5 = NDC Irregular Parcel over 0.2063 Pounds |
| enumeration | P6 = Mixed NDC Irregular Parcel over 0.2063 Pounds |
| enumeration | S = Single Piece |
| enumeration | SD = Single-Piece/Does not meet content standards |
| enumeration | Z1 = Parcel Post (NDC Sort) |
| enumeration | Z2 = Parcel Post (ONDC Sort) |
| enumeration | P10 = Priority Mail Regional Rate Box A (max weight 15 lbs) |
| enumeration | P11 = Priority Mail Regional Rate Box B (max weight 20 lbs) |
| enumeration | P12 = Priority Mail – Cubic Tier 1 (up to .10 lbs) |
| enumeration | P13 = Priority Mail – Cubic Tier 2 (up to .20 lbs) |
| enumeration | P14 = Priority Mail – Cubic Tier 3 (up to .30 lbs) |
| enumeration | P15 = Priority Mail – Cubic Tier 4 (up to .40 lbs) |
| enumeration | P16 = Priority Mail – Cubic Tier 5 (up to .50 lbs) |
| enumeration | IA10 = International Postcards |
| enumeration | IA11 = Letters (up to 3.5 ounces), Flats and Packages/Small Packets (up to 4 pounds) |
| enumeration | IA12 = Nonmachinable Surcharge (letters only, up to 3.5 ounces) |
| enumeration | IA13 = M-Bag Airmail |
| enumeration | IB14 = Worldwide Nonpresort |
| enumeration | IB15 = International Surface Air Lift-M-Bag-ISAL |
| enumeration | IC15 = International Priority Mail-IPA |
| enumeration | IC17 = Worldwide Nonpresort |
| enumeration | IC18 = International Priority Mail-M-Bag-IPA |
| enumeration | ID19 = Priority Mail International |
| enumeration | ID20 = Flat Rate Envelopes (Individual Weight Limit: 4 lbs.) (15" x 9 1/2" or Smaller) |
| enumeration | ID21 = Padded Flat Rate Envelope (Individual Weight Limit: 4 lbs.) |
| enumeration | ID22 = Small Flat Rate Boxes (Individual Weight Limit: 4 lbs.)<br>(Including items O-Small FRBX, ODVDS, and O-1096-L) |
| enumeration | ID23 = Medium Flat Rate Boxes (Individual Weight Limit: 20 lbs.) |
| enumeration | ID24 = Large Flat Rate Box (Individual Weight Limit: 20 lbs.) |
| enumeration | IE25 = Flat Rate Envelopes (Individual Weight Limit: 4 lbs.) (15" x 9 1/2" or Smaller) |
| enumeration | IE26 = Padded Flat Rate Envelope (Individual Weight Limit 4 lbs.) |
| enumeration | IE27 = Small Flat Rate Boxes (Individual Weight Limit: 4 lbs.) |


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| Tag | rateCategoryType |
|---|---|
| | (Including items O-Small FRBX, ODVDS, and O-1096-L) |
| enumeration | IE28 = Medium Flat Rate Boxes (Individual Weight Limit: 20 lbs.) |
| enumeration | IE29 = Large Flat Rate Box (Individual Weight Limit: 20 lbs.) |
| enumeration | IF30 = Express Mail International |
| enumeration | IF31 = Express Mail International Flat Rate Envelopes (15" x 9 1/2" or Smaller) |
| enumeration | IG32 = Global Express Guaranteed (GXG) |
| enumeration | IH33 = Global Bulk Economy Mail-Base Prices-New Jersey Entry |
| enumeration | IH34 = Global Bulk Economy Mail-M-Bag - New Jersey Entry |
| enumeration | II35 = NDG Presort |
| enumeration | II36 = LCP Delivery Mode Direct |
| enumeration | II37 = LCP Delivery Facility |
| enumeration | II38 = LCP Distribution Center Facility (DCF) |
| enumeration | II39 = LCP Forward Consolidation Point (FCP) |
| enumeration | II40 = LCP Residual |
| enumeration | II41 = Excess Weight Postage-if applicable<br>(for items over 0.1100 lbs. up to 1.100 lbs. [over 1.76 oz. up to 17.6 oz.]) |
| enumeration | IJ42 = NDG Presort |
| enumeration | IJ43 = LCP Delivery Mode Direct |
| enumeration | IJ44 = LCP Delivery Facility |
| enumeration | IJ45 = LCP Distribution Center Facility (DCF) |
| enumeration | IJ46 = LCP Forward Consolidation Point (FCP) |
| enumeration | IJ47 = LCP Residual |
| enumeration | IK48 = Canada Lettermail - Standard (S/L) - up to 1.0576 oz. |
| enumeration | IK49 = Canada Lettermail - Standard (S/L) -over 1.0576 oz. and up to 1.7632 oz. |
| enumeration | IK50 = Canada Lettermail - Other Lettermail<br>(Non-standard and Oversize) - up to 3.5264 oz. |
| enumeration | IK51 = Canada Lettermail - Other Lettermail<br>(Non-standard and Oversize) - over 3.5264 oz. and up to 7.0544 oz. |
| enumeration | IK52 = Canada Lettermail - Other Lettermail<br>(Non-standard and Oversize) - over 7.0544 oz. and up to 10.5808 oz. |
| enumeration | IK53 = Canada Lettermail - Other Lettermail<br>(Non-standard and Oversize) - over 10.5808 oz. and up to 14.1088 oz. |
| enumeration | IK54 = Canada Lettermail - Other Lettermail<br>(Non-standard and Oversize) - over 14.1088 oz. and up to 17.6368 oz. |
| enumeration | IK55 = Canada Incentive Lettermail - Standard (S/L) Machinable - up to 1.0576 oz. |
| enumeration | IK56 = Canada Incentive Lettermail - Standard (S/L) Machinable -<br>over 1.0576 oz. and up to 1.7632 oz. |
| enumeration | IK57 = Canada Incentive Lettermail - Standard (S/L) Machinable -<br>over 1.7632 oz. and up to 3.5264 oz. |
| enumeration | IK58 = Canada Incentive Lettermail - Standard (S/L) - Presort - up to 1.0576 oz. |
| enumeration | IK59 = Canada Incentive Lettermail - Standard (S/L) - Presort -<br>over 1.0576 oz. and up to 1.7632 oz. |
| enumeration | IK60 = Canada Incentive Lettermail - Standard (S/L) - Presort -<br>over 1.7632 oz. and up to 3.5264 oz. |
| enumeration | IK61 = Canada Incentive Lettermail - Standard (S/L) - Presort Local - up to 1.0576 oz. |
| enumeration | IK62 = Canada Incentive Lettermail - Standard (S/L) -<br>Presort Local - over 1.0576 oz. and up to 1.7632 oz. |
| enumeration | IK63 = Canada Incentive Lettermail - Standard (S/L) - Presort Local -<br>over 1.7632 oz. and up to 3.5264 oz. |
| enumeration | IK64 = Canada Incentive Lettermail - Oversize (O/S) - Machinable - up to 3.5264 oz. |
| enumeration | IK65 = Canada Incentive Lettermail - Oversize (O/S) - Machinable -<br>over 3.5264 oz. and up to 17.6368 oz. |
| enumeration | IK66 = Canada Incentive Lettermail - Oversize (O/S) - Presort - up to 3.5264 oz. |
| enumeration | IK67 = Canada Incentive Lettermail - Oversize (O/S) - Presort -<br>over 3.5264 oz. and up to 17.6368 oz. |
| enumeration | IQ68 = Global Direct |
| enumeration | IR69 = Reserved |
| enumeration | PS1 |


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| Tag | rateCategoryType |
|---|---|
| enumeration | PS2 |
| enumeration | PS3 |
| enumeration | PS4 |
| enumeration | PS5 |
| enumeration | PS6 |
| enumeration | PS7 |
| enumeration | PS8 |
| enumeration | PS9 |
| enumeration | PS10 |
| enumeration | PS11 |

## 6.168 simpleType: rateLevelType

| Tag | rateLevelType |
|---|---|
| Base | xs:string |
| enumeration | SP = Single Piece |
| enumeration | 5B = Auto 5 Digit |
| enumeration | 3B = Auto 3 Digit |
| enumeration | AB = Auto ADC/AADC |
| enumeration | PSRT = Presort |
| enumeration | 5D = Presort 5 Digit |
| enumeration | 3D = Presort 3 Digit |
| enumeration | NDC = NDC Presort |
| enumeration | ONDC = ONDC Presort |
| enumeration | BP = Standard Mail NDC |
| enumeration | MP = Mixed NDC Standard |
| enumeration | AD = ADC Presort |
| enumeration | MD = Mixed ADC Presort |
| enumeration | WS = Carrier Route Saturation |
| enumeration | HD = Carrier Route High Density |
| enumeration | CR = Carrier Route Basic |
| enumeration | MB = Auto Mixed ADC/AADC |
| enumeration | FB = Firm Bundle |
| enumeration | BB = Barcode Basic |
| enumeration | SCF |

## 6.169 simpleType: rateLevelIndicatorType

| Tag | rateLevelIndicatorType |
|---|---|
| Base | xs:string |
| enumeration | A = Auto (use with Rate Level 5B, 3B, AB, MB) |
| enumeration | B = Non-Auto (use with Rate Level 5D, 3D, AD, MD) |
| enumeration | C = ECR (use with Rate Level WS, HD, CR) |
| enumeration | M = Machinable (use with Rate Level AB, MB) |
| enumeration | N = Non-Machinable (use with Rate Level 5D, 3D, AD, MD) |

## 6.170 simpleType: rateType

| Tag | rateType |
|---|---|
| Base | xs:string |
| enumeration | R = Regular |
| enumeration | L = Library Mail |
| enumeration | B = Bound Printed Matter |
| enumeration | C = Classroom |
| enumeration | S = Science of Agriculture |
| enumeration | F = Media Mail |
| enumeration | A = Alt Delivery |
| enumeration | N = Non-Profit |


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| Tag | rateType |
|---|---|
| enumeration | P = Parcel Post |
| enumeration | T = Priority Mail |
| enumeration | X = Other |
| enumeration | H = (Placeholders) |
| enumeration | M = Parcel Select Regional Ground Mailing |
| enumeration | Z = (Placeholders) |
| enumeration | E = Priority Mail Flat Fixed (Rate Envelope) |
| enumeration | G = Priority Mail Flat Fixed (Rate Box) |
| enumeration | 1 = UA (International) |
| enumeration | 2 = UL (International) |
| enumeration | 3 = UM (International) |
| enumeration | 4 = UR (International) |
| enumeration | J = Priority Mail Flat – Large Box |
| enumeration | K = Priority Mail Flat – Large Box APO/FPO |
| enumeration | V=FCM Election Mail |
| enumeration | W = Science and Agriculture Limited |
| enumeration | Y = Regular Limited Circulation |

## 6.171 simpleType: reasonCodeType

| Tag | reasonCodeType |
|---|---|
| Base | xs:string |
| enumeration | A = Attempted – Not Known |
| enumeration | B = Returned for Better Address |
| enumeration | D = Outside Delivery Limits |
| enumeration | E = In Dispute |
| enumeration | I = Insufficient Address |
| enumeration | L = Illegible |
| enumeration | M = No Mail Receptacle |
| enumeration | N = No such number |
| enumeration | P = Deceased |
| enumeration | Q = Not Deliverable as Addressed/ Unable to Forward |
| enumeration | R = Refused |
| enumeration | S = No Such Street |
| enumeration | U = Unclaimed |
| enumeration | V = Vacant |
| enumeration | X = No Such Office |

## 6.172 simpleType: recurringStatusType

| Tag | recurringStatusType |
|---|---|
| Base | xs:string |
| enumeration | Active |
| enumeration | Pending |
| enumeration | All |

## 6.173 simpleType: reservationNumberType

| Tag | reservationNumberType |
|---|---|
| Base | mailxml_base:s15 |

## 6.174 simpleType: roleType

| Tag | roleType |
|---|---|
| Base | xs:string |
| enumeration | Data Update Agent |
| enumeration | Owner |
| enumeration | Confirm Subscriber |


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| Tag | roleType |
|---|---|
| enumeration | Confirm Data Receiver |
| enumeration | ACS Data Receiver |
| enumeration | ACS Subscriber |
| enumeration | List Owner |
| enumeration | Mail Creator |
| enumeration | Addressor |
| enumeration | Comail |
| enumeration | CoMingler |
| enumeration | MLOCR |
| enumeration | Mail Owner |
| enumeration | Mail Agent |
| enumeration | Entry Point Planner |
| enumeration | Shipment Planner |
| enumeration | Consolidator |
| enumeration | Secondary Consolidator |
| enumeration | Appointment Management Receiver |
| enumeration | Consignee/Product Receiver |
| enumeration | Dispatcher |
| enumeration | Tracker CONFIRM-scan |
| enumeration | Tracker CONFIRM-payer |
| enumeration | Tracker Seed Source |
| enumeration | Tracker Piece-level-scan |
| enumeration | Tracker ASN-scan |
| enumeration | Tracker Induction-scan |
| enumeration | Tracker Planet-code |
| enumeration | ACS receiver |
| enumeration | ACS payer |
| enumeration | Seamless Acceptance |
| enumeration | Seamless Verification |
| enumeration | Security |
| enumeration | Logistics Provider |
| enumeration | Carrier |
| enumeration | Data Brokering Agent |
| enumeration | Nixie |
| enumeration | StartTheClock |
| enumeration | ContainerVisibility |
| enumeration | DeliveryPointValidation |

## 6.175 simpleType: responsibleTransportationPartyType

| Tag | responsibleTransportationPartyType |
|---|---|
| Base | xs:string |
| enumeration | Shipper |
| enumeration | Consignee |

## 6.176 simpleType: retrieveDataBy

| Tag | retrieveDataBy |
|---|---|
| Base | xs:string |
| enumeration | FS = Full Service |
| enumeration | NFS = Non-Full Service |
| enumeration | Both |

## 6.177 simpleType: RoutingZipCodeType

| Tag | RoutingZipCodeType |
|---|---|
| Base | xs:string |
| maxLength | 11 |


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| Tag | RoutingZipCodeType |
|---|---|
| minLength | 0 |

### 6.178 simpleType: s01

| Tag | s01 |
|---|---|
| Base | xs:string |
| maxLength | 1 |
| minLength | 1 |
| whiteSpace | preserve |

### 6.179 simpleType: s02

| Tag | s02 |
|---|---|
| Base | xs:string |
| maxLength | 2 |
| minLength | 1 |
| whiteSpace | preserve |

### 6.180 simpleType: s03

| Tag | s03 |
|---|---|
| Base | xs:string |
| maxLength | 3 |
| minLength | 1 |
| whiteSpace | preserve |

### 6.181 simpleType: s04

| Tag | s04 |
|---|---|
| Base | xs:string |
| maxLength | 4 |
| minLength | 1 |
| whiteSpace | preserve |

### 6.182 simpleType: s05

| Tag | s05 |
|---|---|
| Base | xs:string |
| maxLength | 5 |
| minLength | 1 |
| whiteSpace | preserve |

### 6.183 simpleType: s06

| Tag | s06 |
|---|---|
| Base | xs:string |
| maxLength | 6 |
| minLength | 1 |
| whiteSpace | preserve |

### 6.184 simpleType: s07

| Tag | s07 |
|---|---|
| Base | xs:string |
| maxLength | 7 |
| minLength | 1 |
| whiteSpace | preserve |


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### 6.185 simpleType: s08

| Tag | s08 |
|---|---|
| Base | xs:string |
| maxLength | 8 |
| minLength | 1 |
| whiteSpace | preserve |

### 6.186 simpleType: s09

| Tag | s09 |
|---|---|
| Base | xs:string |
| maxLength | 9 |
| minLength | 1 |
| whiteSpace | preserve |

### 6.187 simpleType: s10

| Tag | s10 |
|---|---|
| Base | xs:string |
| maxLength | 10 |
| minLength | 1 |
| whiteSpace | preserve |

### 6.188 simpleType: s11

| Tag | s11 |
|---|---|
| Base | xs:string |
| maxLength | 11 |
| minLength | 1 |
| whiteSpace | preserve |

### 6.189 simpleType: s12

| Tag | s12 |
|---|---|
| Base | xs:string |
| maxLength | 12 |
| minLength | 1 |
| whiteSpace | preserve |

### 6.190 simpleType: s15

| Tag | s15 |
|---|---|
| Base | xs:string |
| maxLength | 15 |
| minLength | 1 |
| whiteSpace | preserve |

### 6.191 simpleType: s16

| Tag | s16 |
|---|---|
| Base | xs:string |
| maxLength | 16 |
| minLength | 1 |
| whiteSpace | preserve |

### 6.192 simpleType: s18

| Tag | s18 |
|---|---|
| Base | xs:string |
| maxLength | 18 |
| minLength | 1 |


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| Tag | s18 |
|---|---|
| whiteSpace | preserve |

### 6.193 simpleType: s20

| Tag | s20 |
|---|---|
| Base | xs:string |
| maxLength | 20 |
| minLength | 1 |
| whiteSpace | preserve |

### 6.194 simpleType: s22

| Tag | s22 |
|---|---|
| Base | xs:string |
| maxLength | 22 |
| minLength | 1 |
| whiteSpace | preserve |

### 6.195 simpleType: s25

| Tag | s25 |
|---|---|
| Base | xs:string |
| maxLength | 25 |
| minLength | 1 |
| whiteSpace | preserve |

### 6.196 simpleType: s28

| Tag | s28 |
|---|---|
| Base | xs:string |
| maxLength | 28 |
| minLength | 1 |
| whiteSpace | preserve |

### 6.197 simpleType: s30

| Tag | s30 |
|---|---|
| Base | xs:string |
| maxLength | 30 |
| minLength | 1 |
| whiteSpace | preserve |

### 6.198 simpleType: s31

| Tag | s31 |
|---|---|
| Base | xs:string |
| maxLength | 31 |
| minLength | 1 |
| whiteSpace | preserve |

### 6.199 simpleType: s37

| Tag | s37 |
|---|---|
| Base | xs:string |
| maxLength | 37 |
| minLength | 1 |
| whiteSpace | preserve |


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### 6.200 simpleType: s40

| Tag | s40 |
|---|---|
| Base | xs:string |
| maxLength | 40 |
| minLength | 1 |
| whiteSpace | preserve |

### 6.201 simpleType: s45

| Tag | s45 |
|---|---|
| Base | xs:string |
| maxLength | 45 |
| minLength | 1 |
| whiteSpace | preserve |

### 6.202 simpleType: s50

| Tag | s50 |
|---|---|
| Base | xs:string |
| maxLength | 50 |
| minLength | 1 |
| whiteSpace | preserve |

### 6.203 simpleType: s60

| Tag | s60 |
|---|---|
| Base | xs:string |
| maxLength | 60 |
| minLength | 1 |
| whiteSpace | preserve |

### 6.204 simpleType: s64

| Tag | s64 |
|---|---|
| Base | xs:string |
| maxLength | 64 |
| minLength | 1 |
| whiteSpace | preserve |

### 6.205 simpleType: s66

| Tag | s66 |
|---|---|
| Base | xs:string |
| maxLength | 66 |
| minLength | 1 |
| whiteSpace | preserve |

### 6.206 simpleType: s80

| Tag | s80 |
|---|---|
| Base | xs:string |
| maxLength | 80 |
| minLength | 1 |
| whiteSpace | preserve |

### 6.207 simpleType: s256

| Tag | s256 |
|---|---|
| Base | xs:string |


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| Tag | s256 |
|---|---|
| maxLength | 256 |
| minLength | 1 |
| whiteSpace | preserve |

### 6.208 simpleType: s260

| Tag | s260 |
|---|---|
| Base | xs:string |
| maxLength | 260 |
| minLength | 1 |
| whiteSpace | preserve |

### 6.209 simpleType: sackingBasisType

| Tag | sackingBasisType |
|---|---|
| Base | xs:string |
| enumeration | 0 = Piece Count |
| enumeration | 1 = 20 lbs. |
| enumeration | 2 = 125 Pieces |
| enumeration | 3 = 15 lbs. |
| enumeration | 4 = Both |

### 6.210 simpleType: ScanState

| Tag | ScanState |
|---|---|
| Base | xs: MPSStateType |

### 6.211 simpleType: scheduledInductionDateType

| Tag | scheduledInductionDateType |
|---|---|
| Base | xs:date |

### 6.212 simpleType: scheduledInductionTimeType

| Tag | scheduledInductionTimeType |
|---|---|
| Base | xs:time |

### 6.213 simpleType: scheduledInHomeDateType

| Tag | scheduledInHomeDateType |
|---|---|
| Base | xs:date |

### 6.214 simpleType: serialNumberSevenOrEleven

| Tag | serialNumberSevenOrEleven |
|---|---|
| Base | String |
| Pattern | [0-9]{7}\|[0-9]{11} |

### 6.215 simpleType: serialNumberTenOrFourteen

| Tag | serialNumberTenOrFourteen |
|---|---|
| Base | String |
| Pattern | [0-9]{10}\|[0-9]{14} |

### 6.216 simpleType: serviceLevelIndicatorType

| Tag | serviceLevelIndicatorType |
|---|---|
| Base | xs:string |


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| Tag | serviceLevelIndicatorType |
|---|---|
| enumeration | F = Full-Service |
| enumeration | B = Basic |
| enumeration | O = Other |

## 6.217 simpleType: serviceCodeType

| Tag | serviceCodeType |
|---|---|
| Base | xs:string |
| enumeration | CM = Certified Mail |
| enumeration | COD = Collect on Delivery |
| enumeration | CODE = Electronic Collect on Delivery |
| enumeration | COM = Certificate of Mailing |
| enumeration | DC = Delivery Confirmation |
| enumeration | IM = Insured Mail |
| enumeration | PAL = Parcel Airlift |
| enumeration | RD = Restricted Delivery |
| enumeration | RM = Registered Mail |
| enumeration | RR = Return Receipt |
| enumeration | RRE = Return Receipt Electronic |
| enumeration | RRM = Return Receipt for Merchandise |
| enumeration | SC = Signature Confirmation |
| enumeration | SH = Special Handling |
| enumeration | AS = Adult Signature |
| enumeration | RAS = Restricted Adult Signature |
| enumeration | DCD=Day  Certain Delivery |

## 6.218 simpleType: ServiceTypeCodeType

| Tag | ServiceTypeCodeType |
|---|---|
| Base | mailxml_base:ns03 |

## 6.219 simpleType: sortationLevelType

| Tag | sortationLevelType |
|---|---|
| Base | xs:string |
| enumeration | CRD |
| enumeration | 5DG |
| enumeration | CR5 |
| enumeration | 5DGS |
| enumeration | CR5S |
| enumeration | M5D |
| enumeration | M5DS |
| enumeration | MET |
| enumeration | 3DG |
| enumeration | CR3 |
| enumeration | 3DGS |
| enumeration | ADC |
| enumeration | AADC |
| enumeration | MADC |
| enumeration | MAAD |
| enumeration | SCF |
| enumeration | PSCF |
| enumeration | NDC |
| enumeration | PNDC |
| enumeration | MNDC |
| enumeration | ASF |
| enumeration | OMX |
| enumeration | PADC |


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| Tag | sortationLevelType |
|---|---|
| enumeration | MRDC |
| enumeration | SP |
| enumeration | MXDS |
| enumeration | MXDA |
| enumeration | WORKING |
| enumeration | SINGLEPIECE |
| enumeration | SURFACE |
| enumeration | AIR |
| enumeration | LOCAL |

## 6.220 simpleType: serviceSubCodeType

| Tag | serviceSubCodeType |
|---|---|
| Base | xs:string |
| enumeration | N = None or Not Bulk |
| enumeration | E = Electronic |
| enumeration | R = Retail or Registered |
| enumeration | T = Requested at Time of Mailing |
| enumeration | B = Bulk |

## 6.221 simpleType: standardFlatTypeType

| Tag | standardFlatTypeType |
|---|---|
| Base | xs:string |
| enumeration | Catalog |
| enumeration | Non Catalog |

## 6.222 simpleType: stateCode

| Tag | stateCode |
|---|---|
| Base | xs:string |
| enumeration | AA = Armed Forces Americas (except Canada) |
| enumeration | AE = Armed Forces Europe (covers all USARAEUR)Armed Forces Canada Armed Forces Middle East Armed Forces Africa |
| enumeration | AP = Armed Forces Pacific |
| enumeration | AL = ALABAMA |
| enumeration | AK = ALASKA |
| enumeration | AS = AMERICAN SAMOA |
| enumeration | AZ = ARIZONA |
| enumeration | AR = ARKANSAS |
| enumeration | CA = CALIFORNIA |
| enumeration | CO = COLORADO |
| enumeration | CT = CONNECTICUT |
| enumeration | DE = DELAWARE |
| enumeration | DC = DISTRICT OF COLUMBIA |
| enumeration | FM = FEDERATED STATES OF MICRONESIA |
| enumeration | FL = FLORIDA |
| enumeration | GA = GEORGIA |
| enumeration | GU = GUAM |
| enumeration | HI = HAWAII |
| enumeration | IL = ILLINOIS |
| enumeration | IN = INDIANA |
| enumeration | IA = IOWA |
| enumeration | ID = IDAHO |
| enumeration | KS = KANSAS |
| enumeration | KY = KENTUCKY |
| enumeration | LA = LOUISIANA |
| enumeration | MH = MARSHALL ISLANDS |


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| Tag | stateCode |
|---|---|
| enumeration | MD = MARYLAND |
| enumeration | MA = MASSACHUSETTS |
| enumeration | MO = MISSOURI |
| enumeration | MI = MICHIGAN |
| enumeration | MN = MINNESOTA |
| enumeration | MS = MISSISSIPPI |
| enumeration | MT = MONTANA |
| enumeration | NE = NEBRASKA |
| enumeration | NH = NEW HAMPSHIRE |
| enumeration | NV = NEVADA |
| enumeration | NJ = NEW JERSEY |
| enumeration | NM = NEW MEXICO |
| enumeration | NY = NEW YORK |
| enumeration | NC = NORTH CAROLINA |
| enumeration | ND = NORTH DAKOTA |
| enumeration | MP = NORTHERN MARIANA ISLANDS |
| enumeration | OH = OHIO |
| enumeration | OR = OREGON |
| enumeration | OK = OKLAHOMA |
| enumeration | PW = PALAU |
| enumeration | PA = PENNSYLVANIA |
| enumeration | PR = PUERTO RICO |
| enumeration | RI = RHODE ISLAND |
| enumeration | SC = SOUTH CAROLINA |
| enumeration | SD = SOUTH DAKOTA |
| enumeration | TN = TENNESSEE |
| enumeration | TX = TEXAS |
| enumeration | UT = UTAH |
| enumeration | VT = VERMONT |
| enumeration | VI = VIRGIN ISLANDS |
| enumeration | VA = VIRGINIA |
| enumeration | WA = WASHINGTON |
| enumeration | WV = WEST VIRGINIA |
| enumeration | WI = WISCONSIN |
| enumeration | WY = WYOMING |

## 6.223 simpleType: statusType

| Tag | statusType |
|---|---|
| Base | xs:string |
| enumeration | Accepted |
| enumeration | Amended |
| enumeration | Cancelled |
| enumeration | Counterproposal |
| enumeration | New |
| enumeration | No Action |
| enumeration | Original |
| enumeration | Partially Accepted |
| enumeration | Pending |
| enumeration | Rejected |
| enumeration | Replaced |

## 6.224 simpleType: stopDesignatorType

| Tag | stopDesignatorType |
|---|---|
| Base | mailxml_base:s02 |


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### 6.225 simpleType: surchargeType

| Tag | surchargeType |
|---|---|
| Base | xs:string |
| enumeration | 2 = Oversized Surcharge |
| enumeration | A = First-Class Mail Parcel Surcharge |
| enumeration | D = Dimensional Rate |
| enumeration | N = Not Oversized |
| enumeration | P = Balloon Surcharge |
| enumeration | E = Permit Reply Mail |
| enumeration | R = First-Class Mail Non-machinable Letters (0.0625 lbs or less) |
| enumeration | L = Detached Address Labels Used |

### 6.226 simpleType: totalWeightType

| Tag | totalWeightType |
|---|---|
| Base | mailxml_base:s05 |

### 6.227 simpleType: trailerLengthType

| Tag | trailerLengthType |
|---|---|
| Base | xs:string |
| enumeration | 20ft |
| enumeration | 40ft |
| enumeration | 45ft |
| enumeration | 48ft |
| enumeration | 53ft |

### 6.228 simpleType: transportationMethodType

| Tag | transportationMethodType |
|---|---|
| Base | xs:string |
| enumeration | USPS |
| enumeration | Mailer |

### 6.229 simpleType: transportationModeType

| Tag | transportationModeType |
|---|---|
| Base | xs:string |
| enumeration | 0 = Reject Due to Error |
| enumeration | 1 = Local and Working |
| enumeration | 2 = Bypassed or Unassigned Surface or Air Mail |
| enumeration | 3 = Assigned Surface (S-AMS Surface) |
| enumeration | 4 = Assigned Air |
| enumeration | 9 = Reject Due to Purge |

### 6.230 simpleType: transShipBoLNumberType

| Tag | transShipBoLNumberType |
|---|---|
| Base | mailxml_base:s05 |

### 6.231 simpleType: trayType

| Tag | trayType |
|---|---|
| Base | xs:string |
| enumeration | MixedLengthTrays |
| enumeration | 1ft Tray |
| enumeration | 2ft Tray |
| enumeration | EMM Tray |
| enumeration | Flat Tub |


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## 6.232 simpleType: trayTypeIndicatorType

| Tag | trayTypeIndicatorType |
|---|---|
| Base | xs:string |
| enumeration | T = 2 Foot Tray |
| enumeration | M = MLOCR |
| enumeration | N = MM Tray |
| enumeration | E = EMM Tray |
| enumeration | O = 1 Foot Tray |
| enumeration | U = Unit Load Device |
| Refer to Mail.dat guide MD_11_2_FS_v11 2 0 41 page 53<br>for a complete list of container types from the Container summary Record – .csm | |

## 6.233 simpleType: truckDispatchNumberType

| Tag | truckDispatchNumberType |
|---|---|
| Base | mailxml_base:s10 |

## 6.234 simpleType: unitLoadType

| Tag | unitLoadType |
|---|---|
| Base | xs:string |
| enumeration | CrossDockPallets |
| enumeration | WorkingPallets |
| enumeration | Trailers |

## 6.235 simpleType: uOMType

| Tag | uOMType |
|---|---|
| Base | xs:string |
| enumeration | AirDryMetricTonne |
| enumeration | AirDryPercent |
| enumeration | AirDryShortTon |
| enumeration | Bale |
| enumeration | BoardFoot |
| enumeration | BookUnit |
| enumeration | Box |
| enumeration | Bundle |
| enumeration | C-Size |
| enumeration | Centimeter |
| enumeration | Cord |
| enumeration | CubicFoot |
| enumeration | CubicMeter |
| enumeration | Cubit |
| enumeration | Day |
| enumeration | DotsPerInch |
| enumeration | Foot |
| enumeration | Gallon |
| enumeration | Gram |
| enumeration | GramsPerSquareMeter |
| enumeration | Hour |
| enumeration | HundredBoardFeet |
| enumeration | HundredLinealFeet |
| enumeration | HundredPound |
| enumeration | HundredSquareFeet |
| enumeration | Inch |
| enumeration | Kilogram |
| enumeration | KilogramsPerDay |
| enumeration | KilogramsPerWeek |
| enumeration | KnownBreaks |


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| Tag | uOMType |
|---|---|
| enumeration | Layer |
| enumeration | Leaves |
| enumeration | LinearFoot |
| enumeration | LinesPerInch |
| enumeration | Load |
| enumeration | MagazineUnit |
| enumeration | Megabyte |
| enumeration | Meter |
| enumeration | MetricTon |
| enumeration | MetricTonsPerDay |
| enumeration | MetricTonsPerWeek |
| enumeration | Micron |
| enumeration | Millimeter |
| enumeration | Minute |
| enumeration | Month |
| enumeration | None |
| enumeration | Package |
| enumeration | Page |
| enumeration | PagesPerInch |
| enumeration | PalletUnit |
| enumeration | Percentage |
| enumeration | PerThousand |
| enumeration | Picas |
| enumeration | Piece |
| enumeration | PixelsPerInch |
| enumeration | Pound |
| enumeration | PoundsPerDay |
| enumeration | PoundsPerHour |
| enumeration | PoundsPerWeek |
| enumeration | PulpUnit |
| enumeration | Ream |
| enumeration | Reel |
| enumeration | Set |
| enumeration | Sheet |
| enumeration | ShortTon |
| enumeration | ShortTonsPerDay |
| enumeration | ShortTonsPerHour |
| enumeration | ShortTonsPerWeek |
| enumeration | Signature |
| enumeration | Skid |
| enumeration | SquareInch |
| enumeration | SquareFeet |
| enumeration | SquareMeter |
| enumeration | ThousandBoardFeet |
| enumeration | ThousandLinealFeet |
| enumeration | ThousandPieces |
| enumeration | ThousandSquareCentimeters |
| enumeration | ThousandSquareFeet |
| enumeration | ThousandSquareInch |
| enumeration | Ton |
| enumeration | TonsPerHour |
| enumeration | Unit |
| enumeration | UnknownBreaks |
| enumeration | Week |
| enumeration | Yard |


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### 6.236 simpleType: uniqueContainerIDType

| Tag | uniqueContainerIDType |
|---|---|
| Base | xs:string |
| maxLength | 12 |
| minLength | 1 |
| whiteSpace | preserve |

### 6.237 simpleType: UpperDateRange

| Tag | UpperDateRange |
|---|---|
| Base | xs:date |

### 6.238 simpleType: userInformationLine1Type

| Tag | userInformationLine1Type |
|---|---|
| Base | mailxml_base:s40 |

### 6.239 simpleType: userInformationLine2Type

| Tag | userInformationLine2Type |
|---|---|
| Base | mailxml_base:s40 |

### 6.240 simpleType: userLicenseCodeType

| Tag | userLicenseCodeType |
|---|---|
| Base | xs:string |
| maxLength | 4 |
| minLength | 1 |
| whiteSpace | preserve |

### 6.241 simpleType: uspsPackageUniqueCharacteristicType

| Tag | uspsPackageUniqueCharacteristicType |
|---|---|
| Base | Xs:string |

### 6.242 simpleType: uspsPickupType

| Tag | uspsPickupType |
|---|---|
| Base | xs:string |
| enumeration | Y = Yes |
| enumeration | N = No |

### 6.243 simpleType: verificationLocationType

| Tag | verificationLocationType |
|---|---|
| Base | xs:string |
| enumeration | BMEU |
| enumeration | DMU |

### 6.244 simpleType: verificationReportType

| Tag | verificationReportType |
|---|---|
| Base | xs:string |
| enumeration | CSAVerification |
| enumeration | ContainerBarcodeVerification |
| enumeration | HandlingUnitBarcodeVerification |
| enumeration | PieceBarcodeVerification |
| enumeration | ByForConflictVerification |
| enumeration | ServiceTypeVerification |
| enumeration | AppointmentVerification |


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| Tag | verificationReportType |
|---|---|
| enumeration | MailerIDVerification |
| Enumeration | ServicePerformanceVerification |
| enumeration | DeliveryPointVerification |
| enumeration | EntryFacilityVerification |
| enumeration | DefaultTrayBarcodeVerification |
| enumeration | IMDVerification |
| enumeration | All |
| enumeration | NoErrors |

## 6.245 simpleType: wastedPieceIndicatorType

| Tag | wastedPieceIndicatorType |
|---|---|
| Base | xs:string |
| enumeration | W = Wasted |
| enumeration | S = Shortage |
| enumeration | X = Wasted piece and postage adjustment should not be triggered |
| enumeration | T = Shortage pieces not produced and postage adjustment should not be triggered |

## 6.246 simpleType: weekFrequencyType

| Tag | weekFrequencyType |
|---|---|
| Base | xs:string |
| enumeration | Weekly |
| enumeration | Bi-Weekly |
| enumeration | First |
| enumeration | Second |
| enumeration | Third |
| enumeration | Fourth |
| enumeration | Fifth |
| enumeration | Sixth |

## 6.247 simpleType: weightBreakType

| Tag | weightBreakType |
|---|---|
| Base | xs:string |
| enumeration | A = For standard Mail Non-Letters, Piece Weight is over 0.2063 lbs.<br>For First-Class Mail Permit Reply, piece weight is over 0.0625 lbs. |
| enumeration | B = For standard mail, piece weight is 0.2063 lbs or less<br>For First-Class Mail Permit Reply, piece weight is 0.0625 lbs or less. |
| enumeration | H = For standard Mail Letters, piece weight is over 0.2063 lbs |
| enumeration | N = None |

## 6.248 simpleType: yesNo

| Tag | yesNo |
|---|---|
| Base | xs:string |
| enumeration | Yes |
| enumeration | No |

## 6.249 simpleType: zipCodeThreeOrFiveDigit

| Tag | zipCodeThreeOrFiveDigit |
|---|---|
| Base | xs:string |
| pattern | "[0-9]{3}\|[0-9]{5}" - Space removed |

## 6.250 simpleType: zoneICType

| Tag | zoneICType |
|---|---|
| Base | xs:string |


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| Tag | zoneICType |
|---|---|
| enumeration | N = None |
| enumeration | M =(Future Placeholder) |
| enumeration | LC = Local |
| enumeration | 1 = Zone 1 & 2 |
| enumeration | 3 = Zone 3 |
| enumeration | 4 = Zone 4 |
| enumeration | 5 = Zone 5 |
| enumeration | 6 = Zone 6 |
| enumeration | 7 = Zone 7 |
| enumeration | 8 = Zone 8 |
| enumeration | ICD |
| enumeration | IC |
| enumeration | DDU |
| enumeration | SCF |
| enumeration | ADC |


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# 7. WSDLs and XSDs

The WSDL specification are posted on RIBBS® and can be downloaded from the following location: Web Service Description Language (WSDLs)

The above RIBBS URL provides WSDLs for both TEM and production environments. User should always use this link to access the correct and updated version of WSDLs in future.

## 7.1 Pull WSDL Links for TEM Environment

To consume the WSDL services in the TEM environment, the customer must use the message-type WSDL.

The link below supports the Mail.XML Modular Specification. On the Modular XSD, the USPS supports the following WSDL points based on the Messages Group (Mailing, Supply Chain, Transportation, Data Distribution, and Identification). The WSDL endpoint for the message group will not change, and will support multiple versions of the Modular spec.

**Data Distribution:**

*TEM Data Distribution WSDL*

## 7.2 Pull WSDL Links for Production Environment

To consume the WSDL services in the Production environment, the customer must use the message-type WSDL.

The link below supports the Mail.XML Modular Specification 12.0A. On the Modular XSD, we support following WSDL points based on the Messages Group (Mailing, Supply Chain, Transportation, Data Distribution, and Identification). The WSDL endpoint for the message group will not change, and will support multiple versions of the Modular spec.

**Data Distribution:**

Data Distribution WSDL

## 7.3 Push WSDLs Information

Customers interested in using the Push Subscription model to receive the data feedback automatically at a specified time to their servers must understand the WSDL name change information below for message-type WSDLs.

**MESSAGE-TYPE PUSH WSDL**

The customer needs to provide the URL for their Web Server and use the specified WSDL. For Mail.XML 12.0A, the following WSDL name shall be used:

WSDL NAME: DataDistributionPushMailXML120A.wsdl

**PUSH MESSAGES XSD NAME CHANGES INFORMATION**

The USPS is implementing a new XSD name to support Mail.XML 12.0A Push subscription messages.


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# 8. Change History Archive

**Data Distribution, Mail.XML 12.0A for Release 19 (January 2015) Edition 1 Change 0**

| Date | Section | Title | Description |
|---|---|---|---|
| 11/20/14 | Various | N/A | Updated cover page & footer to reflect current version and publication date. |

**Data Distribution, Mail.XML 12.0A for Release 19 (January 2015) Edition 1 Change 0**

| Date | Section | Title | Description |
|---|---|---|---|
| 11/7/14 | Various | N/A | Updated cover page, footer to reflect current version and publication date. Corrected typos. |
| 11/7/14 | 1.7 | Roadmap of Mail.XML | Updated table |
| 11/12/14 | 5.216 | Simple Type: serviceLevelIndicatorType | Removed POSTNET value |

**Data Distribution, Mail.XML 12.0A for Release 18 (November 2014) Edition 4 Change 0**

| Date | Section | Title | Description |
|---|---|---|---|
| 8/25/14 | Various | N/A | Updated cover page, footer to reflect Edition 4 publication date |
| 8/25/14 | 1.7 | Roadmap of Mail.XML | Corrected NonComplianceDataWithPostageOwed… message names in table 1-2. |
| 8/25/14 | 2.1 | Full-Service Data Feedback Overview | Corrected NonComplianceDataWithPostageOwed… message names in table 2-1. |
| 8/25/14 | 2.5 | Message Choreography for Data Distribution | Corrected NonComplianceDataWithPostageOwedReportQueryResponse, NonComplianceDataWithPostageOwedReportNotification, and NonComplianceDataWithPostageOwedReportDelivery message names in table 3-1. |
| 8/26/14 | 3.29 | NonCompliance Data With Postage Owed Report Query Response | Corrected NonCompliancePostageOwedReportQueryResponse message name throughout section/table. |
| 8/26/14 | 2 | Various sub-sections | Updated hyperlink for IDEAlliance Mail.XML site to fix broken link; removed version-specific reference in section 2.1.1.2; updated other broken/out-of-date links throughout section 2. |
| 8/27/14 | 4.29 | Complex Type: MPSRequestTypeType | Corrected element name in section heading and table |
| 8/27/14 | 2.1.3 | Why Mail.XML-Based Data Feedback? | Removed reference to obsolete Mail.XML version |

**Data Distribution, Mail.XML 12.0A for Release 18 (November 2014) Edition 2 Change 1**

| Date | Section | Title | Description |
|---|---|---|---|
| 7/30/14 | Various | N/A | Updated cover page, footer, and roadmap to reflect Edition 2 publication date August 1 and release deployment date of November 2014. |

**Data Distribution, Mail.XML 12.0A for Release 18 (October 2014) Edition 2 Change 0**

| Date | Section | Title | Description |
|---|---|---|---|
| 6/25/14 | Various | N/A | Updated cover page, footer, TOC |

**Data Distribution, Mail.XML 12.0A for Release 18 (October 2014) Edition 1 Change 1**

| Date | Section | Title | Description |
|---|---|---|---|
| 5/21/14 | Various | N/A | Updated for release date change from July to August 2014 |


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**Data Distribution, Mail.XML 12.0A for Release 18 (October 2014) Edition 1 Change 0**

| Date | Section | Title | Description |
|---|---|---|---|
| 5/14/14 | Various | N/A | Updated cover page, Table of Contents, footer |
| 5/14/14 | 1.7 | Roadmap of Mal.XML | Added column for October 2014 release |

**Data Distribution, Mail.XML 12.0A for Release 17 (July 2014) Edition 2 Change 2**

| Date | Section | Title | Description |
|---|---|---|---|
| 2/26/14 | 2.2 | Fulfillment of Unassociated ACS Records | Modified wording for clarity |
| 2/26/14 | 2.3 | ACS Billing | Modified wording for clarity |
| 2/26/14 | 2.4 | Deactivating Full Service Data Feedback for Delinquent Accounts | Removed language regarding disabling of MIDs and renamed section |
| 2/26/14 | 6 | WSDLs and XSDs | Modified for clarity |

**Data Distribution, Mail.XML 12.0A for Release 17 (July 2014) Edition 2 Change 1**

| Date | Section | Title | Description |
|---|---|---|---|
| 2/24/14 | Intro page | N/A | Removed April 2013 from “Release Version Support” list |
| 2/24/14 | 1.7 | Roadmap of Mail.XML | Removed column for April 2013 from table and updated wording |
| 2/24/14 | 4.9 | ContainerVisibilityDelivery | Modified to remove references to 11.0D |
| 2/24/14 | 4.10 | ContainerVisibilityNotification | Modified to remove references to 11.0D |
| 2/24/14 | Footer, cover page, Table of contents, index | N/A | • Updated edition number, dates<br>• Updated Table of Contents and Index after other modifications |
| 2/24/14 | All | N/A | Minor edits for grammar, formatting |

**Data Distribution, Mail.XML 12.0A for Release 17 (July 2014) Edition 2 Change 0**

| Date | Section | Title | Description |
|---|---|---|---|
| 2/14/14 | 1.3 | Mail.XML 11.0D | Removed section RE: Mail.XML 11.0D changes |
| 2/14/14 | 2.4 | Disabling Full Service Data Feedback for Delinquent Accounts | Clarified wording |
| 2/14/14 | 2.5 | General Considerations when using Full Service Query Request Messages | Updated to remove references to unsupported Mail.XML versions |
| 2/14/14 | Footer, cover page | N/A | Updated edition number, dates |
| 2/14/14 | 1.2 | Mail.XML 12.0A | Updated return code and description for duplicate request and “No Response” scenarios and examples. |
| 2/14/14 | 2.1.7 | Error/Return Codes | Replaced fault code table with updated values (Table 2-2) |
| 2/14/14 | 1.1 | Program Overview | Corrected tech spec hyperlink |
| 2/14/14 | 4, 5, 6 | All | Alphabetized messages and attribute definitions within each section for easier readability |

**Data Distribution, Mail.XML 12.0A for Release 17 (July 2014) Edition 1 Change 0: published for Review 1/17/2014**

| Date | Section | Title | Description |
|---|---|---|---|
| 1/16/14 | N/A | Intro page | Corrected ACS trademark designation from ® to ™ |

**Data Distribution, Mail.XML 12.0A for Release 17 (July 2014) Edition 1 Change 0: published for Review 1/17/2014**

| Date | Section | Title | Description |
|---|---|---|---|
| 1/2/14 | Header, Footer | Entire Document | Updated publication date, copyright date, edition number |
| 1/2/14 | 1.9 | Roadmap of Mail.XML | Added column for Release 38 (July 2014) |


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**Data Distribution, Mail.XML 12.0A for R16 (January 2014) Edition 3 Change 0: published for Review 11/22/2013**

| Date | Section | Title | Description |
|---|---|---|---|
| 11/4/13 | Header, Footer | Entire Document | Updated publication date and edition number |
| 11/4/13 | 1.8 | Roadmap of Mail.XML | Added double asterisk (**) to Mail.XML 14.0A for Release 37 (January 2014) |

**Data Distribution, Mail.XML 12.0A for R16 (January 2014) Edition 2 Change 0: published for Review 08/23/2013**

| Date | Section | Title | Description |
|---|---|---|---|
| 8/22/13 | 1.4 | Mail.XML 11.0B | Removed section (No longer supported) |
| 8/22/13 | 1.6 | Roadmap of Mail.XML | Updated Roadmap dates and releases. |
| 8/22/13 | Header, Footer | Entire Document | Changed dates to conform with release date. |

**Data Distribution, Mail.XML 12.0A for R16 (January 2014) Edition 1 Change 0:**

| Date | Section | Title | Description |
|---|---|---|---|
| 07/03/2013 | All | Entire Document | Removed references to Mail.XML v. 6.0, 7.0, 8.0, 9.0 |
| 07/16/2013 | All | Entire Document | Updated dates to conform with release date. |

**Data Distribution, Mail.XML 12.0A for R15 (October 2013) edition 2 Change 1.**

| Date | Section | Title | Description |
|---|---|---|---|
| 06/11/2013 | 2.1.7 | Error/Return Codes | Added Error Codes 7140, 7141, 7142, and 7143 to Table 2-6 in Section 2.1.7 |
| 06/03/2013 | All | Entire Document | QA review and corrections |
| 05-31-2013 | All | Entire Document | Corrected grammatical and typographical errors |

**Data Distribution, Mail.XML 12.0A for R15 (October 2013) edition 1 Change 0.**

| Date | Section | Title | Description |
|---|---|---|---|
| 05-24-2013 | All | Entire Document | This document was derived from the XML Tech Spec for Data Distribution 12.0A, ver11.0 dated May 10, 2013. |

**These are the changes from Mail.XML 12.0A Data Distribution Version 9.0 to Mail.XML 12.0A Data Distribution Version 10.0**

| Date | Section | Title | Description |
|---|---|---|---|
| 6/11/2013 | 2.1.7 | Error/ Return Codes | Added Error Codes 7140, 7141, 7142, and 7143 to Table 2-6 in Section 2.1.7 |
| 2/28/2013 | Footer | Footer | Updated publication date in footer |
| 2/28/2013 | 2.1.4 | Trademark | Removed registered trade USPS trade mark in this section since it was already used |

**These are the changes from Mail.XML 12.0A Data Distribution Version 89.0 to Mail.XML 12.0A Data Distribution Version 9.0**

| Date | Section | Title | Description |
|---|---|---|---|
| | 1.11 | Roadmap of Mail.XML | Updated roadmap table, text, and notes to include Release 35/July 2013 with all relevant versions marked appropriately. |
| 2/14/13 | | | Updated footer and header of the document |
| 2/14/13 | 7.0 | Section 7 | - Removed references to “STRING-TYPE PUSH WSDL” since this type is no longer supported by USPS. - Updated section so that it only includes WSDL and XSD information relevant to Data Distribution Mail.XML version 12.0A. |

**These are the changes from Mail.XML 12.0A Data Distribution Version 7.0 to Mail.XML 12.0A Data Distribution Version 8.0**


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| Date | Section | Title | Description |
|---|---|---|---|
| 1/18/13 | | | Updated footer and header of the document |
| 1/18/13 | | | Added the Release 35 to the front page |
| 1/18/13 | | | Assigned a new style to the document |

**These are the changes from Mail.XML 12.0A Data Distribution Version 6.0 to Mail.XML 12.0A Data Distribution Version 7.0**

| Date | Section | Title | Description |
|---|---|---|---|
| 11/28/12 | | | Inserted a page break after the end of document history |
| 11/28/12 | 1.1 | Program Overview | Fixed incorrectly formatted PostalOne! system reference in first paragraph under Business Requirements Revised references to SubmitterTrackingID to clarify that it is a Required field |
| 11/28/12 | All | | Edits throughout the document for consistency in the formatting of “PostalOne!” |
| 11/28/12 | 4.8,4.12,4.14, 4.24, 4.26 | | Fixed spelling of “TotalRecordsAccrossMessages” to “TotalRecordsAcrossMessages” |

**These are the changes from Mail.XML 12.0A Data Distribution Version 5.0 to Mail.XML 12.0A Data Distribution Version 6.0**

| Date | Section | Title | Description |
|---|---|---|---|
| 10/31/12 | 4.8 | FullServiceAddressCorrectionDelivery | Corrected the spelling of the attribute from “LargeTransactionDivideroptionalGroupType” to “LargeTransactionDividerGroupOptionalType” |
| 10/31/12 | 1.6 | Roadmap of Mail.XML | Updated the roadmap of supported version till April 2013 |
| 10/31/12 | All | | Removed references to generic Mail.XML version such as 9.0X or 9.X |

**These are the changes from Mail.XML 12.0A Data Distribution Version 4.0 to Mail.XML 12.0A Data Distribution Version 5.0**

| Date | Section | Title | Description |
|---|---|---|---|
| 09/27/12 | All | | Updated front page and footer for September 28 publication |

**These are the changes from Mail.XML 12.0A Data Distribution Version 3.0 to Mail.XML 12.0A Data Distribution Version 4.0**

| Date | Section | Title | Description |
|---|---|---|---|
| 09/06/12 | 5.18 | Complex Type: IMbMailpieceScanData | Added a section below the table to list out pipe-delimited fields, as well as enumerations for ScanState and BundleScanType. |
| 09/06/12 | 6.0 | Section 6 – Mail.XML 12.0A Simple Types | Edited the headers of tables in sections 6.0 for them to span over multiple pages |
| 09/06/12 | 4.0 | Mail.XML 12.0A Data Feedback Messages | Fixed formatting and edited paragraphs in this section for clarification |

**These are the changes from Mail.XML 12.0A Data Distribution Version 2.1 to Mail.XML 12.0A Data Distribution Version 3.0**

| Date | Section | Title | Description |
|---|---|---|---|
| 08/14/12 | 1.6 | Roadmap of Mail.XML | Updated text to reflect current status and versions Added column in table 1 for January 2013 – Release 33.0 |
| 08/14/12 | 1.13 | PostalOne! WSDL Information | Updated formatting of headings (no underline) for consistency |
| 08/14/12 | 1.15 | Exceptions | Updated table for current version, release, & date information |
| 08/14/12 | 2.1.4 | What is Push Model/Subscription method? | Revised the first sentence |
| 08/14/12 | 2.5 | General Considerations when using Full-service Query | Updated for current versions and dates |


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| Date | Section | Title | Description |
|---|---|---|---|
| | | Request messages | |
| 08/14/12 | 4.10 | AddressCorrectionQueryResponse | Revised text following letter “g” |
| 08/14/12 | 4.12 | ContainerVisibilityDelivery | Fixed alignment mismatch |
| 08/14/12 | 4.14 | ContainerVisibilityQueryResponse | Sec 4.14, p. 80:Revised text in first sentence Corrected spelling error from bloc to block |
| 08/14/12 | 4.28 | StartTheClockDelivery | Fixed alignment under Business Rules |
| 08/14/12 | 4.0 | Mail.XML 12.0A Data Feedback Messages | Updated SubmitterTrackingID to be a Required field |
| 08/14/12 | 7.0 | Section 7 | Corrected index entries highlighted or in blue text to be black |

**These are the changes from Mail.XML 12.0A Data Distribution Version 2.0 to Mail.XML 12.0A Data Distribution Version 2.1**

| Date | Section | Title | Description |
|---|---|---|---|
| 07/27/12 | 4.20.1 | MPSVisQueryResponse | Added comments to the description of the fields |
| 07/27/12 | 4.21.1 | MPSVisDelivery | Added comments to the description of the fields |
| 07/27/12 | 4.22.1 | MPSVisQueryNotification | Added comments to the description of the fields |
| 07/27/12 | 4.0 | Mail.XML 12.0B Data Feedback Messages | Replaced “Refer to this attribute block in Section 6” with “Refer to this attribute block in Section 5” because attribute blocks are documented in Appendix |
| 07/12/12 | 4.0 | | Redesigned the cover page |

**These are the changes from Mail.XML 12.0A Data Distribution Version 1.3 to Mail.XML 12.0A Data Distribution Version 2.0**

| Date | Section | Title | Description |
|---|---|---|---|
| 07/05/12 | 4.0 | | Removed the ScanSTCReconciliation message set (Notification, Delivery, QueryRequest, QueryResponse) because these messages are not supported in Release 31 |
| 07/05/12 | 4.0 | | Removed the MPVis message set (Notification, Delivery, QueryRequest, QueryResponse) because these messages are not supported in Release 31 |
| 07/05/12 | 2.1.7 | Full-service Data Feedback Messages Supported in 8.1 Mail.XML Specification | Removed section 2.1.7 because it was focused on Mail.XML 8.1 |
| 07/05/12 | 2.1.8 | Full-service Data Feedback Messages Supported in 10.0A Mail.XML Specification | Removed section 2.18 because it was focused on Mail.XML 10.0A |
| 07/05/12 | All | | Added a header to the pages prior to p.225 |
| 07/05/12 | 7.0 | Appendix | Removed the italics formatting from text and URLs under Message-Type WSDL URL Link(s) section. Updated hyperlinks for consistency in text style (Arial 10-pt) |
| 07/03/12 | | Index | Removed the highlights in text entries of the Index section |

**These are the changes from Mail.XML 12.0A Data Distribution Version 1.2 to Mail.XML 12.0A Data Distribution Version 1.3**

| Date | Section | Title | Description |
|---|---|---|---|
| 06/13/12 | All | | Updated cover and version numbering for July 6 and 9 Publications for RIBBS |

**These are the changes from Mail.XML 12.0A Data Distribution Version 1.1 to Mail.XML 12.0A Data Distribution Version 1.2**

| Date | Section | Title | Description |
|---|---|---|---|
| 5/15/12 | All | | Removed watermark and updated the document cover and footer for May 18 Initial Publication for RIBBS for October 2012 Release |


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| Date | Section | Title | Description |
|---|---|---|---|
| 05/15/12 | 1.6 | Roadmap of Mail.XML | Updated the roadmap table to include the Mail.XML supported version in October 2012 |
| 05/15/12 | All | | Updated the table labels in the document |

**These are the changes from Mail.XML 12.0A Data Distribution Version 1.0 to Mail.XML 12.0A Data Distribution Version 1.1**

| Date | Section | Title | Description |
|---|---|---|---|
| 05/04/12 | All | | Updated cover and version numbering for May 18 Initial Publication for RIBBS |

**These are the changes from Mail.XML 12.0A Data Distribution Version 4.0 to Mail.XML 12.0A Data Distribution Version 1.0**

| Date | Section | Title | Description |
|---|---|---|---|
| 04/30/12 | 6.239 | DMLTypeType | Added a description to the simple type DMLTypeType (Detached Mailing Label Indicator)A = Detached Address LabelB = Detached Marketing Label |
| 04/30/12 | 6.155 | rateCategoryType | Added the following enumerations to simple type rateCategoryTypeTE = 5-DigitTK = SCFTQ = NDCTR = Mixed NDC for Parcel Select LightWeight |
| 04/25/12 | 6.219 | | Added a description to the enumeration in simpleType: s31 |
| 04/25/12 | | | Removed the following simple types from the technical specification because they do not exist in the Mail.XML 12.0A XSDssimpleType: bundleLevelTypesimpleType: componentIDTypesimpleType: componentWeightTypesimpleType: containerGroupingDescriptionTypesimpleType: containerType simpleType: cptPeriodicalAdPercentageTypesimpleType: cptPeriodicalAdPercentageBasisTypesimpleType: cptPeriodicalAdPercentageStatusTypesimpleType: daysTypesimpleType: dec03-2simpleType: dec04-3simpleType: dec18-6simpleType: dec10-4simpleType: eMD8125ASNBarcodeTypesimpleType: es2simpleType: es31simpleType: fASTContentIDTypesimpleType: inOutCountyIndicatorTypesimpleType: int04simpleType: maildatRecordStatussimpleType: mailIssueTypesimpleType: mailXMLStatusTypesimpleType: moveUpdateTypesimpleType: ns08simpleType: ns13simpleType: n04simpleType: newAddressTypesimpleType: periodicalStatementTypesimpleType: postageStatementStateTypesimpleType: pvdsContainerSubTypesimpleType: recipientTypesimpleType: s72simpleType: s255simpleType: segmentIDTypesimpleType: unloadStateTypesimpleType: USPSPriceIncentiveTypesimpleType: incentiveTypeTypesimpleType: container24CharacterBarcodeType |
| 04/23/12 | 5.32 | MidEntryType | Removed this complex type from the Data Distribution specification because it is rather a MID-CRID complex type |
| 04/23/12 | 5.10 | CRIDEntryType | Removed this complex type from the Data Distribution specification because it is rather a MID-CRID complex type |
| 04/23/12 | 5.25 | LegalAknowledgment BlockMIDType | Removed this complex type from the Data Distribution specification because it is rather a MID-CRID complex type |
| 04/23/12 | 5.24 | LegalAknowledgment BlockCRIDType | Removed this complex type from the Data Distribution specification because it is rather a MID-CRID complex type |
| 04/23/12 | 2.2 | Profile Management Overview | Removed this section and its sub-section given that these functionalities are documented in the MID-CRID Tech spec. |
| 04/23/12 | 1.6 | Roadmap of Mail.XML | Removed the following message USPSCRIDCreateRequestUSPSCRIDCreateResponseUSPSMIDCreateRequestUSPSMIDCreateResponsefrom the table of Profiles and Full-service Data Feedback Messages |
| 04/23/12 | 4.42 | USPSCRIDCreateResponse | Removed USPSCRIDCreateResponse because it is rather a MID-CRID message and its data structure. This message is already documented in the MID-CRID technical specification |
| 04/23 | 4.41 | USPSCRIDCreateRe | Removed USPSCRIDCreateRequest because it is rather a MID-CRID |


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| Date | Section | Title | Description |
|---|---|---|---|
| /12 | | quest | message and its data structure. This message is already documented in the MID-CRID technical specification |
| 04/23/12 | 4.40 | USPSMIDCreateResponse | Removed USPSMIDCreateResponse because it is rather a MID-CRID message and its data structure. This message is already documented in the MID-CRID technical specification |
| 04/23/12 | 4.39 | USPSMIDCreateRequest | Removed USPSMIDCreateRequest because it is rather a MID-CRID message and its data structure. This message is already documented in the MID-CRID technical specification |
| 04/18/12 | 6.191 | rateType | Added the description “M = Parcel Select Regional Ground Mailing” to replace the placeholder |

**These are the changes from Mail.XML 12.X Data Distribution Version 3.0 to Mail.XML 12.0A Data Distribution Version 4.0**

| Date | Section | Title | Description |
|---|---|---|---|
| 04/16/12 | All | | Replace Mail.XML 12.X with Mail.XML 12.0A throughout the document given that 12.0A is the version scheduled to be supported for Release 10 – June 2012 |

**These are the changes from Mail.XML 12.X Data Distribution Version 2.1 to Mail.XML 12.X Data Distribution Version 3.0**

| Date | Section | Title | Description |
|---|---|---|---|
| 04/09/12 | All | | Updated cover and version numbering for April 10 Final Publication for RIBBS |
| 04/09/12 | All | | Removed the DRAFT watermark seal |

**These are the changes from Mail.XML 12.X Data Distribution Version 2.0 Mail.XML 12.X Data Distribution Version 2.1**

| Date | Section | Title | Description |
|---|---|---|---|
| 03/13/12 | All | | Updated document front page and footer |
| 03/14/12 | 1.5 | USPS® Limitation Rule on Transaction Requests | Added a disclaimer to inform users/mailers the statement and limitation in this section are under review by the USPS. Updates for this section will be provided in the next Mail.XML technical specification publication. |

**These are the changes from Mail.XML 12.X Data Distribution Version 1.1.0 to Mail.XML 12.X Data Distribution Version 2.0**

| Dates | Section | Title | Description |
|---|---|---|---|
| 03/02/12 | All | | Updated footer and header |
| 03/02/12 | | | Added a new disclaimer on the second page of the document |
| 02/24/12 | All | | Updated document, revised formatting and added “DRAFT” watermark |
| 02/20/12 | 6.105 | simpleType: includedInOtherDocType | Added enumeration I (I = Internal co-palletization) to simple type IncludedInOtherDocType |
| 02/20/12 | 6.289 | simpleType:ContainerScanStateType | Added spaces inside simpleType:ContainerScanStateType enumeration value descriptions |
| 02/20/12 | 4.14.1 | ContainerVisibilityQueryResponse Data Structure | Replaced LargeTransactionDividerGroupType with LargeTransactionDividerGroupOptionalType |
| 02/20/12 | 5.5 | ComplexType: ContainerVisibilityEntry | Updated the complex Type ContainerVisibilityEntry to include ScanEventType |
| 02/20/12 | 5.40 | ComplexType: ScanEventType | Added a new complex type ScanEventType |

**These are the changes from Mail.XML 12.X Data Distribution Version 1.0.0 posted on RIBBS (December 23, 2011) to Mail.XML 12.X Data Distribution Version 1.1.0. (*Note: The final Mail.XML version will be confirmed by the USPS after design is completed.*)**


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| Date | Section | Title | Description |
|---|---|---|---|
| 01/03/12 | All | | Updated Footer and Cover page with correct version number and revision date Added USPS Foreword on 2nd page to describe scope of Change request (CRs) included for Jan 9, 2012 publication |
| 12/29/11 | All | | Replaced “Refer this complex type in Section 5” by “Refer to this complex type in Section 5” |
| 12/29/11 | All | | Replaced “Refer this simple type in Section 6” by “Refer to this simple type in Section 6” |
| 12/29/11 | 5.5 | ContainerVisibilityEntry | Specified ConsigneeApptID in ContainerVisibilityEntry to be Optional but (Required when CSADispatchNumber is not provided) |
| 12/29/11 | 4.13.1 | ContainerVisibilityQueryRequest Data Structure | Updated ConsigneeApptID from a string of 9 to 12 characters in ContainerVisibilityQueryRequest message |
| 12/29/11 | 1.1 | Program Overview | Updated the texts respective to the overview of each Mail.XML version |
| 12/26/11 | | Header & Footer | Updated header and footer |

**These are the changes from Mail.XML 11.0D Data Distribution Version 1.1.0 Posted on RIBBS (November 23, 2011) to Mail.XML 12.X Data Distribution Version 1.0.0**

| Dates | Section | Title | Description |
|---|---|---|---|
| 12/12/11 | 6.288 | MPSStateType | Updated SimpleType: MPSState field enumerations from 12 to 30 |
| 12/12/11 | 6.289 | ContainerScanStateType | Added SimpleType:ContainerScanType |
| 12/12/11 | 5.5 | ContainerVisibilityEntry | Deleted ScanStateField, and added new simple types City, State, and ContainerScanStateDeleted MPSStateType field |
| 12/12/11 | 1.6 | Roadmap of Mail.XML | Updated the table of supported Mail.XML version to include Mail.XML 12.X Updated the table of Profiles and Full-service Data Feedback Messages List by Mail.XML Versions |
| 12/12/11 | All | TrackingID | Updated the length of SimpleType:TrackingID from s12 to s20 |
| 12/13/11 | All | FullService | Removed “FullService” prefix from messages names throughout the document. |
| 12/13/11 | 4.23 | StartTheClockNotification | Removed FullServiceAvailabilityDate by FSNonFSAvailabilityDate and ensured that FullServiceIndicator is removed from StartTheClockNotification message |
| 12/13/11 | 4.13 | ContainerVisibilityQueryRequest | Add DateRange Element in the ContainerVisibilityQueryRequestVerified that ConsigneeApptID and CSAID are optional fields. |
| 12/13/11 | 4.11 | ContainerVisibilityNotification | Make the sequence containing the fields AvailableRecoordCount and CountType unbounded (max occurrences).Verified that NonFullServiceAvailabilityDate is removed from ContainerVisibilityNotification |
| 12/13/11 | 4.0 | Mail.XML 11.0 Data Feedback and Profile Management and Miscellaneous Messages | Verified removal of Mail Piece Scan Visibility Notification message set (MPSVisibilityNotification, MPSVisibilityDelivery, MPSVisbilityQueryRequest, MPSVisibilityQueryResponse). |
| 12/13/11 | 5.6 | ComplexType:clockStartedType | Updated StartTheClockDropShipOrOrigin inside ComplexType:clockStartedType to include City and State after USPSLocaleKey |
| 12/13/11 | 5.14 | ComplexType: dqrContainerInfoType | Updated ComplexType: dqrContainerInfoType to include City and State after USPSLocaleKey |
| 12/14/11 | | SimpleType:ServiceCodeType | Updated SimpleType:ServiceCodeType by adding enumeration CODE = Electronic Collect on Delivery |
| 12/14/11 | 4.19-4.22 | | Added Mail Piece Scan Visibility message set MPSVisNotification, MPSVisDelivery, |


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| Dates | Section | Title | Description |
|---|---|---|---|
| | | | MPSVisQueryRequest,MPSVisQueryResponse |
| 12/14/11 | 4.30-4.33 | | Added Scan Start The Clock Reconciliation message set ScanSTCReconciliationNotification, ScanSTCReconciliationDelivery, ScanSTCReconciliationQueryRequest, ScanSTCReconciliationQueryResponse |
| 12/14/11 | 5.40 | | Added Complex Type: ScanSTCCount in support to ScanSTCReconciliation messages |
| 12/16/11 | 6.126 | mailXMLContainerType | Updated two fields in simpleType: mailXMLContainerTypeFrom:13 = OD Full Postal Paks14 = OD Half Postal PaksTo:13 = OD Full Pallet Box (Surface Only)14 = OD Half Pallet Box (Surface Only) |

**These are the changes from RIBBS Version 1.0.0 (Sept 30, 2011) to Version 1.1.0**

| Dates | Section | Title | Description |
|---|---|---|---|
| 11/10/2011 | | Section 5 – Mail.XML 11.0D Complex and Attribute Groups Definitions | Updated byForConflictType from s50 to string |
| 11/10/2011 | | Section 5 – Mail.XML 11.0D Complex and Attribute Groups Definitions | Updated ConsigneeApptID and CSADispatchNumber inside ContainerVisibilityQueryRequest |
| 11/07/2011 | All | Footer and Header | Updated footer and header |

**These are the changes from RIBBS Version 9.3.8 (Aug 9, 2011) for release 29 (Jan 8) to RIBBS Version 9.3.8 (Aug 9, 2011).**

These changes are being implemented to contribute to the goal of breaking down and editing the Postal Service Mail.XML technical specifications by Mail.XML supported versions to facilitate editing and enhance readability and navigation throughout the document.

In addition, to easier navigation, some sections such as the appendixes have been reorganized.

Previously the technical specifications were just divided by function (eDoc, Data Distribution, FAST). In that scheme, all supported Mail.XML for each release were all combined in one technical specification per function release. i.e. For Release 28 (November 2011) the Mail.XML eDoc technical specification included the supported Mail.XML versions 9.0B, 9.0C and 10.0C, as while the FAST technical specification containing Mail.XML 8.0B and 10.0 versions.

This approach resulted sometimes in bulky documents that became difficult to edit, manage or read as with documents mounting up to sometimes 1000 pages.

With the new editing process, the technical guides are edited focusing on the Mail.XML supported version per function.

For instance, the FAST guide supporting Mail.XML 8.0B and 10.0 versions will have two different sub-Technical specifications for Release 29 (January 2012).

Each technical specification will also group all Mail.XML version and their respective supported errata versions.

For instance, 9.0B and 9.0C supported in eDoc technical specification for Release 28 are combined in one document since they are errata for Mail.XML 9.0. However if Mail.XML 8.0B and 8.1 were supported, they would have been in two different documents since they are not of the same Mail.XML version.

By convention, Mail.XML version name containing a letter, such as 7.0C, 9.0B, 10.0A are considered errata. In contrast, Mail.XML 8.0 and 8.1 are considered two different versions.

| Date | Section | Title | Description |
|---|---|---|---|
| 09/29/2011 | All | | Replaced Mail.XML 11.0A by Mail.XML 11.0B throughout the document to update the version supported in January 2012. |
| 09/29/2011 | 4.0 | Mail.XML 11.0 Data Feedback and Profile Management and Miscellaneous Messages | Removed Full Service word from the highlighted four NonComplianceDataWithPostageOwed and NixieDetal messages to comply to reflect Mail.XML 11.0 requirements |


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| Date | Section | Title | Description |
|---|---|---|---|
| 9/07/2011 | 6.0 | Section 6 – Mail.XML 11.0B Simple Types Data Structure | Updated the rateCategoryType and DMLType, and mail.XMLContainerType based on Mail.XML 11.0B CRs as of 9/05/2011 |
| 9/01/2011 | | Change History | Added a new column “Date” to the table of Change History to record the dates of implemented changes. |
| 8/31/2011 | 5.0 | Appendix A | Added new headers to the tables of Complex and Attribute Data Types Data Structure for Mail.XML 10.0A |
| 8/31/2011 | 5.0 | Appendix A | Added new headers to the tables of Complex and Attribute Data Types Data Structure for Mail.XML 11.0B |
| 8/31/2011 | 4.0 | Mail.XML 11.0 Data Feedback and Profile Management and Miscellaneous Messages | Added headers to the table of Mail.XML 11.0B messages |
| 8/31/2011 | 4.0 | Mail.XML 11.0 Data Feedback and Profile Management and Miscellaneous Messages | Added headers to the table of Mail.XML 11.0B messages |
| 8/31/2011 | 5.0,6.0,7.0 | Section 5, B, C | Reorganized the appendixes order |
| 8/24/2011 | | Footer | Updated the footer to include USPS® – Postal Service Mail.XML 11.0B Technical Specification Version 1.0 |
| 8/24/2011 | All | | Extracted Mail.XML Technical Specification from the previous Data Distribution Technical Specification submitted on RIBBS on August 9, 2011 |


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