Postal Service Mail.XML 10.0

Electronic Application Process

For

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

Release 8 January 2012
Release 9 April 2012
Release 10 June 2012

Version 4.0

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.

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Document Change History

These are the changes from Mail.XML 10.0 MID-CRID Version 3.0 to Mail.XML 10.0 MID-CRID Version 4.0

Date	Section #	Title	Description
06/06/12	All		Fixed formatting throughout the document
06/06/12	All		Updated footer and cover page

These are the changes from Mail.XML 10.0 MID-CRID Version 2.1 to Mail.XML 10.0 MID-CRID Version 3.0

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

These are the changes from Version 2.0 to Version 2.1

Date	Section #	Title	Description
03/13/2012	2.1.3	USPS CRID Create Request Overview	Updated the table of USPS CRID Create Request by removing the shading in the row
03/13/2012	2.2.3	USPS MID Create Request Overview	Updated the table of USPS MID Create Request by removing the shading in the row
03/13/2012	All		Updated date and document version in the footer and front page
03/13/2012	All		Removed the watermark seal

These are the changes from Version 1.6.9 to Version 2.0

Date	Section #	Title	Description
03/01/2012			Added a new disclaimer on the second page of the document
03/01/2012	1.4	What is Mail.XML	Corrected the tense of the third paragraph to refer to the version in the present tense rather than the future

Date	Section #	Title	Description
03/01/2012	4.4	USPSCRIDCreateResponse	Corrected the length of TrackingID from s20 to s12
03/01/2012	4.4	USPSCRIDCReateResponse	Corrected the business rule of ReturnInfo from Optional to Required in the Reject block
03/01/2012	4.2	USPSMIDCreateResponse	Added the following comment to Submittingparty "SubmittingParty attributes not required by XSD,but CRID attribute in SubmittingParty is required by application to validate the user" in the table of field description
03/01/2012	4.2	USPSMIDCreateResponse	Corrected the length of TrackingID from s20 to s12
03/01/2012	4.1	USPSMIDCreateRequest	Added the following comment to SubmittingParty "SubmittingParty attributes not required by XSD,but CRID attribute in SubmittingParty is required by application to validate the user" in the table of field description
03/01/2012	4.1	USPSMIDCreateRequest	Added SubmittingParty to the prerequisites since it is required per business rules
03/01/2012	2.2	Requesting MIDs using Mail.XML web services	Revised the note to focused on MID specifications
03/01/2012	1.5	Roadmap of Mail.XML	-Revised the verbiage of the text in this section -Added June 2012 and the supported Mail.XML supported versions the table

These are the changes from Version 1.6.8 to Version 1.6.9

Date	Section #	Title	Description
01/25/2012	2.2	USPS MID Create Request Overview	Changed the title of this section From "USPS MID Create Request Overview" To "Requesting MIDs using Mail.XML Web Services"
01/25/2012	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 1.6.7 to Version 1.6.8

Date	Section #	Title	Description
01/20/2012	All		Updated document version in the footer and front page
01/20/2012	All		Removed the watermark from the document

Following are the changes from Version 1.6.6 to Version 1.6.7

Date	*Section #*	*Title*	*Description*
01/09/2012	All		Edited document front page to include Release 8
01/09/2012	All		Updated document version and date in the footer

Following are the changes from Version 1.6.5 to Version 1.6.6

Date	*Section #*	*Title*	*Description*
01/05/2012	6.0	Appendix B- Simple Types Data Structure	Updated the text about the yellow highlight marking changes of data structures from the previous Mail.XML version
01/05/2012	3.0	MID and CRID Mail.XML Messages Overview	Update Return info to be Optional in Accept block and Required in Reject block across all Response messages
01/05/2012	All		Corrected: “Refer this complex type in Appendix B” with “Refer to this simple type in Appendix A”
01/05/2012	All		Corrected: “Refer this simple type in Appendix C” with “Refer to this simple type in Appendix B”
01/05/2012	1.4	What is Mail.XML?	Updated the Mail.XML version and release date
01/05/2012	1.7	Environments Supported by USPS	Updated the text of the Environments Supported by USPS section
01/05/2012	1.5	Roadmap of Mail.XML	Updated the table of Mail.XML supported versions per release date
01/05/2012	1.3	Intended Audience	Updated Purpose section text
01/05/2012	1.2	Purpose	Updated the text of the Purpose section
01/05/2012	1.1	Overview	Updated the text of the Overview section
01/05/2012	5.3	LegalAknowledgmentBlockMIDType	Updated the text of the LegalAcknowledgmentblock Complex Type
01/05/2012	5.2	LegalAknowledgmentBlockCRIDType	Updated the text of the Legal Acknowledgment block

Following are the changes from Version 1.6.4 to Version 1.6.5

Date	*Section #*	*Title*	*Description*

Date	Section #	Title	Description
12/15/2011		Header & Footer	Updated Header & Footer
09/29/2011	All		Changed the number of CRID and MID requests to be sent at a time from fifty (50) for both to twenty (20) for CRID and two (2) for MID for more efficient processing of the request.
09/29/2011	2.0	MID and CRID Application Process	Added **Note2:** The MID and CRID systems are extremely slow. It is therefore recommended to send CRIDs and MIDs in groups of twenty (20) CRID or two (2) MID requests. 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.
09/29/2011	All		Replace Mail.XML 10.0 by Mail.XML 10.0 given that the latest Mail.XML supporting USPSMIDCreateRequest and USPSCRIDCreateRequest messages is version 10.0

Following are the changes from Version 1.6.3 to Version 1.6.4

Date	Section #	Title	Description
Wed Aug 16,2011 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 b. Updated the Legal Acknowledgement Block MID Type with the complete legal statement c. Corrected references to other Complex and Simple Types
	Appendix B	Appendix B – Mail.XML 10.0 Complex and Attribute Groups Definitions	a. Updated the Legal Acknowledgement Block CRID Type with the complete legal statement b. Updated the Legal Acknowledgement Block MID Type with the complete legal statement 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. 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.

Date	Section #	Title	Description
			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. b. Reformatted the Prerequisites and Business Rules
	5.0	Data Structure and Business Rules for Mail.XML 10.0 Specification	a. Updated references to Complex Types; fixed the Appendix references. 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 Data Structure	Reduce the Simple Types to the ones only contained in MID/CRID Message and 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 10.0 specifications.
- Section 4.0: This section provides technical information (Data Structure and Business Rules) for all messages supported in Mail.XML 10.0 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, 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. Optional fields or new messages can be added without requiring every piece of 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 10.0 functionality, implemented in March 2010, has 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 10.0 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 the ability to request data on Customer Registration ID (CRID), and Mailer ID (MID). The specification also provides the mailing industry the ability 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, mailer's software manages the data transactions for query, create, update, and cancel business functions as well as the 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 till June 2012.

Release/Date	**Profile Management**
November 2011	V8.1(Pre-modular) and v10.0 (Modular)
January 2012	V10.0 (Modular) and v11.0D(Modular starting in January 2012)
April 2012	V10.0 and V11.0D (Modular starting in January 2012)
June 2012	V10.0 and V11.0D (Modular starting in January 2012), V12,X

The table below lists all Mail.XML Profiles Management messages for MIDs and CRIDs by versions. The versions listed below 10.0.

Table 1-1: Profiles Management Messages List for Mail.XML 10.0 Version

Message Name	Supported in Mail.XML 10.0
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 USPS supports to environments for electronic file submissions.

TEM (Testing Environment for Mailers): This environment is used for autorization 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 specifications 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 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="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 if the message contains invalid user information.

Types of WSDLS

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

- **Using 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 for later use in 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 they need to be manually registered in the code. The USPS is continuing to support 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.

- **Using Message-Type WSDLs:**

  This method eliminates the need for manually registering each service and message type in their environment. With this method, customers 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 is transitioning to this type of Message WSDL 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 it is recommended that everyone in the industry make plans to move to the Message-Type WSDLs.

The customer must use either string-type or message-type URL to use the services. These URLs 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 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 two (2) MID requests grouped in one message.

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 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 the 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 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 MID 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 in 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 the 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 the exact data format and required fields, please review the sections "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 Preconditions section 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 the Postal Service requests that only one successful CRID Create Request be processed, as the CRIDs get transmitted to the Production environment. In the production environment, 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 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 (USPSMIDCreateRequest)**

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. MID and CRID Mail.XML Messages Overview

3.1 Overview

As part of the Mail.XML 8.1 and Mail.XML 10.0 Web Services messages, USPS will allow mailers the capability to manage their corporate identification. Following is the list of Mail.XML messages supported after November 2011.

Following is the list of messages supported in Mail.XML 8.1 and Mail.XML 10.0 Specification with their description and details on each of these messages:

Table 2-1: Profile Management Messages Supported in Mail.XML 8.1 and Mail.XML 10.0

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,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, the CRID will be sent back to the mailer in the response message.

3.2 Profile Management Messages Workflow

All messages in the Profile Management family follow the “Pull” method where a user sends a request and expects to receive a response containing either the requested data or an error/return code.

There is no specific order in which the user must request or send messages. Users can request CRID or MID creation messages in any order.

3.3 Exceptions

Following is the list of exceptions identified by USPS.

Mail.XML Version	Exception Description
8.1 and 10.0	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 that 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 10.0 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 Desk	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 when 'ApplyingForSelf' is 'No'.	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 Desk	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 when 'ApplyingForSelf' is 'No'.	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 10.0 Specification

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):
    - MID
    - ApplyingForSelf
    - SubmittingParty

- 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

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 (Optional_
5. Optional to provide Permit Info
6. Company HQ Indicator – The accepted values are 'Yes' or 'No' (Optional)
7. Address Information (optional)
8. Sequence Number (Optional)
9. Applying for Self Indicator. Accepted values are 'Yes' or 'No' – Required
10. Legal Acknowledgment - Required to provide Legal Acknowledgment Block when Self Indicator is "No." This block requires following info:
    a. UnderstandLegalLiabilityForApplyingForSomeOneElse
    b. AcknowledgementNotifyingTheMailOwner
    c. USPSLegalAgreement

Field Description

Field	Format	Acceptable Value	Business Rules	Comments
USPSMIDCreateRequest 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
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	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	
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				

Field	Format	Acceptable Value	Business Rules	Comments
USPSMIDCreateRequest 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

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

Field Description

Field	Format	Acceptable Value	Business Rules	Comments
USPSMIDCreateResponse BEGINS				

Field	Format	Acceptable Value	Business Rules	Comments
TrackingID	String 12	-	Optional Allows the user to retrieve the data without requerying again.	
Choice Block BEGINS			1 to many allowed Either Accept or Reject block is returned	
USPSMIDCreateAccept Block BEGINS				
MID	MIDType complex type	-	Required 1 to many	Refer to this complex type in Appendix A
MIDStatus	mIDStatus Type simple type	-	Required	Refer to this simple type in Appendix B
MIDEntry	midEntryType complex type	-	Required	Refer to this complex type in Appendix A
ReturnInfo	basicReturnInfo complex type		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				
USPSMIDCreateResponse ENDS				

4.3 **USPSCRIDCreateRequest**

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 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.

Field Description

Field	Format	Acceptable Value	Business Rules	Comments
SubmittingParty	participantID Type complex type	-	Required	SubmittingParty attributes not required by XSD,but CRID attribute in SubmitingParty is required by application

Field	Format	Acceptable Value	Business Rules	Comments
				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
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	-	Optional	Refer to this complex type in Appendix A
CRIDEntryType ENDS				

4.4 **USPSCRIDCreateResponse**

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

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
   - REQUIRED return info block that contains return code and return description to communicate the issue

Field Description

Field	Format	Acceptable Value	Business Rules	Comments
USPSCRIDCreate Response BEGINS				
TrackingID	String 12	-	Optional Allows the user to retrieve the data without requerying it.	
Choice Block BEGINS			Required 1 to many allowed. Either QueryResults or QueryError block is returned	

Field	Format	Acceptable Value	Business Rules	Comments
USPSCRIDCreate Accept BEGINS			Required	
CRID	CRIDType	-	Required	Refer to this simple type in Appendix B
CRIDStatus	cRIDStatusType simple type	-	Required	Refer to this simple type in Appendix B
CRIDEntry	cridEntryType complex type	-	Required	Refer to this complex type in Appendix A
ReturnInfo	basicReturnInfo complex type	-	Optional	Refer to this complex type in Appendix A
USPSCRIDCreate Accept Block ENDS				
USPSCRIDCreate Reject 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
USPSCRIDCreate Reject Block ENDS				
USPSCRIDCreate Response ENDS				

5. Appendix A – Mail.XML 10.0 Complex and Attribute Groups Definitions

5.1 Complex Type: CRIDEntryType

Field	Format	Acceptable Value	Business Rules	Comments
CRIDEntryType BEGINS				
CompanyName	String 40		Required	-
PermitPublicationData	permitPublicationDataType complex type	-	Optional	Refer this complex type in Appendix B
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 set to No	Refer to this complex type in Appendix A
CRIDEntryType BEGINS				

5.2 Complex Type: LegalAknowledgmentBlockCRIDType

Field	Format	Acceptable Value	Business Rules	Comments
LegalAcknowledgementBlockCRIDType BEGINS				

Field	Format	Acceptable Value	Business Rules	Comments
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 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. 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. 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	-

Field	Format	Acceptable Value	Business Rules	Comments
			Guide to Intelligent Mail Letters and Flats and/or the link to access this guide. 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. 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. 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. 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. 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	

Field	Format	Acceptable Value	Business Rules	Comments
			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
AcknowledgeNotifyingTheMailOwner	yesNo simple type	-	Required	Refer to this simple type in Appendix B
USPSLegalAgreement	String		Required 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. 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	-

Field	Format	Acceptable Value	Business Rules	Comments
			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. 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. 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. 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. 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. 5. Mailing Agent acknowledges he has advised	

Field	Format	Acceptable Value	Business Rules	Comments
			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. 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.	
LegalAcknowledgementBlockMIDType ENDS				

5.4 **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	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	
ZipCode	Numeric String 5		Optional	
SequenceNumber	Integer		Optional	
ApplyingForSelf	yesNo simple type	-	Required	Refer to this simple type in

Field	Format	Acceptable Value	Business Rules	Comments
				Appendix B
LegalAcknowledgment Block	legalAcknowledgementBlockMIDType complex type	-	Optional	Refer to this complex type in Appendix A
midEntryType ENDS				

5.5 **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				

5.6 **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	permitTypeType simple type	-	Required	Refer to this simple type in Appendix B

Field	Format	Acceptable Values	Business Rules	Comments
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				

5.7 **Complex Type: basicReturnInfo**

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

5.8 **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

Field	Format	Acceptable Values	Business Rules	Comments
				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	-

5.9 **Complex Type: SubmittingSoftware**

Field	Format	Acceptable Values	Business Rules	Comments
SoftwareName	String		Required	
Vendor	String		Required	
Version	String		Required	
ApprovalDate	Date	YYYY-MM-DD	Optional	Changed the type to 'Date' based on errata
ApprovalKey	String		Optional	

5.10 **Complex Type: VerificationErrorType**

Field	Format	Acceptable Value	Business Rules	Comments
Sequence Block BEGIN			Optional 0 to many allowed	
VerificationErrorCode	Numeric String 4		Required	
VerificationError Description Sequence Block END	String 260		Optional	

6. Appendix B – Simple Types Data Structure

The simple types below list variations 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 v10.0 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.
NOTE: The Mail.XML 7.0C and 10.0B versions will no longer be supported from October 2011 thus all references to 7.0C and 10.0B have been removed from this guide including simple types definitions.

6.1 simpleType: cRIDStatusType

Tag	Mail.XML 10.0
Base	xs:string
enumeration	New
enumeration	Existing

6.2 simpleType: CRIDType

Tag	Mail.XML 10.0
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 10.0
Base	xs:string
enumeration	New
enumeration	Existing

6.6 simpleType: ns04

Tag	Mail.XML 10.0
Base	xs:string
pattern	[0-9]{4}

6.7 simpleType: ns05

Tag	Mail.XML 10.0
Base	xs:string
pattern	[0-9]{5}

6.8 simpleType: ns09

Tag	Mail.XML 10.0
Base	xs:string
pattern	[0-9]{9}

6.9 simpleType: permitTypeType

Tag	Mail.XML 10.0
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 10.0
Base	xs:string
maxLength	12
minLength	1
whiteSpace	preserve

6.11 simpleType: s40

Tag	Mail.XML 10.0
Base	xs:string
maxLength	40
minLength	1
whiteSpace	preserve

6.12 simpleType: s50

Tag	Mail.XML 10.0
Base	xs:string
maxLength	50
minLength	1
whiteSpace	preserve

6.13 simpleType: s64

Tag	Mail.XML 10.0
Base	xs:string
maxLength	64
minLength	1
whiteSpace	preserve

6.14 **simpleType: s260**

Tag	Mail.XML 10.0
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.