



Mail.XML 14.0 Technical Specification

MID-CRID

Document Version 1.0

Release 35 July 2013

February 22, 2013

Prepared by
United States Postal Service

Technical Support from the USPS Help Desk and Tier 2 Support:

The USPS provides Mail.XML technical support for mailers/vendors and support is only specific to the business rules it pertains to implementation of business transactions, error codes/descriptions and exception handling with the Mail.XML implementations.

The USPS does not provide nor it is equipped to provide technical support for software development tools or IDEs (Integrated Development Environments) like Visual Studio, and software development related activities as they pertain to different technology specific programming environments for different companies, such as .Net, Java, Visual Basic, Power Builder, C, C++ etc.

The Mailer/vendor is responsible for obtaining technical support and assistance directly from the IDE vendor such as Microsoft or IBM **or Sun/Oracle for software development related help needs.**

TABLE OF CONTENTS

| | |
|---|-----------|
| TABLE OF CONTENTS | 1 |
| DOCUMENT CHANGE HISTORY..... | 3 |
| 1. POSTAL SERVICE MAIL.XML..... | 4 |
| 1.1 Overview | 4 |
| 1.2 Purpose..... | 4 |
| 1.2.1 Document Scope | 4 |
| 1.3 Intended Audience | 4 |
| 1.4 What is Mail.XML? | 4 |
| 1.5 Roadmap of Mail.XML | 5 |
| 1.6 General XML and Web Services Information | 5 |
| 1.7 Environments Supported by USPS | 6 |
| 1.8 <i>PostalOne!</i> WSDL Information | 6 |
| 1.9 January 2012 Release New Features | 7 |
| 2. MID AND CRID APPLICATION PROCESS | 9 |
| 2.1 Requesting CRIDs using Mail.XML Web Services | 9 |
| 2.1.1 Preconditions: | 9 |
| 2.1.2 Process: | 9 |
| 2.1.3 USPS CRID Create Request Overview | 10 |
| 2.2 Requesting MIDs using Mail.XML Web Services | 10 |
| 2.2.1 Preconditions: | 10 |
| 2.2.2 Process: | 11 |
| 2.2.3 USPS MID Create Request | 11 |
| 3. MID AND CRID MAIL.XML MESSAGES OVERVIEW | 13 |
| 3.1 Overview | 13 |
| 3.2 Profile Management Messages Workflow | 13 |
| 3.3 Exceptions | 13 |
| 3.4 Fault Codes | 13 |
| 3.5 MID and CRID Error/Return Codes | 14 |
| 4. DATA STRUCTURE AND BUSINESS RULES FOR MAIL.XML 14.0 SPECIFICATION..... | 17 |
| 4.1 USPSMIDCreateValidateRequest | 17 |
| 4.2 USPSMIDCreateValidateResponse | 19 |
| 4.3 USPSCRIDCreateValidateRequest..... | 21 |
| 4.4 USPSCRIDCreateValidateResponse | 23 |
| 5. APPENDIX A – MAIL.XML 14.0 COMPLEX AND ATTRIBUTE GROUPS DEFINITIONS | 26 |

| | |
|---|-----------|
| 5.1 Complex Type: basicReturnInfo | 26 |
| 5.2 Complex Type: CRIDEntryType | 26 |
| 5.3 Complex Type: LegalAcknowledgmentBlockCRIDType | 28 |
| 5.4 Complex Type: LegalAcknowledgmentBlockMIDType | 31 |
| 5.5 Complex Type: LegalAcknowledgmentBlockMSPSType | 35 |
| 5.6 Complex: MidEntryType | 39 |
| 5.7 Complex: MIDType | 39 |
| 5.8 Complex Type: permitPublicationDataType | 40 |
| 5.9 Complex Type: SubmittingParty, participantIDType..... | 41 |
| 5.10 Complex Type: SubmittingSoftware | 41 |
| 5.11 Complex Type: VerificationErrorType..... | 41 |
| 6. APPENDIX B – SIMPLE TYPES DATA STRUCTURE..... | 43 |
| 6.1 simpleType: CRIDStatusType | 43 |
| 6.2 simpleType: CRIDType..... | 43 |
| 6.3 simpleType: EnrollingForSelf..... | 43 |
| 6.4 simpleType: mailerID6Type..... | 43 |
| 6.5 simpleType: mailerID9Type..... | 43 |
| 6.6 simpleType: midStatusType..... | 43 |
| 6.7 simpleType: ns04..... | 43 |
| 6.8 simpleType: ns05..... | 43 |
| 6.9 simpleType: ns09..... | 44 |
| 6.10 simpleType: permitTypeType | 44 |
| 6.11 simpleType: s12..... | 44 |
| 6.12 simpleType: s40..... | 44 |
| 6.13 simpleType: s50..... | 45 |
| 6.14 simpleType: s64..... | 45 |
| 6.15 simpleType: s260..... | 45 |
| 7. APPENDIX C - WSDLs AND XSDS..... | 46 |
| INDEX..... | 47 |

DOCUMENT CHANGE HISTORY

These are the changes from Mail.XML 12.0B MID-CRID Version 7.0 to Mail.XML 14.0 MID-CRID Version 1.0

| Date | Section # | Title | Description |
|---------|-----------|-----------------------------------|---|
| 2/20/13 | 4 | Data Structure and Business Rules | Updated the MID_CRID messages in the section 4 to conform to those in the mailxml_id_14.0.xsd |
| 2/20/13 | 1.5 | Roadmap Table | Updated roadmap table to indicate version that is scheduled to retire in April |
| 2/20/13 | | Table of Contents | Removed unwanted table of contents at the end of document |
| 2/20/13 | All | Footer | Updated version date in footer |
| 1/31/13 | 4.3 | USPSCRIDCreateValidateResponse | Updated CRID, CRIDstatus, and CRIDEntry in USPSCRIDCreateAccept from Required to Optional |
| 1/31/13 | 4.2 | USPSMIDCreateValidateResponse | Updated MID, MIDstatus, and MIDEntry in USPSMIDCreateAccept from Required to Optional |

1. Postal Service Mail.XML

1.1 Overview

The document describes the Mail.XML messages that can be used to apply for Mailer IDs (MIDs) or Customer Registration IDs (CRIDs) electronically for mailers and mail owners.

1.2 Purpose

The purpose of this Technical MID/CRID application process document is to supplement the Postal service Mail.XML technical guide for Data Distribution and profiles, so that specific focus can be given to the MID and CRID application process.

1.2.1 Document Scope

This document is divided into following sections:

- Section 1.0: This section provides an overview of the Mail.XML and also states the purpose of this document.
- Section 2.0: This section provides an overview of the Profile Management functionalities for MID and CRID application
- Section 3.0: This section provides technical information (Data Structure and Business Rules) for all messages supported in Mail.XML 14.0 specifications
- Section 4.0: This section provides technical information (Data Structure and Business Rules) for all messages supported in 14.0 specifications

1.3 Intended Audience

The intended audiences for this document are technical programmers and technical managers who have prior knowledge of XML language and Mail.dat. The majority of codes used in the Mail.XML base XSD come from the Postal Service Mail.dat specification, which describes the flags used by IDEAlliance.

1.4 What is Mail.XML?

Mail.XML™ is an XML-based IDEAlliance® (www.mailxml.org) specification for web services supporting the (SOA) Services Oriented Architecture that is conversational in nature and platform independent. Web Services uses simple HTTP(s) protocol to communicate data over the Internet, hence bypassing technology-specific restrictions and avoiding network-related security rules. Sound implementations of web services are safe, secure, platform-independent, support near real time communication, and increase efficiency of conducting business in most business environments.

More importantly, the Mail.XML allows business function-specific communication and faster change management processes with no impact to other service providers/ mailing environments within the mailing industry (you can add optional fields or new messages without requiring every software in the mailing supply chain to change), which has been a core improvement area for the Mail.dat® specification. Mail.XML is a complement to Mail.dat, where people using Mail.dat can continue to use it as a database, but will use Mail.XML for communication, automation of business to business processing, and getting answers in near real time from their business partners including the USPS.

The Mail.XML 14.0 functionality, when implemented in July 2014, provided four major business functions: eDoc messages, data distribution messages, profile management messages, and FAST scheduling messages. The focus of this document is profile management messages.

These Mail.XML-based business functions will surpass any functionality available today through any data interface with the USPS®. The IDEAlliance Mail.XML version 14.0 specification is composed of families of related messages that provide all the capability that Mail.dat specification provided, as well as business function support that Mail.dat did not provide. Business functions supported include ability to request data on Customer Registration ID (CRID), and Mailer ID (MID). The specification also provides the mailing

industry to conduct many business functions through near real time communication mechanisms specifically to support joint scheduling and transportation management communications.

All business functions supported by the USPS as part of the Mail.XML implementation are based upon SOA (Services Oriented Architecture). With this architecture, where mailer's software manages the data transactions for query, create, update, and cancel business functions as well as 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.

1.5 Roadmap of Mail.XML

The table below shows the roadmap of the Mail.XML versions - starting from currently supported versions to versions that will be supported in April 2013.

| Release/Date | Profile Management |
|--------------|---|
| January 2012 | V10.0 (Modular) and v11.0D** (Modular starting in January 2012) |
| April 2012 | V10.0 and V11.0D |
| June 2012 | V10.0* and V11.0D, V12.0A** |
| October 2012 | V11.0D, V12.0A, V12.0B** |
| January 2013 | V11.0D, V12.0A, V12.0B |
| April 2013 | V11.0D*, V12.0A, V12.0B |
| July 2013 | V12.0A, V12.0B, 14.0 |

Table 1-1 Roadmap of Mail.XML supported version per release

Note: The version(s) flagged with single asterisk () are version(s) being retired with the release date.*

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

The table below lists all Mail.XML Profiles Management messages for MIDs and CRIDs by Mail.XML 14.0

| Message Name | Supported in Mail.XML 14.0 |
|--------------------------------|----------------------------|
| USPSCRIDCreateValidateRequest | X |
| USPSCRIDCreateValidateResponse | X |
| USPSMIDCreate Request | X |
| USPSMIDCreateValidateResponse | X |

Table 1-2 Profiles Management Messages List for Mail.XML 14.0 Version

1.6 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 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 Services is a feature that converts your software into an internet-based software and publish 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>

1.7 Environments Supported by USPS

The USPS supports the following two environments for electronic file submissions.

TEM (Testing Environment for Mailers): This environment is used for authorization for all mailers prior to moving into the production environment. Mailers work with the help desk to start the approval process for their software, and will be approved in the TEM environment prior to sending Mail.XML data transactions in the production environment. The CRID and MID requests in the TEM environment utilize test data. Data entered for CRID and MID requests will impact the production data. Therefore it is requested that only a few CRID and a few MID requests be processed.

Production Environment: This environment is used by all customers that have been approved in the TEM send transactions/messages.

1.8 PostalOne! WSDL Information

All web services transactions that are made with the USPS should comply with the WSDL specification that are posted on RIBBS® and can be downloaded from the following location:

http://ribbs.usps.gov/intelligentmail_guides/documents/tech_guides/xmlspec/wsdl/wsdl.htm

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 downloadable files. A typical web service message construct defined is as follows:

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

With the following

String-typed WSDL:

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

XSD-typed WSDL:

```
<wsdl:message name="FullServiceStartTheClockQueryRequest">
  <wsdl:part element="uspsmxl:FullServiceStartTheClockQueryRequest"
    name="FullServiceStartTheClockQueryRequest"/>
</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.

Types of WSDLs

There are two types of WSDLs approach i.e. String-Type WSDL and Message-Type WSDL. Following is basic information on each of the WSDL type to help customer understand what are the advantages and disadvantages of consuming String Vs Message Type WSDL:

Consuming String-Type WSDLs

This method is more generalized, in which the customer needs to manually register each message type and register all services in their environment to later use for invoking the remote service. This is a manual process and cannot be automated easily, which is the major disadvantage of using this method. The advantage is that one string type WSDL can be used for any version of Mail.XML but it needs to be manually registered in the code. The USPS discontinued support for this string type as of the Mail.XML 9.0 implementation. After the Mail.XML 9.0 implementation, USPS moved strictly to the Message-Type WSDLs to help the industry.

Consuming Message-Type WSDLs

This method eliminates the need for manually registering each service and message type in the customer's environment. With this method, the customer can use an automated tool that can set up their environment without the hassle of 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 help the industry remove manual editing and registering of messages. USPS stopped supporting String-Type WSDLs as of the Mail.XML 9.0 release.

Customers must use message-type URLs to consume the services. These URLs are provided in Appendix C.

1.9 January 2012 Release New Features

The following are enhancements for the Mailer Identification (MID) tool starting with the January 2012 release:

- Implementation of the new USPS.com (Phoenix July 23 2011 Deployment) Style Sheet
- The ability to apply a Data Distribution Profile to multiple MIDs
- The ability to delegate editing or adding of an unassociated Full Service Address Change Service (ACS) billing profile to another Customer Registration Identification (CRID)
- Setting the default available MID count to 2 instead of 1

Mailer ID Tool (external facing pages) assumes the style sheet of the USPS.com look and feel from the Phoenix project deployed on July 23, 2011.

The MID system also allows external users to manage their Data Distribution profiles in bulk.

Once a user submits a new or updated Data Distribution profile for a given CRID, the MID system prompts the user if he would like to apply the same Data Distribution profile information to other MIDs in his profile.

If a user chooses to apply the Data Distribution profile information to other MIDs to be the recipient of the new or edited Data Distribution profile, the MID system allows the user to select one or any combination of MIDs associated with the user's CRID.

The section for MID selection in the MID system allows the user to apply Data Distribution profile information (one or any combinations) of MIDs associated with the user's CRID. The MID system also allows the user to select all MIDs.

The section for MID selection in the MID system contains the following fields:

- MID
- Customer Reference

In addition, the MID system allows the user to delegate a CRID to have the ability to edit or add unassociated Full Service ACS billing profile. In that scheme, all MIDs linked to the CRID have the same Full Service ACS billing profile.

MID Assignment

External users are allowed to request two MIDs without the system performing volume checks. Users are also able to request additional MIDs above the volume allotment.

Mailing Agents (or other third party, Mail Services providers (MSPs)) are allowed to request MIDs on behalf of their clients or mail owners.

Furthermore, the MID system allows a user to request up to two MIDs before it is required to verify mailing volumes.

Impact Assessment

The implementation of these features since January 2012 had increased the number of MIDs deployed to the production environment. These features tremendously improved the user experience of external mailers handling hundreds of MIDs Editing MID Data Distribution has since then become a streamlined process.

2. MID and CRID Application Process

This section covers the process that can be followed to process the creation of CRIDs and MIDs.

Note 1: *In order to use the USPS Web Services in the production environment all users must first complete the testing in the USPS TEM environment.*

Note 2: *It is recommended that no more than 20 CRIDEntry elements be specified in the USPSCRIDCreateValidateRequest message, and no more than 2 MIDEntry elements be specified in the USPSMIDCreateValidateRequest message. If the systems are not able to process the request within ten (10) seconds, a fault response is returned to the user with a Tracking Id that the user can use to retrieve the response at a later time.*

2.1 Requesting CRIDs using Mail.XML Web Services

This section covers the CRID request process using Mail.XML. This section is written to support those mailers/users who wish to request for multiple CRIDs in one message.

Note: *The MID and CRID Mail.XML requests are processed using the USPS production systems. Therefore, it is very important that the CRID and MID testing scenarios are successfully executed only one time. In order to avoid performance related issues, the Postal Service recommends that the CRID request sent in TEM or Production environment should have no more than twenty (20) CRID requests grouped in one message.*

2.1.1 Preconditions:

1. Review the TEM approval guide "Full-Service Data Feedback Authorization Guide for Mail.XML" located at RIBBS. This guide covers testing scenarios for the CRID and MID generation. Users are required to fill out the Survey form to identify that they wish to test CRID/MID functionality. Completing the survey forms will also initiate the process of mailer/user activation in the TEM (Test environment). Successful tests must be performed in the TEM environment in order to initiate activation in the production environment.
2. Addresses and Company names for TEM testing and real Production environments:
 - a. When testing in TEM environment, send test data for the CRID generation requests. The CRIDs generated in the TEM environment are also transmitted to the production environment. Company names that are made-up company names and addresses that do not belong to that facility should be used as test data. Note that the addresses for the CRIDs are matched against the USPS Address Management System Database (AMS) system, therefore, for the CRID request to work the addresses must be real addresses.
 - b. When requesting CRIDs in production environment, correct Company names and correct corresponding addresses should be used.
3. The requester will need one CRID and a Business Customer Gateway account to send this request.
4. The CRIDs can be requested for one's own organization, as well as, for a partner. The Mail.XML message requires the submitter to inform USPS if the request is "ApplyingForSelf" as a Yes or No indicator. Yes is translated as the request is for one's own organization, and No is translated as the request is for one's partner. In case No is selected, the Mail.XML Legal Acknowledgement block becomes required and submitter/agent must provide the full legal acknowledgement statement as defined in the sections below.

2.1.2 Process:

Note: *This section covers an overview of the CRID request process. For detailed Technical Specifications and to identify exactly what format the data is required and*

what field are required, please review the sections below labeled as “Data Structure and Business Rules for Mail.XML

1. Compile the list of addresses for the CRID with the required information as provided in this guide. For more information please review the section Prerequisites above.
2. Convert the list into compatible Mail.XML XSD verified form.
3. It is highly recommended that the requester sends only twenty (20) CRID addresses in one request. Multiple requests can be sent one after the other. For testing in the TEM environment we request that only one successful CRID Create Request be processed, as the CRIDs get transmitted to the Production environment. As for production multiple CRID Create Requests can be sent as needed, with no more than twenty (20) CRID requests in each.

2.1.3 USPS CRID Create Request Overview

Please refer to the USPSCRIDCreateValidateRequest section in this document for details on the required fields and the business logic. Below is a snapshot of this Mail.XML message; more details are listed in the sections below.

| Field | Sub Field | Format | Required |
|---------------------|-----------------------------|-----------------------|---|
| SubmittingParty | | | Required for system |
| Submitting Software | | | Required for system |
| CRIDEntry | | | |
| | Company Name | String 40 | Required |
| | Permit Publication Data | | Optional |
| | Company HQ Indicator | Yes or No simple type | Optional |
| | Address | | Required |
| | Address Match | Yes or No | Required |
| | Applying For Self | Yes or No | Required |
| | Legal Acknowledgement Block | | Conditional; required if ApplyingForSelf is set to “No” |

Table 2-1 USPS CRID Create Request Overview

2.2 Requesting MIDs using Mail.XML Web Services

This section covers the MID request process using Mail.XML. This section is written to support those mailers/users who wish to request many MIDs at the same time.

Note: *In order to avoid performance related issues, the Postal Service recommends that the MID request sent in TEM or Production environment should have no more than two (2) MIDEntry requests grouped in one message.*

2.2.1 Preconditions:

1. Review the TEM approval guide “Full-Service Data Feedback Authorization Guide for Mail.XML” located on RIBBS. This guide covers testing scenarios for the CRID and MID generation. Users are required to fill out the survey form to identify that they wish to test CRID/MID functionality. Completing the survey forms will also initiate the process of mailer/user activation in the TEM (Test environment). Successful tests must be performed in the TEM environment in order to initiate activation in the production environment.

2. Addresses and Company names for TEM testing and real Production environments:
 - a. When testing in the TEM environment, send test data for the CRID generation requests. The MIDs generated in the TEM environment are also transmitted to the production environment. Company names that are made up company names and addresses that do not belong to that facility should be used as test data. Note that the addresses for the CRIDs are matched against the USPS Address Management System Database (AMS) system; therefore, for the MID request to work the addresses must be real addresses.
 - b. When requesting MIDs, the production environment, correct company names and correct corresponding addresses should be used.
3. The requester will need one MID and a Business Customer Gateway account to send this request.
4. The MIDs can be requested for one's own organization, as well as for a partner. The Mail.XML message requires the submitter to inform USPS if the request is "ApplyingForSelf" via use of a Yes or No indicator. "Yes" is translated as meaning the request is for one's own organization, and "No" is translated as meaning the request is for one's partner. In case "No" is selected, the Mail.XML Legal Acknowledgement block becomes required and submitter/agent must provide the full legal acknowledgement statement as defined in the sections below.

2.2.2 Process:

Note: This section covers an overview of the MID request process. For detailed technical specifications and to identify the exact data format the required fields, please review the sections "Data Structure and Business Rules for Mail.XML"

1. Compile the list of MID information and addresses with the required information as provided in this guide.

Note: In the TEM environment only dummy addresses and dummy company names must be used. You must not use real data in TEM as it will cause that data to be transmitted to the production CRID / MID system.
2. Convert the list into compatible Mail.XML XSD verified form.
3. It is highly recommended that the requester sends only two (2) MID addresses in one Mail.XML MID Create Request message. Multiple MID requests can be sent one after the other. For testing in the TEM environment USPS requests that only one successful MID Create Request be processed, as the MIDs get transmitted to the Production environment. In the production environment, multiple MID Create Requests can be sent as needed, with no more than two (2) MID requests in each.

2.2.3 USPS MID Create Request

Please refer to the USPSMIDCreateValidateRequest section in this document for details on the required fields and the business logic. Below is a snapshot of this Mail.XML message.

| Field | Sub-Field | Format | Required |
|--------------------|---------------------------|---|--|
| SubmittingParty | | | Required |
| SubmittingSoftware | | | Required |
| MIDEntry | | | Required |
| | CustomerCRID | CRIDType simple type | Required |
| | ApplyingForSelf | yesNo simple type | Required |
| | LegalAcknowledgment Block | legalAcknowledgementBlockMIDType complex type | Conditional; required if ApplyingForSelf is set to |

| | | | |
|--|--|--|------|
| | | | "No" |
|--|--|--|------|

3. MID and CRID Mail.XML Messages Overview

3.1 Overview

As part of the Mail.XML 14.0 Web Services messages, USPS will allow mailers with the capability to manage their corporate identification.

Following is the list of messages supported in Mail.XML 14.0 Specification with their description and details on each of these messages:

| Message Name | Message Description |
|--------------------------------|---|
| USPSMIDCreateValidateRequest | This message will allow Mailers to request the <i>PostalOne!</i> System to create the Mailer ID (MID), if one already exists, USPS responds with the existing MID. |
| USPSMIDCreateValidateResponse | This is a response message that notifies the requestor whether the request for creating the MID has been accepted or rejected. If the request is accepted then the MID will be sent back to mailer in the response message |
| USPSCRIDCreateValidateRequest | This message will allow mailers to request the <i>PostalOne!</i> System to create the CRID for their corporation, if one already exists, USPS responds with the existing CRID. |
| USPSCRIDCreateValidateResponse | This is a response message that informs the requestor whether the request for creating the CRID has been accepted or rejected. If the request is accepted then the CRID will be sent back to the mailer in the response message |

Table 3-1 Profile Management Messages Supported in Mail.XML 14.0

3.2 Profile Management Messages Workflow

All messages in Profile Management families follows Pull method where user sends a request and expects to receive a response whether with the data or error/return code that is returned to the user.

There is no order by which user must request or send messages. User can request CRID or MID creation messages without any order.

3.3 Exceptions

Following is the list of exceptions identified by USPS.

| Mail.XML Version | Exception Description |
|----------------------|--|
| 12.OA,12.0B and 14.0 | The customer should not zero pad their MID and CRID ID's |

Table 3-2 List of exceptions identified by USPS

3.4 Fault 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 all of the Error/Return Codes listed below are supported in Mail.XML 14.0

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 | Messages |
|------|---------------------|-------------------------------|
| 402 | Not Well Formed XML | Fault (All Mail.XML Messages) |

| Code | Description | Messages |
|------|---|-------------------------------|
| 403 | Validation Failure – {specific error message thrown by parser} | Fault (All Mail.XML Messages) |
| 412 | Unauthorized – Required SubmittingParty | Fault (All Mail.XML Messages) |
| 412 | Unauthorized – User does not have access to specified SubmittingParty | Fault (All Mail.XML Messages) |
| 412 | Unauthorized – User does not have access to “Manage Mailing Activity” service | Fault (All Mail.XML Messages) |
| 412 | Unauthorized - Invalid user ID | Fault (All Mail.XML Messages) |
| 412 | Unauthorized - Invalid user password | Fault (All Mail.XML Messages) |
| 412 | Unauthorized - Account disabled | Fault (All Mail.XML Messages) |
| 412 | Unauthorized - Maximum password retries reached | Fault (All Mail.XML Messages) |
| 412 | Unauthorized - Profile not found | Fault (All Mail.XML Messages) |
| 440 | Sorry - Mail.XML version is not supported | Fault (All Mail.XML Messages) |
| 500 | Generic Internal Responder Error | Fault (All Mail.XML Messages) |
| 500 | Your request has been accepted for processing by USPS. Use the attached Tracking ID with a MessageResponseRetrievalRequest message to get the status of your request. | Fault (All Mail.XML Messages) |
| 500 | Generic Internal Responder Error (Authentication Service Failed) | Fault (All Mail.XML Messages) |
| 503 | Not Implemented - Mail.XML message received is not supported (MessageName) | Fault (All Mail.XML Messages) |

Table 3-3 Fault Codes

3.5 MID and CRID Error/Return Codes

Below is the list of the return codes that the *PostalOne!* system will communicate to the customer in response to the MID/CRID Create request messages to indicate the success or the failure of the request. These error/return codes are applicable to Mail.XML 14.0 versions.

| Code | Description | Messages |
|------|---|--------------------------------|
| 5000 | FULLSERVICE-EDOC: REQUEST SERVED SUCCESSFULLY. | USPSCRIDCreateValidateResponse |
| 5001 | FULLSERVICE-EDOC: Not Valid Schema. | USPSCRIDCreateValidateResponse |
| 5007 | FULLSERVICE-EDOC: Internal System error message. Please contact <i>PostalOne!</i> Help Desk | USPSCRIDCreateValidateResponse |
| 5008 | FULLSERVICE-EDOC: Empty Message. Please Contact <i>PostalOne!</i> Help Desk. | USPSCRIDCreateValidateResponse |
| 5009 | FULLSERVICE-EDOC: Request is not XML Message. Please Contact <i>PostalOne!</i> Help Desk. | USPSCRIDCreateValidateResponse |
| 5012 | FULLSERVICE-EDOC: 'LegalAcknowledgementBlock' must be specified when 'ApplyingForSelf' is 'No'. | USPSCRIDCreateValidateResponse |
| 5013 | FULLSERVICE-EDOC: 'LegalAcknowledgementBlock > UnderstandLegalLiabilityForApplyingForSomeoneElse' must be 'Yes' when 'ApplyingForSelf' is 'No'. | USPSCRIDCreateValidateResponse |

| Code | Description | Messages |
|------|---|--------------------------------|
| 5014 | FULLSERVICE-EDOC: 'LegalAcknowledgementBlock > AcknowledgeNotifyingTheMailOwner' must be 'Yes' when 'ApplyingForSelf' is 'No' | USPSCRIDCreateValidateResponse |
| 5015 | FULLSERVICE-EDOC: The text in the 'USPSLegalAgreement' element does not match the text defined in the Mail.XML specification. | USPSCRIDCreateValidateResponse |
| 5017 | FULLSERVICE-EDOC: The address provided is not a valid USPS address | USPSCRIDCreateValidateResponse |
| 5018 | FULLSERVICE-EDOC: Multiple locations were found for the given address. Please be more specific with the address you provide so that it maps to a single location. | USPSCRIDCreateValidateResponse |

Table 3-4 CRID Error/Return Codes

| Code | Description | Messages |
|------|---|-------------------------------|
| 5000 | FULLSERVICE-EDOC: REQUEST SERVED SUCCESSFULLY. | USPSMIDCreateValidateResponse |
| 5001 | FULLSERVICE-EDOC: Not Valid Schema. | USPSMIDCreateValidateResponse |
| 5007 | FULLSERVICE-EDOC: Internal System error message. Please contact <i>PostalOne!</i> Help Desk | USPSMIDCreateValidateResponse |
| 5008 | FULLSERVICE-EDOC: Empty Message. Please Contact <i>PostalOne!</i> Help Desk. | USPSMIDCreateValidateResponse |
| 5009 | FULLSERVICE-EDOC: Request is not XML Message. Please Contact <i>PostalOne!</i> Help Desk. | USPSMIDCreateValidateResponse |
| 5012 | FULLSERVICE-EDOC: 'LegalAcknowledgementBlock' must be specified when 'ApplyingForSelf' is 'No'. | USPSMIDCreateValidateResponse |
| 5013 | FULLSERVICE-EDOC: 'LegalAcknowledgementBlock > UnderstandLegalLiabilityForApplyingForSomeOneElse' must be 'Yes' when 'ApplyingForSelf' is 'No'. | USPSMIDCreateValidateResponse |
| 5014 | FULLSERVICE-EDOC: 'LegalAcknowledgementBlock > AcknowledgeNotifyingTheMailOwner' must be 'Yes' when 'ApplyingForSelf' is 'No'. | USPSMIDCreateValidateResponse |
| 5015 | FULLSERVICE-EDOC: The text in the 'USPSLegalAgreement' element does not match the text defined in the Mail.XML specification. | USPSMIDCreateValidateResponse |
| 5016 | FULLSERVICE-EDOC: The specified 'CustomerCRID' could not be found. | USPSMIDCreateValidateResponse |

Table 3-5 MID Error/Return Codes

4. Data Structure and Business Rules for Mail.XML 14.0 Specification

The section below spells out the business rules and data structure for each of the MID and CRID messages that will be supported in the Mail.XML 14.0 specification

4.1 USPSMIDCreateValidateRequest

The purpose of this message is to send a request for creating Mailer ID

Prerequisites

- Mailer requests the creation of one or more MIDs.
- Mailer passes in the following information at a minimum per MID requested (information must be repeated for each MID requested):
 - o CRID
 - o ApplyingForSelf
- The *PostalOne!* system will provide feedback to the mailer using USPSMIDCreateValidateResponse Message

If successful:

- Response is returned to mailer
- Response will include per MID requested:
 - o One 9-digit MID if newly created
 - o One or more MIDs if existing

If not successful:

- Response is returned to mailer:
- Response will indicate the problem per MID requested

Business Rules

For each USPSMIDCreateValidateRequest message, the customer needs to provide the information for all of the required blocks.

- Submitting Party
- Submitting Software
- SubmitterTrackingID

The *PostalOne!* system for each Mail.XML message submitted uses the combination of message name, the SubmitterTrackingID, User ID, and the Mail.XML application generated variables of TrackingID and RequestReceived to check if the message has already been processed in the last 45 days. If the message was already processed then *PostalOne!* shall consider the request as a duplicate request and in this case the system shall send the Response that was processed for the previous request. In this case the system adds a Warning message in the Accept block notifying the submitter that the request was a duplicate request.

The *PostalOne!* system will implement the new identifier "SubmitterTrackingID" that will be made part of all Mail.XML Request headers. This SubmitterTrackingID allows for the submitter of the request to uniquely identify one message from the other and to assist with identifying duplicate requests. The system shall handle this process for all Mail.XML Request messages including messages for eDoc, FAST, Data Distribution and MID/CRID generation.

- Customer CRID

- Customer Name (Optional)
- Optional to provide Permit Info
- Company HQ Indicator – The accepted values are ‘Yes’ or ‘No’ (Optional)
- Address Information (optional)
- Sequence Number (Optional)
- Applying for Self Indicator. Accepted values are ‘Yes’ or ‘No’ – Required
- Legal Acknowledgment - Required to provide Legal Acknowledgment Block when Self Indicator is “No.” This block requires following info:
 - o UnderstandLegalLiabilityForApplyingForSomeOneElse
 - o AcknowledgementNotifyingTheMailOwner
 - o USPSLegalAgreement

Field Description

| Field | Format | Acceptable Value | Business Rules | Comments |
|---|---|------------------|--------------------|---|
| USPSMIDCreateValidate Request BEGINS | | | | |
| SubmittingParty | participantIDType complex type | - | Required | SubmittingParty attributes not required by XSD, but CRID attribute in SubmittingParty is required by application to validate the user Refer to this complex type in Appendix A |
| SubmittingSoftware | submittingSoftwareType complex type | - | Required | Refer to this complex type in Appendix A |
| SubmitterTrackingID | String 20 | | Required | Refer to this simple type in Appendix B |
| MIDEntry | midEntryType complex type | - | Required 1 to many | See below for details on midEntryType |
| midEntryType BEGINS | | | | |
| CustomerCRID | CRIDType simple type | - | Required | Refer to this simple type in Appendix B |
| CustomerName | String | | Optional | |
| PermitPublicationData | permitPublicationData Type complex type | - | Optional | Refer to this complex type in Appendix A |

| Field | Format | Acceptable Value | Business Rules | Comments |
|---|--|------------------|---|--|
| CompanyHQIndicator | yesNo simple type | - | Optional | Refer to this simple type in Appendix B |
| Address1 | String 64 | | Optional | |
| Address2 | String 64 | | Optional | |
| City | String 50 | | Optional | |
| State | String 2 | | Optional | |
| ZipCode | Numeric String 5 | | Optional | |
| SequenceNumber | Integer | | Optional | |
| ApplyingForSelf | yesNo simple type | - | Required | Refer to this simple type in Appendix B |
| LegalAcknowledgmentBlock | legalAcknowledgmentBlockMIDType complex type | - | Conditional ; Required when ApplyingForSelf is "No" | Refer to this complex type in Appendix A |
| midEntryType ENDS | | | | |
| USPSMIDCreateValidate Request ENDS | | | | |

4.2 USPSMIDCreateValidateResponse

The message is sent by USPS to customer in response to MID Create request

Prerequisites

- Mailer requests the creation of one or more MIDs.
- Mailer passes in the following information at a minimum per MID requested (information must be repeated for each MID requested):
 - o CRID
 - o ApplyingForSelf
- *PostalOne!* will provide feedback to the mailer using USPSMIDCreateValidateResponse Message

If successful:

- Response is returned to mailer
- Response will include per MID requested:
 - o One 9-digit MID if newly created
 - o One or more MIDs if existing

If not successful:

- Response is returned to mailer
- Response will indicate the problem per MID requested

Business Rules

Note: The USPSMIDCreateValidateResponse message returns one of the two messages block i.e. MID Accepted or MID Reject Block.

- In ACCEPT block
 - o Returns all of the data blocks/elements that were sent in the USPSMIDCreateValidateRequest message AND
 - o MID information, which is either MID6 or MID9 AND
 - o OPTIONAL return info block that contains return code and return description
- in REJECT block
 - o Returns all of the data blocks/elements that were sent in the USPSMIDCreateValidateRequest message AND
 - o REQUIRED return info block that contains return code and return description to communicate the issue

Field Description

| Field | Format | Acceptable Value | Business Rules | Comments |
|---|------------------------------|------------------|--|--|
| USPSMIDCreateValidateResponse BEGINS | | | | |
| TrackingID | String 20 | - | Optional Allows the user to retrieve the data without requiring | |
| SubmitterTrackingID | String 20 | | Required | Refer to this simple type in Appendix B |
| Choice Block BEGINS | | | 1 to many allowed Either Accept or Reject block is returned | |
| USPSMIDCreateAccept Block BEGINS | | | | |
| MID | MIDType complex type | - | Optional | Refer to this complex type in Appendix A |
| MIDStatus | midStatus Type simple type | - | Optional | Refer to this simple type in Appendix B |
| MIDEntry | midEntryType complex type | - | Optional | Refer to this complex type in Appendix A |
| ReturnInfo | basicReturnInfo complex type | | Optional | Refer to this complex type in Appendix A |

| Field | Format | Acceptable Value | Business Rules | Comments |
|---|--|------------------|----------------|--|
| RelatedPermitPublicationData | mailxml_defs:permitPublicationDataType | | Optional | Refer to this complex type in Appendix A |
| USPSMIDCreateAccept Block ENDS | | | | |
| USPSMIDCreateReject Block BEGINS | | | | |
| MIDEntry | midEntryType complex type | - | Required | Refer to this complex type in Appendix A |
| ReturnInfo | basicReturnInfo complex type | - | Required | Refer to this complex type in Appendix A |
| USPSMIDCreateReject Block ENDS | | | | |
| Choice Block ENDS | | | | |
| USPSMIDCreateValidateResponse ENDS | | | | |

4.3 USPSCRIDCreateValidateRequest

The purpose of this message is to send a request for creating Mailer CRIDs

Prerequisites

- Mailer requests the creation of one or more CRIDs using USPSCRIDCreateValidateRequest Message.
- Mailer passes the required information per CRID requested
- The *PostalOne!* system provides feedback to the mailer using USPSCRIDCreateValidateResponse Message

If successful:

- Response is returned to mailer
- Response will indicate whether the included CRID is new or existing
- There will always be exactly one CRID returned for a given CRID requested

If not successful:

- o Response is returned to mailer:
- o Response will indicate the problem per CRID requested

Business Rules

For each USPSCRIDCreateValidateRequest message, the customer needs to provide the information for all of the required blocks.

- Submitting Party
- Submitting Software
- SubmitterTrackingID
- Company Name

- Permit Publication Block (Optional) that must provide information for the following required elements:
 - o Permit Number and PermitZip4 OR
 - o Publication Number
- Company HQ indicator. The accepted values are ‘Yes’ or ‘No’
- Address Information block that must provide information for the required elements. Only AMS matched addresses will be processed for CRIDs. Mailers are requested to verify if the addresses are cleansed and can be matched in the AMS system.
 - o Address 1
 - o City
 - o State
 - o Zip Code
- Address Match Indicator. The accepted values are ‘Yes’ or ‘No’
- Applying for Self indicator. The accepted values are ‘Yes’ or ‘No’
- Required to provide Legal Acknowledgment block when ‘Self Indicator’ is No. The block requires following information
 - o UnderstandLegalLiabilityForApplyingForSomeOneElse. The accepted values are ‘Yes’ or ‘No’.
 - o AcknowledgeNotifyingTheMailOwner. The accepted values are ‘Yes’ or ‘No’
 - o USPSLegalAgreement. This field contains the USPS legal agreement by default.

The *PostalOne!* system for each Mail.XML message submitted uses the combination of message name, the SubmitterTrackingID, User ID, and the Mail.XML application generated variables of TrackingID and RequestReceived to check if the message has already been processed in the last 45 days. If the message was already processed then The *PostalOne!* system shall consider the request as a duplicate request and in this case the system shall send the Response that was processed for the previous request. In this case the system adds a Warning message in the Accept block notifying the submitter that the request was a duplicate request.

The *PostalOne!* system will implement the new identifier “SubmitterTrackingID” that will be made part of all Mail.XML Request headers. This SubmitterTrackingID allows for the submitter of the request to uniquely identify one message from the other and to assist with identifying duplicate requests. The system shall handle this process for all Mail.XML Request messages including messages for eDoc, FAST, Data Distribution and MID/CRID generation.

Field Description

| Field | Format | Acceptable Value | Business Rules | Comments |
|--------------------|--|------------------|----------------|---|
| SubmittingParty | participantID Type complex type | - | Required | SubmittingParty attributes not required by XSD, but SumitingParty is required by application to validate the user Refer to this complex type in Appendix A |
| SubmittingSoftware | submittingSoftwareType complex type | - | Required | Refer to this complex type in Appendix A |

| Field | Format | Acceptable Value | Business Rules | Comments |
|-----------------------------|--|------------------|---|--|
| SubmitterTrackingID | String 20 | | Required | Refer to this simple type in Appendix B |
| CRIDEntry | CRIDEntryType complex type | - | Required 1 to many allowed | See below details for CRIDEntryType |
| CRIDEntryType BEGINS | | | | |
| CompanyName | String 40 | | Required | - |
| PermitPublicationData | permitPublicationDataType complex type | - | Optional | Refer to this complex type in Appendix A |
| CompanyHQIndicator | yesNo simple type | - | Optional | Refer to this simple type in Appendix B |
| Address | addressType complex type | - | Required | Refer to this complex type in Appendix A |
| AddressMatch | yesNo simple type | - | Required | Refer to this simple type in Appendix B |
| ApplyingForSelf | yesNo simple type | - | Required | Refer to this simple type in Appendix B |
| LegalAcknowledgementBlock | legalAcknowledgementBlockCRIDtype complex type | - | Conditional; Required when ApplyingForSelf is "No" | Refer to this complex type in Appendix A |
| CRIDEntryType ENDS | | | | |

4.4 USPSCRIDCreateValidateResponse

This message is sent by USPS to customer with the CRID number.

Prerequisites

- Mailer requests the creation of one or more CRIDs using USPSCRIDCreateValidateRequest Message.
- Mailer passes the required information per CRID requested
- *PostalOne!* provides feedback to the mailer using USPSCRIDCreateValidateResponse Message

If successful:

- Response is returned to mailer
- Response will indicate whether the included CRID is new or existing
- There will always be exactly one CRID returned for a given CRID requested

If not successful:

- Response is returned to mailer:
- Response will indicate the problem per CRID requested

Business Rules

The USPSCRIDCreateValidateResponse message returns one of the two messages block i.e. MID Accepted or MID Reject Block.

- In ACCEPT block
 - o Returns all of the data blocks/elements that were sent in the USPSCRIDCreateValidateRequest message AND
 - o CRID number AND
 - o OPTIONAL return info block that contains return code and return description to communicate the issues
- In REJECT block
 - o Returns all of the data blocks/elements that were sent in the USPSCRIDCreateValidateRequest message AND
 - o REQUIRED return info block that contains return code and return description to communicate the issue

Field Description

| Field | Format | Acceptable Value | Business Rules | Comments |
|--|-----------------------------|------------------|--|--|
| USPSCRIDCreateValidateResponse BEGINS | | | | |
| TrackingID | String 20 | - | Optional Allows the user to retrieve the data without requiring it. | |
| SubmitterTrackingID | String 20 | | Required | Refer to this simple type in Appendix B |
| Choice Block BEGINS | | | Required 1 to many allowed. Either QueryResults or QueryError block is returned | |
| USPSCRIDCreateAccept BEGINS | | | Required | |
| CRID | CRIDType | - | Required | Refer to this simple type in Appendix B |
| CRIDStatus | cRIDStatus Type simple type | - | Required | Refer to this simple type in Appendix B |
| CRIDEntry | cridEntryType complex type | - | Required | Refer to this complex type in Appendix A |

| Field | Format | Acceptable Value | Business Rules | Comments |
|--|---|------------------|----------------|--|
| ReturnInfo | basicReturnInfo complex type | - | Optional | Refer to this complex type in Appendix A |
| RelatedPermitPublicationData | mailxml_defs:permitPublicationData Type | | Optional | Refer to this complex type in Appendix A |
| USPSCRIDCreateAccept Block ENDS | | | | |
| USPSCRIDCreateReject Block BEGINS | | | | |
| CRIDEntry | cridEntryType complex type | | Required | Refer to this complex type in Appendix A |
| ReturnInfo | basicReturnInfo complex type | | Required | Refer to this complex type in Appendix A |
| USPSCRIDCreateReject Block ENDS | | | | |
| USPSCRIDCreateValidateResponse ENDS | | | | |

5. Appendix A – Mail.XML 14.0 Complex and Attribute Groups Definitions

5.1 Complex Type: basicReturnInfo

| Field | Format | Acceptable Values | Business Rules | Comments |
|------------------------------|---|-------------------|-------------------------------|--|
| Sequence Block BEGINS | | | Optional 0 to many allowed | |
| Return Code | Numeric String – Length 4 | - | Optional | |
| Return Description | String, Length 260 | - | Required | |
| ContainerErrorWarning Block | containerErrorWarningBlockType complex type | - | Optional | Refer to this complex type in Appendix A |
| Sequence Block ENDS | | | | |

5.2 Complex Type: CRIDEntryType

| Field | Format | Acceptable Value | Business Rules | Comments |
|-----------------------------|--|------------------|--|--|
| CRIDEntryType BEGINS | | | | |
| CompanyName | String 40 | | Required | - |
| PermitPublicationData | permitPublicationDataComplexType complex type | - | Optional | Refer to this complex type in Appendix A |
| CompanyHQIndicator | yesNo simple type | - | Optional | Refer to this simple type in Appendix B |
| Address | addressType complex type | - | Required | Refer to this complex type in Appendix A |
| AddressMatch | yesNo simple type | - | Required | Refer to this simple type in Appendix B |
| ApplyingForSelf | yesNo simple type | - | Required | Refer to this simple type in Appendix B |
| LegalAcknowledgement Block | legalAcknowledgementBlockCRIDType complex type | - | Conditional ; required when ApplyingForSelf is set to No | Refer this complex type in Appendix A |
| CRIDEntryType BEGINS | | | | |

5.3 Complex Type: LegalAcknowledgmentBlockCRIDType

| Field | Format | Acceptable Value | Business Rules | Comments |
|---|-------------------|------------------|---|---|
| LegalAcknowledgementBlockCRIDType BEGINS | | | | |
| UnderstandLegalLiabilityForApplyingForSomeOneElse | yesNo simple type | - | Required | Refer to this simple type in Appendix B |
| AcknowledgeNotifyingTheMailOwner | yesNo simple type | - | Required | Refer to this simple type in Appendix B |
| USPSLegalAgreement | String | | <p>Required</p> <p>This Declaration pertains to the Mail Service Provider service that allows authorized Mail Service Providers to register with the United States Postal Service (USPS) to receive, apply, and use USPS system identification numbers on behalf of a Mail Owner. - a. A Mail Service Provider (MSP), hereafter known as Mailing Agent, is a company or entity that performs one or more of the following functions on behalf of other companies or organizations: designs, creates, prepares, processes, sorts, or otherwise prepares postcards, letters, flats or packages for acceptance and delivery by the Postal Service.- b. A Mail Owner is defined as a company that has authorized a Mail Service Provider to act as its Mailing Agent with the USPS, and to perform Mailing Services on its behalf using the Mail Owner's Mailer ID/Customer Registration ID or other USPS system identification number in the Mail Owner's name.- c. USPS system identification numbers include but are not limited to Mailer ID (MID) and Customer Registration ID (CRID). A CRID is a unique number for a Mail Owner or Mailing</p> | |

| Field | Format | Acceptable Value | Business Rules | Comments |
|-------|--------|------------------|--|----------|
| | | | <p>Agent at an address and is normally assigned when a Mail Owner or Mailing Agent applies online with the Postal Service through the Business Customer Gateway. - d. By/For reflects the relationship between the Mail Owner and Mailing Agent where typically the By field identifies the Mailing Agent and the For field identifies the Mail Owner. - e. A MID is a six-digit or nine-digit unique number which the USPS assigns to a Mail Owner or Mailing Agent for use in the Intelligent Mail barcodes to identify the Mail Owner or Mailing Agent. A MID is used to send information to the Mail Owner or Mailing Agent associated with the Mailer ID regarding Intelligent Mail mailing and shipping, and is normally assigned when a Mail Owner or Mailing Agent applies online with the USPS through the Business Customer Gateway. - f. A Business Service is defined as an online business function accessed through the Business Customer Gateway at gateway.usps.com, hereafter known as Business Services. - g. I, the Mailing Agent, declare to the USPS that I have been authorized by my Mail Owner(s) to act as their Mailing Agent with the USPS and obtain the Business Services requested for business mailing matters on their behalf. - h. The Mailing Agent acknowledges that it has informed its Mail Owner customer(s), via electronic or paper communication, that: - i. 1. The Mail Owner remains responsible for all actions performed by its Mailing Agent with respect to its</p> | |

| Field | Format | Acceptable Value | Business Rules | Comments |
|-------|--------|------------------|--|----------|
| | | | <p>Mailer IDs, CRIDs or other USPS system identification numbers and Business Services; - j. 2. The Mail Owner can obtain details or ask questions from the USPS regarding its USPS system identification numbers and/or access to their information online at gateway.usps.com; and - k. 3. When the Delegate Management option for an USPS system identification numbers has been requested, the management of the USPS system identification numbers or Business Services access obtained on their behalf will be delegated to the Mailing Agent company and that this delegation may be revoked by the Mail Owner at any time. - l. The Mailing Agent declares, that: - m. 1. It has reviewed the terms and conditions, as outlined in the Guide to Intelligent Mail Letters and Flats regarding mailer identification (By/For) relationship information with all Mail Owners for whom the customer identification numbers or business services have been requested; and/or - n. It has reviewed the terms and conditions, as outlined in Publication 199 Intelligent Mail Package Barcode (IMpb) Implementation Guide for Confirmation Services and Electronic Verification System (eVS) Mailers and Publication 205 Electronic Verification System (eVS) Business and Technical Guide regarding use of the CRIDs, MID and other USPS identification numbers; - o. 2. It has advised and provided its Mail Owner the requisite information that is provided by the USPS including but not limited to USPS</p> | |

| Field | Format | Acceptable Value | Business Rules | Comments |
|--|--------|------------------|--|----------|
| | | | documentation on products and services defined in the Mailing Standards of the United States Postal Service (Domestic Mail Manual and International Mail Manual), technical specifications and guides, Postal Bulletins and Federal Register Notices; - p. 3. It has provided its Mail Owner the requisite information regarding pricing programs which includes but is not limited to incentive programs, contractual pricing the promotional campaign marketing material; work share discounts policies, participation and eligibility rules as defined in Federal Register Notices filed by Product Classification of the USPS; and - q. 4. My Mail Owner has provided this authorization in writing and will produce such authorization upon request to the USPS or the United States Postal Inspection Service (or their agent). - r. | |
| LegalAcknowledgementBlockCRIDType ENDS | | | | |

5.4 Complex Type: LegalAcknowledgmentBlockMIDType

| Field | Format | Acceptable Value | Business Rules | Comments |
|---|-------------------|------------------|---|---|
| LegalAcknowledgmentBlockMIDType BEGINS | | | | |
| UnderstandLegalLiabilityForApplyingForSomeOneElse | yesNo simple type | - | Required | Refer to this simple type in Appendix B |
| AcknowledgeNotifyingTheMailOwner | yesNo simple type | - | Required | Refer to this simple type in Appendix B |
| USPSLegalAgreement | String | | Required This Declaration pertains to the Mail Service Provider service that allows authorized | - |

| Field | Format | Acceptable Value | Business Rules | Comments |
|-------|--------|------------------|---|----------|
| | | | <p>Mail Service Providers to register with the United States Postal Service (USPS) to receive, apply, and use USPS system identification numbers on behalf of a Mail Owner. - a. A Mail Service Provider (MSP), hereafter known as Mailing Agent, is a company or entity that performs one or more of the following functions on behalf of other companies or organizations: designs, creates, prepares, processes, sorts, or otherwise prepares postcards, letters, flats or packages for acceptance and delivery by the Postal Service.- b. A Mail Owner is defined as a company that has authorized a Mail Service Provider to act as its Mailing Agent with the USPS, and to perform Mailing Services on its behalf using the Mail Owner's Mailer ID/Customer Registration ID or other USPS system identification number in the Mail Owner's name.- c. USPS system identification numbers include but are not limited to Mailer ID (MID) and Customer Registration ID (CRID). A CRID is a unique number for a Mail Owner or Mailing Agent at an address and is normally assigned when a Mail Owner or Mailing Agent applies online with the Postal Service through the Business Customer Gateway. - d. By/For reflects the relationship between the Mail Owner and Mailing Agent where typically the By field identifies the Mailing Agent and the For field identifies the Mail Owner. - e. A MID is a six-digit or nine-digit unique number which the USPS assigns to a Mail Owner or Mailing Agent for use in the Intelligent Mail barcodes to</p> | |

| Field | Format | Acceptable Value | Business Rules | Comments |
|-------|--------|------------------|--|----------|
| | | | <p>identify the Mail Owner or Mailing Agent. A MID is used to send information to the Mail Owner or Mailing Agent associated with the Mailer ID regarding Intelligent Mail mailing and shipping, and is normally assigned when a Mail Owner or Mailing Agent applies online with the USPS through the Business Customer Gateway. - f. A Business Service is defined as an online business function accessed through the Business Customer Gateway at gateway.usps.com, hereafter known as Business Services.</p> <p>- g. I, the Mailing Agent, declare to the USPS that I have been authorized by my Mail Owner(s) to act as their Mailing Agent with the USPS and obtain the Business Services requested for business mailing matters on their behalf. - h. The Mailing Agent acknowledges that it has informed its Mail Owner customer(s), via electronic or paper communication, that: - i. 1. The Mail Owner remains responsible for all actions performed by its Mailing Agent with respect to its Mailer IDs, CRIDs or other USPS system identification numbers and Business Services; - j. 2. The Mail Owner can obtain details or ask questions from the USPS regarding its USPS system identification numbers and/or access to their information online at gateway.usps.com; and - k. 3. When the Delegate Management option for an USPS system identification numbers has been requested, the management of the USPS system identification numbers or Business Services access</p> | |

| Field | Format | Acceptable Value | Business Rules | Comments |
|-------|--------|------------------|--|----------|
| | | | <p>obtained on their behalf will be delegated to the Mailing Agent company and that this delegation may be revoked by the Mail Owner at any time. - l. The Mailing Agent declares, that: - m. 1. It has reviewed the terms and conditions, as outlined in the Guide to Intelligent Mail Letters and Flats regarding mailer identification (By/For) relationship information with all Mail Owners for whom the customer identification numbers or business services have been requested; and/or - n. It has reviewed the terms and conditions, as outlined in Publication 199 Intelligent Mail Package Barcode (IMpb) Implementation Guide for Confirmation Services and Electronic Verification System (eVS) Mailers and Publication 205 Electronic Verification System (eVS) Business and Technical Guide regarding use of the CRIDs, MID and other USPS identification numbers; - o. 2. It has advised and provided its Mail Owner the requisite information that is provided by the USPS including but not limited to USPS documentation on products and services defined in the Mailing Standards of the United States Postal Service (Domestic Mail Manual and International Mail Manual), technical specifications and guides, Postal Bulletins and Federal Register Notices; - p. 3. It has provided its Mail Owner the requisite information regarding pricing programs which includes but is not limited to incentive programs, contractual pricing the promotional campaign marketing material; work share discounts policies,</p> | |

| Field | Format | Acceptable Value | Business Rules | Comments |
|--|--------|------------------|---|----------|
| | | | participation and eligibility rules as defined in Federal Register Notices filed by Product Classification of the USPS; and - q. 4. My Mail Owner has provided this authorization in writing and will produce such authorization upon request to the USPS or the United States Postal Inspection Service (or their agent). - r. | |
| LegalAcknowledgementBlockMIDType ENDS | | | | |

5.5 Complex Type: LegalAcknowledgementBlockMSPSType

| Field | Format | Acceptable Value | Business Rules | Comments |
|---|-------------------|------------------|--|---|
| LegalAcknowledgementBlockMSPSType BEGINS | | | | |
| UnderstandLegalLiabilityForApplyingForSomeOneElse | yesNo simple type | - | Required Default = No | Refer to this simple type in Appendix B |
| AcknowledgeNotifyingTheMailOwner | yesNo simple type | - | Required | Refer to this simple type in Appendix B |
| USPSLegalAgreement | String | | Required This Declaration pertains to the Mail Service Provider service that allows authorized Mail Service Providers to register with the United States Postal Service (USPS) to receive, apply, and use USPS system identification numbers on behalf of a Mail Owner. - a. A Mail Service Provider (MSP), hereafter known as Mailing Agent, is a company or entity that performs one or more of the following functions on behalf of other companies or organizations: designs, creates, prepares, processes, sorts, or otherwise prepares postcards, letters, flats or | |

| Field | Format | Acceptable Value | Business Rules | Comments |
|-------|--------|------------------|--|----------|
| | | | <p>packages for acceptance and delivery by the Postal Service.- b. A Mail Owner is defined as a company that has authorized a Mail Service Provider to act as its Mailing Agent with the USPS, and to perform Mailing Services on its behalf using the Mail Owner's Mailer ID/Customer Registration ID or other USPS system identification number in the Mail Owner's name.- c. USPS system identification numbers include but are not limited to Mailer ID (MID) and Customer Registration ID (CRID). A CRID is a unique number for a Mail Owner or Mailing Agent at an address and is normally assigned when a Mail Owner or Mailing Agent applies online with the Postal Service through the Business Customer Gateway. - d. By/For reflects the relationship between the Mail Owner and Mailing Agent where typically the By field identifies the Mailing Agent and the For field identifies the Mail Owner. - e. A MID is a six-digit or nine-digit unique number which the USPS assigns to a Mail Owner or Mailing Agent for use in the Intelligent Mail barcodes to identify the Mail Owner or Mailing Agent. A MID is used to send information to the Mail Owner or Mailing Agent associated with the Mailer ID regarding Intelligent Mail mailing and shipping, and is normally assigned when a Mail Owner or Mailing Agent applies online with the USPS through the Business Customer Gateway. - f. A Business Service is defined as an online business function accessed through the Business Customer Gateway at</p> | |

| Field | Format | Acceptable Value | Business Rules | Comments |
|-------|--------|------------------|--|----------|
| | | | <p>gateway.usps.com, hereafter known as Business Services.</p> <p>- g. I, the Mailing Agent, declare to the USPS that I have been authorized by my Mail Owner(s) to act as their Mailing Agent with the USPS and obtain the Business Services requested for business mailing matters on their behalf.</p> <p>- h. The Mailing Agent acknowledges that it has informed its Mail Owner customer(s), via electronic or paper communication, that:</p> <p>- i. 1. The Mail Owner remains responsible for all actions performed by its Mailing Agent with respect to its Mailer IDs, CRIDs or other USPS system identification numbers and Business Services;</p> <p>- j. 2. The Mail Owner can obtain details or ask questions from the USPS regarding its USPS system identification numbers and/or access to their information online at gateway.usps.com; and</p> <p>- k. 3. When the Delegate Management option for an USPS system identification numbers has been requested, the management of the USPS system identification numbers or Business Services access obtained on their behalf will be delegated to the Mailing Agent company and that this delegation may be revoked by the Mail Owner at any time.</p> <p>- l. The Mailing Agent declares, that:</p> <p>- m. 1. It has reviewed the terms and conditions, as outlined in the Guide to Intelligent Mail Letters and Flats regarding mailer identification (By/For) relationship information with all Mail Owners for whom the customer identification numbers or business services have been requested; and/or</p> | |

| Field | Format | Acceptable Value | Business Rules | Comments |
|--|--------|------------------|--|----------|
| | | | <p>- n. It has reviewed the terms and conditions, as outlined in Publication 199 Intelligent Mail Package Barcode (IMpb) Implementation Guide for Confirmation Services and Electronic Verification System (eVS) Mailers and Publication 205 Electronic Verification System (eVS) Business and Technical Guide regarding use of the CRIDs, MID and other USPS identification numbers; - o. 2. It has advised and provided its Mail Owner the requisite information that is provided by the USPS including but not limited to USPS documentation on products and services defined in the Mailing Standards of the United States Postal Service (Domestic Mail Manual and International Mail Manual), technical specifications and guides, Postal Bulletins and Federal Register Notices; - p. 3. It has provided its Mail Owner the requisite information regarding pricing programs which includes but is not limited to incentive programs, contractual pricing the promotional campaign marketing material; work share discounts policies, participation and eligibility rules as defined in Federal Register Notices filed by Product Classification of the USPS; and - q. 4. My Mail Owner has provided this authorization in writing and will produce such authorization upon request to the USPS or the United States Postal Inspection Service (or their agent). - r.</p> | |
| LegalAcknowledgement BlockMSPSType ENDS | | | | |

5.6 Complex: MidEntryType

| Field | Format | Acceptable Value | Business Rules | Comments |
|----------------------------|--|------------------|---|--|
| midEntryType BEGINS | | | | |
| CustomerCRID | CRIDType simple type | - | Required | Refer to this simple type in Appendix B |
| CustomerName | String | | Optional | |
| PermitPublicationData | permitPublicationDataTy pe complex type | - | Optional | Refer to this complex type in Appendix A |
| CompanyHQIndicator | yesNo simple type | - | Optional | Refer to this simple type in Appendix B |
| Address1 | String 64 | | Optional | |
| Address2 | String 64 | | Optional | |
| City | String 50 | | Optional | |
| State | String 2 | | Optional | |
| ZipCode | Numeric String 5 | | Optional | |
| SequenceNumber | Integer | | Optional | |
| ApplyingForSelf | yesNo simple type | - | Required | Refer to this simple type in Appendix B |
| LegalAcknowledgment Block | legalAcknowledgementB lockMIDType complex type | - | Conditional; Required when ApplyingFor Self is "No" | Refer to this complex type in Appendix A |
| midEntryType ENDS | | | | |

5.7 Complex: MIDType

| Field | Format | Acceptable Value | Business Rules | Comments |
|-----------------------|------------------------------|------------------|----------------|---|
| MIDType BEGINS | | | | |
| MID6 | mailerID6Type simple type | | Required | Refer to this simple type in Appendix B |
| OR | | | | |
| MID9 | mailerID9Type simple type | | Required | Refer to this simple type in Appendix B |
| MIDType ENDS | | | | |

5.8 Complex Type: permitPublicationDataType

| Field | Format | Acceptable Values | Business Rules | Comments |
|---|-----------------------------------|-------------------|---|---|
| permitPublicationDataType 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 | permitTypeT ype simple type | - | Required | Refer to this simple type in Appendix B |
| Permit Zip4 | Numeric String, 9 | - | Required when providing Permit Number and Permit Zip 4 data | Refer to this simple type in Appendix B |
| Sequence Block ENDS | | | | |
| Publication Number | String, 8 | - | Either provide Permit Number, Permit Type 4 and optional Permit Type OR this field. | - |
| Choice Block ENDS | | | | |
| permitPublicationDataType ENDS | | | | |

5.9 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 Appendix B |
| MailerID9 | mailerID9Type | | Not required (attribute) Either MailerID6 or MailerID9 can be provided, not both | Refer to this simple type in Appendix B |
| CRID | CRIDType | | Not required (attribute), Either CRID or MID can be provided for authorization | Refer to this simple type in Appendix B |
| SchedulerID | String, 12 | | Optional | |
| MaildatUserLicense | userLicenseCodeType simple type | | Optional | Refer to this simple type in Appendix B |
| ShippingAgentID | String 12 | - | Optional | - |
| ReceivingAgentID | String 12 | - | Optional | - |

5.10 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 | |

5.11 Complex Type: VerificationErrorType

| Field | Format | Acceptable Value | Business Rules | Comments |
|-----------------------|------------------|------------------|-------------------------------|----------|
| Sequence Block BEGINS | | | Optional 0 to many allowed | |
| VerificationErrorCode | Numeric String 4 | | Required | |

Postal Service Mail.XML 14.0 for MID-CRID

| | | | | |
|----------------------------------|------------|--|----------|--|
| VerificationError Description | String 260 | | Optional | |
| Sequence Block ENDS | | | | |

6. Appendix B – Simple Types Data Structure

6.1 simpleType: CRIDStatusType

| Tag | Mail.XML 14.0 |
|-------------|---------------|
| Base | xs:string |
| enumeration | New |
| enumeration | Existing |

6.2 simpleType: CRIDType

| Tag | Mail.XML 14.0 |
|-----------|---------------|
| Base | xs:string |
| maxLength | 15 |
| minLength | 1 |
| pattern | ([0-9])* |

6.3 simpleType: EnrollingForSelf

| Tag | Mail.XML 14.0 |
|------|--------------------|
| Base | mailxml_base:yesNo |

6.4 simpleType: mailerID6Type

| Tag | Mail.XML 14.0 |
|------|-------------------|
| Base | mailxml_base:ns06 |

6.5 simpleType: mailerID9Type

| Tag | Mail.XML 14.0 |
|------|-------------------|
| Base | mailxml_base:ns09 |

6.6 simpleType: mIDStatusType

| Tag | Mail.XML 14.0 |
|-------------|---------------|
| Base | xs:string |
| enumeration | New |
| enumeration | Existing |

6.7 simpleType: ns04

| Tag | Mail.XML 14.0 |
|---------|---------------|
| Base | xs:string |
| pattern | [0-9]{4} |

6.8 simpleType: ns05

| Tag | Mail.XML 14.0 |
|-----|---------------|
|-----|---------------|

| Tag | Mail.XML 14.0 |
|---------|---------------|
| Base | xs:string |
| pattern | [0-9]{5} |

6.9 simpleType: ns09

| Tag | Mail.XML 14.0 |
|---------|---------------|
| Base | xs:string |
| pattern | [0-9]{9} |

6.10 simpleType: permitTypeType

| Tag | Mail.XML 14.0 |
|-------------|---------------|
| Base | xs:string |
| enumeration | PI |
| enumeration | MT |
| enumeration | PC |
| enumeration | BR |
| enumeration | PE |
| enumeration | GH |
| enumeration | OI |
| enumeration | OM |
| enumeration | PP |
| enumeration | - |

6.11 simpleType: s12

| Tag | Mail.XML 14.0 |
|------------|---------------|
| Base | xs:string |
| maxLength | 12 |
| minLength | 1 |
| whiteSpace | preserve |

6.12 simpleType: s40

| Tag | Mail.XML 14.0 |
|------------|---------------|
| Base | xs:string |
| maxLength | 40 |
| minLength | 1 |
| whiteSpace | preserve |

6.13 simpleType: s50

| Tag | Mail.XML 14.0 |
|------------|---------------|
| Base | xs:string |
| maxLength | 50 |
| minLength | 1 |
| whiteSpace | preserve |

6.14 simpleType: s64

| Tag | Mail.XML 14.0 |
|------------|---------------|
| Base | xs:string |
| maxLength | 64 |
| minLength | 1 |
| whiteSpace | preserve |

6.15 simpleType: s260

| Tag | Mail.XML 14.0 |
|------------|---------------|
| Base | xs:string |
| maxLength | 260 |
| minLength | 1 |
| whiteSpace | preserve |

7. Appendix C - WSDLs and XSDs

The WSDL specifications are posted on RIBBS® and can be downloaded from the following location:
http://ribbs.usps.gov/intelligentmail_guides/documents/tech_guides/xmlspec/wsdl/wsdl.htm

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

PULL WSDL LINKS FOR TEM ENVIRONMENT

Note: Customers must use one of the following URLs in the TEM environments for the WSDL services:

MESSAGE-TYPE WSDL URL Link(s)

The following link supports Mail.XML Modular Specification (9.0 and above):

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, will support multiple versions of Modular spec.

Identification:

<https://mailxmltem.uspspostalone.com/Identification/WebServices/wsd/Identification.wsd>

PULL WSDL LINKS FOR PRODUCTION ENVIRONMENT

Note: To consume the WSDL services, the customer must use one of the following URLs in the Production environments:

MESSAGE-TYPE WSDL URL Link(s)

The following link supports Mail.XML Modular Specification (9.0 and above):

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, will support multiple versions of Modular spec

Identification:

<https://p1webservices.uspspostalone.com/Identification/WebServices/wsd/Identification.wsd>

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 following WSDL name change information for message-type WSDLs:

MESSAGE-TYPE PUSH WSDL

The customer need to provide URL for their Web Server and uses the following WSDL that only supports Mail.XML version 14.0.

- For Mail.XML 14.0 and future versions – following WSDL name shall be used:
 - o WSDL NAME for Data Distribution: DataDistributionPush.wsd
 - o WSDL NAME for Transportation: TransportationPush.wsd

PUSH MESSAGES XSD NAME CHANGES INFORMATION

The USPS is implementing a new XSD name to support Mail.XML 14.0 Push subscription messages.

INDEX

authorization, 41
CRID, 17, 19, 21, 23, 24, 41
feedback, 17, 19, 21, 23
Mail.XML, 17, 26, 43, 44, 45, 46
Mailer ID, 17, 21
MID, 17, 19, 20, 24, 41
Permit, 18, 22, 40
PermitZip4, 22
PostalOne!, 17, 19, 21, 23
Sequence, 18
specification, 17
SubmittingParty, 18, 22, 41
SubmittingSoftware, 18, 22, 41
USPS, 19, 22, 23, 46
USPSCRIDCreateRequest, 21, 23, 24
USPSCRIDCreateResponse, 21, 23, 24
USPSMIDCreateResponse, 17, 19, 20
WSDL, 46