# *Postal Service Mail.XML 8.1 Electronic Application Process Technical Specification*

# *For*

# *Mailer IDs (MID) and Customer Registration IDs (CRID)*

## *Release 8 January 2012*

**Version 1.6.7**

**Prepared by**
**United States Postal Service**

# Table of Contents

# Document Change History

These are the changes from Version 1.6.6 to Version 1.6.7

| Date | Section # | Title | Description |
|---|---|---|---|
| 01/30/2012 | 1.7 | Environments Supported by USPS | Revised the text of this section to correct misspelled words |
| 01/30/2012 | 1.4 | What is Mail.XML? | Revised the text of this section |
| 01/25/2012 | 2.5 | USPS MID Create Request Overview | Changed the title of this section<br>From<br>“USPS MID Create Request Overview”<br>To<br>“Requesting MIDs using Mail.XML Web Services” |
| 01/25/2012 | 2.4 | USPS MID Create Request (USPSMIDCreateRequest) | - Changed the title heading of this section from Heading 2 to Heading 3 for clearer organization<br>- Changed the tile<br>From<br>“USPS MID Create Request (USPSMIDCreateRequest)”<br>To<br>“USPS MID Create Request Overview” |
| 01/25/2012 | 2.3 | Process | Changed the title heading of this section from Heading 2 to Heading 3 for clearer organization |
| 01/25/2012 | 2.2 | Preconditions | Changed the title heading of this section from Heading 2 to Heading 3 for clearer organization |
| 01/25/2012 | 2.4 | USPS CRID Create Request Overview | Changed the title heading of this section from Heading 2 to Heading 3 for clearer organization |
| 01/25/2012 | 2.3 | Process | Changed the title heading of this section from Heading 2 to Heading 3 for clearer organization |
| 01/25/2012 | 2.2 | Preconditions | Changed the title heading of this section from Heading 2 to Heading 3 for clearer organization |
| 01/24/2012 | 1.9 | January 2012 Release New Features | Added a new section summarizing the new feature enhancements for the January 2012 Release |

These are the changes from Version 1.6.5 to Version 1.6.6

| Date | Section # | Title | Description |
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| 01/20/2012 | All | | Updated document version in the footer and front page |
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| 01/20/2012 | All | | Removed “DRAFT” from the document title |

Following are the changes from Version 1.6.4 to Version 1.6.5

| ***Date*** | ***Section #*** | ***Title*** | ***Description*** |
|---|---|---|---|
| 01/12/2012 | 4.0 | Data Structure and Business Rules for Mail.XML 8.1 Specification | Update Return info to be Optional in Accept block and Required in Reject block across all Response messages |
| 01/12/2012 | 5.3 | LegalAknowledgmentBlockMIDType | Updated the text of the LegalAcknowledgmentblock Complex Type |
| 01/12/2012 | 5.2 | LegalAknowledgmentBlockCRIDType | Updated the text of the Legal Acknowledgment block |
| 01/12/2012 | 7.0 | Appendix C - WSDLs and XSDs | Replaced C for D I text<br>From:<br>“The customer must use either string-type or message-type URL to consume the services. These URL’s are provided in Appendix D.”<br>To<br>“The customer must use either string-type or message-type URL to consume the services. These URL’s are provided in Appendix C.” |
| 01/12/2012 | All | | Corrected: “Refer this complex type in Appendix B” with “Refer to this simple type in Appendix A” |
| 01/12/2012 | All | | Corrected: “Refer this simple type in Appendix C” with “Refer to this simple type in Appendix B” |
| 01/12/2012 | 1.4 | What is Mail.XML? | Updated the Mail.XML version and release date |
| 01/12/2012 | 1.7 | Environments Supported by USPS | Updated the text of the Environments Supported by USPS section |
| 01/12/2012 | 1.5 | Roadmap of Mail.XML | Updated the table of Mail.XML supported versions per release date |

| Date | Section # | Title | Description |
|---|---|---|---|
| 01/12/2012 | 1.3 | Intended Audience | Updated Purpose section text |
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Following are the changes from Version 1.6.3 to Version 1.6.4

| Date | Section # | Title | Description |
|---|---|---|---|
| Wed Aug 16,2011<br>Thu Aug 18, 2011 | All | All | Updated the styles and format throughout the document |
| | Appendix A | Appendix A – Mail.XML 8.1 Complex and Attribute Groups Definitions | a. Updated the Legal Acknowledgement Block CRID Type with the complete legal statement<br>b. Updated the Legal Acknowledgement Block MID Type with the complete legal statement<br>c. Corrected references to other Complex and Simple Types |
| | Appendix B | Appendix B – Mail.XML 10.0A Complex and Attribute Groups Definitions | a. Updated the Legal Acknowledgement Block CRID Type with the complete legal statement<br>b. Updated the Legal Acknowledgement Block MID Type<br>with the complete legal statement<br>c. Corrected references to other Complex and Simple Types |
| | 3.0 | MID and CRID Application Process | a. Updated the whole section with corrections and clarifications on processing CRID and MID requests in TEM vs. Production.<br>b. Updated the Prerequisites and Process for both CRID and MID request sections. |
| | 1.0 | Postal Service Mail.XML | a. Updated the section to split the Overview into its own section. B. Updated the General XML information section. |
| | 4.0 | Data Structure and Business Rules for Mail.XML 8.1 Specification | a. Updated references to Complex Types; fixed the Appendix references.<br>b. Reformatted the Prerequisites and Business Rules |
| | 5.0 | Data Structure and Business Rules for Mail.XML 10.0A Specification | a. Updated references to Complex Types; fixed the Appendix references.<br>b. Reformatted the Prerequisites and Business Rules |

Following are the changes from Version 1.6.2 to Version 1.6.3

| Date | Section # | Title | Description |
|---|---|---|---|
| Mon Aug 15,2011 | | Document Change History | Inserted a Document Change History section |
| | 8.0 | Appendix C – Simple Types | Reduce the Simple Types to the ones only contained in MID/CRID Message and |

| Date | Section # | Title | Description |
|---|---|---|---|
| | | Data Structure | Complex Types |

# 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.

**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 8.1 specification
- Section 4.0: This section provides technical information (Data Structure and Business Rules) for all messages supported in Mail.XML 8.1 specification

## 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 8.0 functionalities, implemented in March 2010, have four major business functions: eDoc messages, data distribution messages, profile management messages, and FAST scheduling messages but 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 8.0 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 November 2011.

| **Release/Date** | **Profile Management** |
|---|---|
| November 2011 | V8.1 and v10.0A |
| January 2012 | V10.0A and v11.0D |

The table below lists all Mail.XML Profiles Management messages for MIDs and CRIDs by versions. The versions listed below are 8.1 (Supported today).

**Table 1-1: Profiles Management Messages List By Mail.XML Versions**

| **Message Name** | **Supported in Mail.XML 8.1** |
|---|---|
| USPSCRIDCreateRequest | **X** |
| USPSCRIDCreateResponse | **X** |
| USPSMIDCreate Request | **X** |

| | |
|---|---|
| USPSMIDCreateResponse | **X** |

## 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 following is the list of environments with detail description of each of the environment that will be supported by USPS:

The USPS supports to 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/wsdls/wsdls.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 downloable 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="uspsmxml: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 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 versions of Mail.XML but they need to be manually registered in the code. The USPS is keeping this string type until Mail.XML 9.0X implementation. After Mail.XML 9.0X implementation, USPS will move strictly to the Message-Type WSDLs to help the industry.

- **Consuming Message-Type WSDLs:**

  This method eliminates the need of manually registering each service and message type in their environment. With this method - customer can use automated tool that can setup their environment without the hassle of manually registering each service. However, this approach requires updates to WSDLs everytime a new Mail.XML version is released. In other words, it is tightly coupled with the Mail.XML Specification Version. The USPS is transitioning to this type of Message WSDLs to help the industry remove manual editing and registering of messages. USPS will stop supporting String-Type WSDLs post Mail.XML 9.0 release, so we recommend everyone in the industry to make plans to move to the message Type WSDLs.

The customer must use either string-type or message-type URL to consume the services. These URL's are provided in Appendix C.

## 1.9 January 2012 Release New Features

The following are the enhancements for the Mailer Identification (MID) tool for 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) will assume the style sheet of the USPS.com look and feel from the Phoenix project deployed on July 23, 2011.

The MID system will also allow 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 will prompt 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 will allow 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 will allow the user to apply Data Distribution profile information (one or any combinations) of MIDs associated with the user's CRID. The MID system will also allow the user to select all MIDs.
The section for MID selection in the MID system will contain the following fields:
- MID
- Customer Reference

In addition, the MID system will allow 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 will have the same Full Service ACS billing profile.

**MID Assignment**

External user will be allowed to request two MIDs without the system performing volume checks. Users will also be able to request additional MIDs above the volume allotment.
Mailing Agents (or other third party, Mail Services providers (MSPs) ) will be allowed to request MIDs on behalf of clients of mail owners.
Furthermore, the MID system will also allow a user to request up to two MIDs before it is required to verify mailing volumes.

**Impact Assessment**

The implementation of these features starting in January 2012 will increase the number of MIDs deployed to the production environment. These features will tremendously improve the user experience of external mailers handling hundreds of MIDs. Editing MID Data Distribution will then become a streamlined process.

# 2. MID and CRID Application Process

This section covers the process that can be followed to process of CRIDs and MIDs in groups of fifty (50) CRID or MID requests.
**Note:** that in order to use the USPS Web Services in the production environment all users must first complete the testing in the USPS TEM environment.

## 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 ones 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 ones own organization, and No is translated as the request is for ones 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 fifty (50) 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 USPSCRIDCreateRequest 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” |

## 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 for many MIDs at the same time.
**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.

### 2.2.1 **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 ones 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 ones own organization, and No is translated as the request is for ones 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 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 MID information and address 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 fifty (50) MID addresses in one request. Multiple MID requests can be sent one after the other.
4. Compile the list of addresses with the required information as provided in this guide. For more information please review the section Prerequisites above.
5. Convert the list into compatible Mail.XML XSD verified form.
6. It is highly recommended that the requester sends only fifty (50) MID requests in one Mail.XML MID Create Request message. 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.

### 2.2.3 **USPS MID Create Request Overview**

Please refer to the USPSMIDCreateRequest 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. Mail.XML 8.1 - MID and CRID Specification

## 3.1 Overview

As part of the Mail.XML 8.1 and Web Services messages; USPS will allow mailers with the capability to manage their corporate identification. Following is the list of Mail.XML messages that will be supported in November 2011.

Following is the list of messages supported in Mail.XML 8.1 Specification with their description and details on each of these messages:

**Table 2-1: Profile Management Messages Supported in Mail.XML 8.1**

| Message Name | Message Description |
|---|---|
| USPSMIDCreateRequest | This message will allow Mailers to request the *PostalOne!* System to create the Mailer ID (MID), if one already exists, USPS responds with the existing MID.. |
| USPSMIDCreateResponse | 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 than the MID will be sent back to mailer in the response message |
| USPSCRIDCreateRequest | This message will allow mailers to request the *PostaOne!* System to create the CRID for their corporation, if one already exists, USPS responds with the existing CRID. |
| USPSCRIDCreateResponse | 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 than the CRID will be sent back to the mailer in the response message |

## 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 |
|---|---|

| | |
|---|---|
| 8.1 and 10.0A | The customer should not zero pad their MID and CRID ID's |

## 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 all three version of the Mail.XML i.e. 8.1, 9.0C, and 10.0.

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.

**Table 2-2: Fault Codes**

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

## 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 both Mail.XML 8.10 and

Mail.XML 10.0A versions.

**Table 2-3*: PostalOne!* – MID CRID Return Code Values**

| Code | Description | Messages |
|---|---|---|
| 5000 | FULLSERVICE-EDOC: REQUEST SERVED SUCCESSFULLY. | USPSCRIDCreateResponse |
| 5001 | FULLSERVICE-EDOC: Not Valid Schema. | USPSCRIDCreateResponse |
| 5007 | FULLSERVICE-EDOC: Internal System error message. Please contact *PostalOne!* Help | USPSCRIDCreateResponse |
| 5008 | FULLSERVICE-EDOC: Empty Message. Please Contact *PostalOne!* Help Desk. | USPSCRIDCreateResponse |
| 5009 | FULLSERVICE-EDOC: Request is not XML Message. Please Contact *PostalOne!* Help Desk. | USPSCRIDCreateResponse |
| 5012 | FULLSERVICE-EDOC: 'LegalAcknowledgementBlock' must be specified | USPSCRIDCreateResponse |
| 5013 | FULLSERVICE-EDOC: 'LegalAcknowledgementBlock | USPSCRIDCreateResponse |

| Code | Description | Messages |
|---|---|---|
| | > UnderstandLegalLiabilityForApplyingForSomeOneElse ' must be 'Yes'' when 'ApplyingForSelf' is 'No'. | |
| 5014 | FULLSERVICE-EDOC: 'LegalAcknowledgementBlock > AcknowledgeNotifyingTheMailOwner' must be 'Yes' when 'ApplyingForSelf' is 'No'. | USPSCRIDCreateResponse |
| 5015 | FULLSERVICE-EDOC: The text in the 'USPSLegalAgreement' element does not match the text defined in the Mail.XML specification. | USPSCRIDCreateResponse |
| 5017 | FULLSERVICE-EDOC: The address provided is not a valid USPS address | USPSCRIDCreateResponse |
| 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. | USPSCRIDCreateResponse |
| 5000 | FULLSERVICE-EDOC: REQUEST SERVED SUCCESSFULLY. | USPSMIDCreateResponse |
| 5001 | FULLSERVICE-EDOC: Not Valid Schema. | USPSMIDCreateResponse |
| 5007 | FULLSERVICE-EDOC: Internal System error message. Please contact *PostalOne!* Help | USPSMIDCreateResponse |
| 5008 | FULLSERVICE-EDOC: Empty Message. Please Contact *PostalOne!* Help Desk. | USPSMIDCreateResponse |
| 5009 | FULLSERVICE-EDOC: Request is not XML Message. Please Contact *PostalOne!* Help Desk. | USPSMIDCreateResponse |
| 5012 | FULLSERVICE-EDOC: 'LegalAcknowledgementBlock' must be specified | USPSMIDCreateResponse |
| 5013 | FULLSERVICE-EDOC: 'LegalAcknowledgementBlock > UnderstandLegalLiabilityForApplyingForSomeOneElse ' must be 'Yes'' when 'ApplyingForSelf' is 'No'. | USPSMIDCreateResponse |
| 5014 | FULLSERVICE-EDOC: 'LegalAcknowledgementBlock > AcknowledgeNotifyingTheMailOwner' must be 'Yes' when 'ApplyingForSelf' is 'No'. | USPSMIDCreateResponse |

| | | |
|---|---|---|
| 5015 | FULLSERVICE-EDOC: The text in the 'USPSLegalAgreement' element does not match the text defined in the Mail.XML specification. | USPSMIDCreateResponse |
| 5016 | FULLSERVICE-EDOC: The specified 'CustomerCRID' could not be found. | USPSMIDCreateResponse |

# 4. Data Structure and Business Rules for Mail.XML 8.1 Specification

The section below lists all messages supported in the Mail.XML 8.1 specification. This section spells out the business rules and data structure for each of those messages.

## 4.1 USPSMIDCreateRequest

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):
  - CRID
  - ApplyingForSelf
- PostalOne! will provide feedback to the mailer using USPSMIDCreateResponse Message
- If successful:
  - Response is returned to mailer
  - Response will include per MID requested:
    - One 9-digit MID if newly created
    - 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 USPSMIDCreateRequest message, the customer needs to provide the information for all of the required blocks:

1. Submitting Party
2. Submitting Software
3. Customer CRID
4. Customer Name
5. Optional to provide Permit Info
6. Company HQ Indicator – The accepted values are ‘Yes’ or ‘No’
7. Address Information
8. Sequence Number
9. Applying for Self Indicator. Accepted values are ‘Yes’ or ‘No’
10. Legal Acknowledgment - Required to provide Legal Acknowledgment Block when Self Indicator is “No.” This block requires following info:
    - UnderstandLegalLiabilityForApplyingForSomeOneElse
    - AcknowledgementNotifyingTheMailOwner

- USPSLegalAgreement

### 4.1.1 **USPSCRIDCreateRequest Data Structure**

**Field Description**

| **USPSCRIDCreateRequest** | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Value** | **Business Rules** | **Comments** |
| **USPSCRIDCreateRequest BEGINS** | | | | |
| SubmittingParty | participantIDType complex type | - | Required | Refer 'Submitting Party' complex in appendix A |
| SubmittingSoftware | submittingSoftwareType complex type | - | Required | Refer 'Submitting Software' complex in appendix A |
| MIDEntry | midEntryType complex type | - | Required<br>1 to many | See below for details in midEntryType |
| **midEntryType BEGINS** | | | | |
| CustomerCRID | CRIDType simple type | - | Required | Refer to this simple type in Appendix B |
| CustomerName | String | | Optional | |
| 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 |
| Address1 | String 64 | | Optional | |
| Address2 | String 64 | | Optional | |
| City | String 50 | | Optional | |
| State | String 2 | | Optional | |

| USPSCRIDCreateRequest | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Value** | **Business Rules** | **Comments** |
| ZipCode | Numeric String 5 | | Optional | |
| SequenceNumber | Integer | | Optional | |
| ApplyingForSelf | yesNo simple type | - | Required | Refer to this simple type in Appendix B |
| LegalAcknowledgment Block | legalAcknowledgementBlockMIDType complex type | - | Optional | Refer to this complex type in Appendix A |
| **midEntryType ENDS** | | | | |
| **USPSCRIDCreateRequest ENDS** | | | | |

## 4.2 **USPSMIDCreateResponse**

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):
  - CRID
  - ApplyingForSelf
- *PostalOne!* will provide feedback to the mailer using USPSMIDCreateResponse Message

  If successful:
  - Response is returned to mailer
  - Response will include per MID requested:
    a. One 9-digit MID if newly created
    b. One or more MIDs if existing

  If not successful:
  - Response is returned to mailer
  - Response will indicate the problem per MID requested

**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**

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

1. In ACCEPT block
    - Returns all of the data blocks/elements that were sent in the USPSMIDCreateRequest message AND
    - MID information, which is either MID6 or MID9 AND
    - OPTIONAL return info block that contains return code and return description

2. in REJECT block
    - Returns all of the data blocks/elements that were sent in the USPSMIDCreateRequest message AND
    - REQUIRED return info block that contains return code and return description to communicate the issue

### 4.2.1 **USPSMIDCreateAccept Data Structure**

**Field Description**

| **USPSMIDCreateAccept** | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Value** | **Business Rules** | **Comments** |
| **USPSMIDCreateAccept Block BEGIN** | | | | |
| MID | Complex | - | Required 1 to many | Refer 'MIDType' complex in appendix A |
| MIDStatus | mailxml_base :mIDStatus Type | Refer 'mIDStatusType' simple type | Required | Refer Appendix A |
| MIDEntry | Complex | - | Required | Refer 'MIDEntryType' complex in appendix A |
| ReturnInfo | Complex | | Optional | Refer 'ReturnInfo' complex in appendix A |
| **USPSMIDCreateAccept Block END** | | | | |
| | | | | |
| **USPSMIDCreateReject Block BEGIN** | | | | |
| MIDEntry | Complex | - | Required | Refer 'MIDEntryType' complex in appendix A |
| ReturnInfo | Complex | - | Required | Refer 'ReturnInfo' complex in appendix A |
| **USPSMIDCreateReject Block END** | | | | |

## 4.3 **USPSCRIDCreateRequest**

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

**Prerequisites**

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

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

1. Submitting Party
2. Submitting Software
3. Company Name
4. Permit Publication Block that must provide information for the following required elements:
   a. Permit Number and PermitZip4 OR
   b. Publication Number
5. Company HQ indicator. The accepted values are 'Yes' or 'No'
6. 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.
   a. Address 1
   b. City
   c. State
   d. Zip Code
7. Address Match Indicator. The accepted values are 'Yes' or 'No'
8. Applying for Self indicator. The accepted values are 'Yes' or 'No'
9. Required to provide Legal Acknowledgment block when 'Self Indicator' is No. The block requires following information
   a. UnderstandLegalLiabilityForApplyingForSomeOneElse. The accepted values are 'Yes' or 'No'.
   b. AcknowledgeNotifyingTheMailOwner. The accepted values are 'Yes' or 'No'
   c. USPSLegalAgreement. This field contains the USPS legal agreement by default.

### 4.3.1 **USPSCRIDCreateRequest Data Structure**

**Field Description**

| **USPSCRIDCreateRequest** |
|---|

| Field | Format | Acceptable Value | Business Rules | Comments |
|---|---|---|---|---|
| **USPSCRIDCreateRequest BEGINS** | | | | |
| SubmittingParty | participantIDType complex type | - | Required | Refer 'Submitting Party' complex in appendix A |
| SubmittingSoftware | submittingSoftwareType complex type | - | Required | Refer 'Submitting Software' complex in appendix A |
| CRIDEntry | CRIDEntryType complex type | CRIDEntryType | Required<br>1 to many | 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 this simple type in Appendix A |
| 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 | - | Optional | Refer to this complex type in Appendix A |
| **CRIDEntryType BEGINS** | | | | |
| **USPSCRIDCreateRequest ENDS** | | | | |

## 4.4 **USPSCRIDCreateRespone**

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

**Prerequisites**

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

**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**

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

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

### 4.4.1 **USPSCRID CreateAccept Data Structure**

**Field Description**

| **USPSCRID CreateAccept** | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Value** | **Business Rules** | **Comments** |
| **USPSCRID CreateAccept Block BEGIN** | | | 1 to many allowed | |
| CRID | mailxml_base :CRIDType | Refer ‘CRIDType’ simple type | Required | Refer Appendix A |
| CRIDStatus | mailxml_base :cRIDStatusT ype’ | Refer ‘cRIDStatusType’ simple type | Required | Refer Appendix A |

| USPSCRID CreateAccept | | | | |
|---|---|---|---|---|
| **Field** | **Format** | **Acceptable Value** | **Business Rules** | **Comments** |
| CRIDEntry | Complex | - | - | Refer 'CRIDEntryType' complex in appendix A |
| ReturnInfo | Complex | - | Optional | Refer 'ReturnInfo' complex in appendix A |
| **USPSCRIDCreate Accept Block END** | | | | |
| | | | | |
| **USPSCRIDCreate Reject Block BEGIN** | | | | |
| CRIDEntry | Complex | | | Refer 'CRIDEntry Type' complex in appendix A |
| ReturnInfo | Complex | | Required<br><br>0 to many | Refer 'ReturnInfo' complex in appendix A |
| **USPSCRIDCreate Reject Block END** | | | | |

# 5. Appendix A – Mail.XML 8.1 Complex and Attribute Groups Definitions

## 5.1 Complex Type: CRIDEntryType

| Field | Format | Acceptable Value | Business Rules | Comments |
|---|---|---|---|---|
| CompanyName | String 40 | | Required | |
| PermitPublicationData | Complex | - | Optional | Refer 'Permit PublicationData Type' complex in appendix **A** |

| Field | Format | Acceptable Value | Business Rules | Comments |
|---|---|---|---|---|
| CompanyHQIndicator | Boolean | Yes, No | Optional | |
| Address | Complex | - | Required | Refer 'Address Type' complex in appendix **A** |
| AddressMatch | Boolean | Yes, No | Required | |
| ApplyingForSelf | Boolean | Yes, No | Required | |
| LegalAcknowledgement Block | Complex | - | Conditional ; required when ApplyingForSelf is set to No | Refer 'Legal Acknowledgment Block' complex Type in Appendix **A** |

## 5.2 **Complex Type: LegalAknowledgmentBlockCRIDType**

| 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 | | Required<br>This certification pertains to the Mail Service Provider service that allows Mail Service Providers, hereafter known as Mailing Agent, to request and use account types by service on behalf of a Mail Owner. The definition of the Mail Owner is the customer of the Mailing Agent who is engaged in a commercial relationship. The definition of account type includes but is not limited to Mailer ID (MID) and/or Customer Registration ID | - |

| Field | Format | Acceptable Value | Business Rules | Comments |
|---|---|---|---|---|
| | | | (CRID). The definition of service is an online application accessed through the Business Customer Gateway at Gateway.usps.com. I, the Mailing Agent, certify to the United States Postal Service that I have been authorized by my customer(s), the Mail Owners identified by the MID / CRID or other account type to act as their Mailing Agent with the U S Postal Service, and obtain the services requested for business mailing matters on their behalf.<br>1. Mailing Agent acknowledges he has reviewed the terms and conditions, as outlined in the Guide to Intelligent Mail Letters and Flats regarding mailer identification requirements with all Mail Owner customers for who account type or Business Customer Gateway services have been requested. This includes providing a copy of the Guide to Intelligent Mail Letters and Flats and/or the link to access this guide.<br>2. Mailing Agent acknowledges he has informed these customers that as Mail Owners they are still responsible for all actions performed by a Mailing Agent with respect to their account types.<br>3. Mailing Agent acknowledges he has advised these Mail Owner customers they can obtain details or ask questions from the USPS regarding their account types and/or access to their information online at Gateway.usps.com.<br>4. Mailing Agent acknowledges that, when the Delegate Management option for an account type has been | |

| Field | Format | Acceptable Value | Business Rules | Comments |
|---|---|---|---|---|
| | | | requested, he has informed these customers that the management of the account type or Business Customer Gateway service 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.<br>5. Mailing Agent acknowledges he has advised customers that the account types obtained belong to the Mail Owner customer and if the relationship between the Mailing Agent and the Mail Owner customer ends, the account type remains with the Mail Owner and that the access to Business Customer Gateway service for use on behalf of the Mailer Owner shall be surrendered.<br>6. Mailing Agent certifies all customers have provided this authorization through a written agreement with his company and will produce such agreement upon request to the U S Postal Service, the United States Postal Inspection Service, or their agents. | |
| **LegalAcknowledgementBlockCRIDType ENDS** | | | | |

## 5.3 **Complex Type: LegalAknowledgmentBlockMIDType**

| Field | Format | Acceptable Value | Business Rules | Comments |
|---|---|---|---|---|
| **LegalAcknowledgementBlockMIDType BEGINS** | | | | |
| UnderstandLegalLiabilityForApplyingForSomeOneElse | yesNo simple type | - | Required | Refer to this simple type in Appendix B |

| Field | Format | Acceptable Value | Business Rules | Comments |
|---|---|---|---|---|
| AcknowledgeNotifyingTheMailOwner | yesNo simple type | - | Required | Refer to this simple type in Appendix B |
| USPSLegalAgreement | String | | Required<br>This certification pertains to the Mail Service Provider service that allows Mail Service Providers, hereafter known as Mailing Agent, to request and use account types by service on behalf of a Mail Owner. The definition of the Mail Owner is the customer of the Mailing Agent who is engaged in a commercial relationship. The definition of account type includes but is not limited to Mailer ID (MID) and/or Customer Registration ID (CRID). The definition of service is an online application accessed through the Business Customer Gateway at Gateway.usps.com.<br>I, the Mailing Agent, certify to the United States Postal Service that I have been authorized by my customer(s), the Mail Owners identified by the MID / CRID or other account type to act as their Mailing Agent with the U S Postal Service, and obtain the services requested for business mailing matters on their behalf.<br>1. Mailing Agent acknowledges he has reviewed the terms and conditions, as outlined in the Guide to Intelligent Mail Letters and Flats regarding mailer identification requirements with all Mail Owner customers for who account type or Business Customer Gateway services have been requested. This includes providing a copy of the Guide to Intelligent Mail Letters and Flats and/or the link to access this guide. | - |

| Field | Format | Acceptable Value | Business Rules | Comments |
|---|---|---|---|---|
| | | | 2. Mailing Agent acknowledges he has informed these customers that as Mail Owners they are still responsible for all actions performed by a Mailing Agent with respect to their account types.<br>3. Mailing Agent acknowledges he has advised these Mail Owner customers they can obtain details or ask questions from the USPS regarding their account types and/or access to their information online at Gateway.usps.com.<br>4. Mailing Agent acknowledges that, when the Delegate Management option for an account type has been requested, he has informed these customers that the management of the account type or Business Customer Gateway service 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.<br>5. Mailing Agent acknowledges he has advised customers that the account types obtained belong to the Mail Owner customer and if the relationship between the Mailing Agent and the Mail Owner customer ends, the account type remains with the Mail Owner and that the access to Business Customer Gateway service for use on behalf of the Mailer Owner shall be surrendered.<br>6. Mailing Agent certifies all customers have provided this authorization through a written agreement with his company and will produce such agreement upon request to the U S Postal Service, the United | |

| Field | Format | Acceptable Value | Business Rules | Comments |
|---|---|---|---|---|
| | | | States Postal Inspection Service, or their agents. | |
| **LegalAcknowledgementBlockMIDType ENDS** | | | | |

## 5.4 **Complex: MidEntryType**

| Field | Format | Acceptable Value | Business Rules | Comments |
|---|---|---|---|---|
| CustomerCRID | String 15 | - | Required | - |
| CustomerName | String | | Optional | |
| PermitPublicationData | Complex | - | Optional | Refer 'PermitPublication DataType' complex in appendix **A** |
| CompanyHQIndicator | Boolean | Yes, No | Optional | |
| 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 | Boolean | Yes, No | Required | |
| LegalAcknowledgment Block | Complex | - | Optional | Refer 'Legal Acknowledgment BlockMIDType' complex in appendix **A** |

## 5.5 **Complex: MIDType**

| Field | Format | Acceptable Value | Business Rules | Comments |
|---|---|---|---|---|
| MID6 | String 6 | | Required | |
| **OR** | | | | |
| MID9 | String 9 | | Required | |

## 5.6 **Complex Type: permitPublicationDataType**

| Field | Format | Acceptable Values | Business Rules | Comments |
|---|---|---|---|---|
| Permit Number | String, 8 | - | Required, when providing Permit Number and Permit Zip4 data | - |
| Permit Type | mailxml_base :permitTypeT ype | Refer 'permitTypeT ype' simple type | Optional | Refer Appendix **A** |
| Permit Zip4 | Numeric String, 9 | - | Required when providing Permit Number and Permit Zip 4 data | |
| Publication Number | String, 8 | - | Either provide Permit Number, Permit Type 4 and optional Permit Type OR this field. | - |

## 5.7 **Complex Type: ReturnInfo**

| Field | Format | Acceptable Values | Business Rules | Comments |
|---|---|---|---|---|
| Return Code | Numeric String – Length 4 | - | Optional | |
| Return Description | String, Length 260 | - | Required | |

## 5.8 **Complex Type: SubmittingParty, participantIDType**

| Field | Format | Acceptable Values | Business Rules | Comments |
|---|---|---|---|---|
| MailerID6 | Numeric String, 6 | | Not required (attribute) Either MailerID6 or MailerID9 can be provided, not both | |
| MailerID9 | Numeric String, 9 | | Not required (attribute) Either MailerID6 or MailerID9 can be provided, not both | |
| CRID | String, 1 to 15 length | | Not required (attribute), Either CRID or MID can be provided for authorization | |
| SchedulerID | String, 12 | | Not supported for eDoc messages | |

| Field | Format | Acceptable Values | Business Rules | Comments |
|---|---|---|---|---|
| MaildatUserLicense | String, 1 to 4 Length | | Not supported for eDoc messages | |

## 5.9 Complex Type: SubmittingSoftware

| Field | Format | Acceptable Values | Business Rules | Comments |
|---|---|---|---|---|
| SoftwareName | String | | Required | |
| Vendor | String | | Required | |
| Version | String | | Required | |
| ApprovalDate | Date | YYYY-MM-DD | Not required | Changed the type to 'Date' based on errata |
| ApprovalKey | String | | Not required | |

## 5.10 Complex Type: VerificationErrorType

| Field | Format | Acceptable Value | Business Rules | Comments |
|---|---|---|---|---|
| VerificationErrorCode | Numeric String 4 | | Optional | |
| VerificationError Description | String 260 | | Optional | |

# 6. Appendix B – Simple Types Data Structure

The simple types below list variation of validation in Mail.XML for each version of the Mail.XML (i.e. 8.1, and 10.0). A column highlighted in YELLOW indicates that there is at least one change made from previous version. For example – if Mail.XML 8.1 column is highlighted in YELLOW, it means that at least one change is made in v8.1 from v7.0C. Another variation in the table below is when both v8.1 and v10.0A columns are highlighted in YELLOW. It means that there is at least one change made in v8.1 from v7.0C and then there was another change made in v10.0 from v8.1.

## 6.1 simpleType: cRIDStatusType

| Tag | Mail.XML 8.1 |
|---|---|
| Base | xs:string |
| enumeration | New |
| enumeration | Existing |

## 6.2 simpleType: CRIDType

| Tag | Mail.XML 8.1 |
|---|---|

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

## 6.3 simpleType: mailerID6Type

| Tag | Mail.XML 10.0 |
|---|---|
| Base | mailxml_base:ns06 |

## 6.4 simpleType: mailerID9Type

| Tag | Mail.XML 10.0 |
|---|---|
| Base | mailxml_base:ns09 |

## 6.5 simpleType: mIDStatusType

| Tag | Mail.XML 8.1 |
|---|---|
| Base | xs:string |
| enumeration | New |
| enumeration | Existing |

## 6.6 simpleType: ns04

| Tag | Mail.XML 8.1 |
|---|---|
| Base | xs:string |
| pattern | [0-9]{4} |

## 6.7 simpleType: ns05

| Tag | Mail.XML 8.1 |
|---|---|
| Base | xs:string |
| pattern | [0-9]{5} |

## 6.8 simpleType: ns09

| Tag | Mail.XML 8.1 |
|---|---|
| Base | xs:string |
| pattern | [0-9]{9} |

## 6.9 simpleType: permitTypeType

| Tag | Mail.XML 8.1 |
|---|---|
| Base | xs:string |
| enumeration | PI |
| enumeration | MT |
| enumeration | PC |
| enumeration | BR |

| | |
|---|---|
| enumeration | PE |
| enumeration | GH |
| enumeration | OI |
| enumeration | OM |
| enumeration | PP |
| enumeration | - |

## 6.10 **simpleType: s12**

| Tag | Mail.XML 8.1 |
|---|---|
| Base | xs:string |
| maxLength | 12 |
| minLength | 1 |
| whiteSpace | preserve |

## 6.11 **simpleType: s40**

| Tag | Mail.XML 8.1 |
|---|---|
| Base | xs:string |
| maxLength | 40 |
| minLength | 1 |
| whiteSpace | preserve |

## 6.12 **simpleType: s50**

| Tag | Mail.XML 8.1 |
|---|---|
| Base | xs:string |
| maxLength | 50 |
| minLength | 1 |
| whiteSpace | preserve |

## 6.13 **simpleType: s64**

| Tag | Mail.XML 8.1 |
|---|---|
| Base | xs:string |
| maxLength | 64 |
| minLength | 1 |
| whiteSpace | preserve |

## 6.14 **simpleType: s260**

| Tag | Mail.XML 8.1 |
|---|---|
| Base | xs:string |
| maxLength | 260 |
| minLength | 1 |
| whiteSpace | preserve |

# 7. Appendix C - WSDLs and XSDs

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

**PULL WSDL LINKS FOR TEM ENVIRONMENT**

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

***STRING-TYPE WSDL URL Link(s)***

https://mailxmltem.uspspostalone.com/MLXMLServicesWeb/services/POAppointmentServices/wsdl/POAppointmentServices-MailXML60.wsdl

***MESSAGE-TYPE WSDL URL Link(s)***

*The following link supports Mail.XML 8.1 version:*
https://mailxmltem.uspspostalone.com/MailXML81ALLMsgType/WebServices/wsdl/USPSMailXML81ALLMsgType.wsdl
*The following link supports Mail.XML Modular Specification (9.x 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. In Release 25 – only Mailing, Supply Chain and Transportation (limited messages) will be supported.*
***Mailing:***
*https://mailxmltem.uspspostalone.com/Mailing/WebServices/wsdl/Mailing.wsdl*
***Supply Chain:***
*https://mailxmltem.uspspostalone.com/SupplyChain/WebServices/wsdl/SupplyChain.wsdl*
***Transportation:***
*https://mailxmltem.uspspostalone.com/Transportation/WebServices/wsdl/Transportation.wsdl*
***Data Distribution:***
*https://mailxmltem.uspspostalone.com/DataDistribution/WebServices/wsdl/DataDistribution.wsdl*
***Identification:***
*https://mailxmltem.uspspostalone.com/Identification/WebServices/wsdl/Identification.wsdl*

**PULL WSDL LINKS FOR PRODUCTION ENVIRONMENT**

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

***STRING-TYPE WSDL URL Link(s)***

https://fast.uspspostalone.com/MLXMLServicesWeb/services/POAppointmentServices/wsdl/POAppointmentServices-MailXML60.wsdl

***MESSAGE-TYPE WSDL URL Link(s)***

*The following link supports Mail.XML 8.1 version:*
https://p1webservices.uspspostalone.com/MailXML81ALLMsgType/WebServices/wsdl/USPSMailXML81ALLMsgType.wsdl
*The following link supports Mail.XML Modular Specification (9.x 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. In Release 25 – only Mailing, Supply Chain and Transportation (limited messages) will be supported.*

**Mailing:**
https://p1webservices.uspspostalone.com/Mailing/WebServices/wsdl/Mailing.wsdl
**Supply Chain:**
https://p1webservices.uspspostalone.com/SupplyChain/WebServices/wsdl/SupplyChain.wsdl
**Transportation:**
https://p1webservices.uspspostalone.com/Transportation/WebServices/wsdl/Transportation.wsdl
**Data Distribution:**
https://p1webservices.uspspostalone.com/DataDistribution/WebServices/wsdl/DataDistribution.wsdl
**Identification:**
https://p1webservices.uspspostalone.com/Identification/WebServices/wsdl/Identification.wsdl

**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 both string-type and message-type WSDLs:

**STRING-TYPE PUSH WSDL**

The customer need to provide URL for their Web Server and uses the following WSDL for all Mail.XML versions i.e. 8.1.The String-type Push WSDL will retire after Mail.XML 9.0X release. USPS encourage users to move to message-type WSDL as soon as possible.

WSDL NAME: POCustomerMailXMLServices.wsdl

**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 8.1. The Message-type WSDL will be strictly implemented post Mail.XML 9.0X version

For Mail.XML 8.1 – following WSDL name shall be used:

WSDL NAME: UserMailXML81PushMsgType.wsdl

For Mail.XML 9.1 & 10.0 and future versions – following WSDL name shall be used:

WSDL NAME for Data Distribution: DataDistributionPush.wsdl

WSDL NAME for Transportation: TransportationPush.wsdl

**PUSH MESSAGES XSD NAME CHANGES INFORMATION**

The USPS is implementing a new XSD name to support Mail.XML 8.1, and Mail.XML 9.0B Push subscription messages.