



MailXML Version 19.0

System Messages Specification

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Abstract

This document describes the messaging protocol for use by mailers and their consignees. The Mail.XML™ Transaction Protocol defines the roles and responsibilities of Shippers and Consignees and defines the format and method for message exchange. This messaging protocol is designed to be XML and Web-Services compliant and to work with FAST.

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About MailXML™

Mail.XML™ is bringing a paradigm change to the industry by increasing business function specific B2B (Business to Business) communication within the industry that supports automation and in the end enables cost avoidance and higher profits through improved competence and effectiveness of communication. Mail.XML is designed to increase efficiency and lower costs by removing many manual data entry processes and enabling quick near real time communication between business partners. Mail.XML currently supports container based scheduling, pick up and drop off business processes, as well as identifying different business entities responsible for performing different services such as quality of mailing, address correction, and delivery confirmation on a mailing.

The core focus of Mail.XML is communication between industry members and from industry to the final mail processing and delivery organization that delivers the mail to the end consumer, e.g., USPS. In the next few versions of Mail.XML the focus moves across mailing supply chain channels, and includes advanced functions such as payment; automated verification; enabling first, second, and third party communication and incorporating presort planning, printing, and distribution processes.

What's New in MailXML Version 19.0?

With this release, the Mail.XML Messaging Protocol moves to Version 19.0. This is a MAJOR release. This release supports ongoing USPS modernization and automation efforts for 2015.

Changes supported by MailXML 19.0 include:

- USPS plans to eliminate the Flats Sequencing System (FSS) pricing cells from price tables and postage statements and manage FSS mail preparation through existing mailing standards and labeling lists as outlined in DMM sections 705 and 708. The flats mailings qualify for the prices based on the sortation level and entry location, regardless of entry to FSS or non FSS zones. Destination entered working bundles at an FSS site will receive destination sectional center facility (DSCF) destination entry discounts. This applies to Standard Mail Flats, Periodicals Flats, and Bound Printed Matter Flats. Enumerations that specifically identify "FSS" are removed from the specification.
- The USPS plans to create a process by which mailers can provide additional supporting content (in the form of digital addresses or URLs) that can then be associated and displayed with the scanned images of mail pieces on the USPS Informed Delivery application dashboard, enhancing the customers experience. This applies to letters and flats of all classes.

- The USPS plans to redesign Collect on Delivery (COD) service to require that the package is held at the Retail office under the Hold for Pickup (HFPU) service. COD mail will be held at the Retail offices for recipient to pick up. The existing COD services will be relabeled as “COD HFPU” and “COD HFPU-Restricted Delivery.” This is a documentation change only.
- The USPS plans to add the EntryLocaleKey element to the abstractPeriodicalStatementDataType because the periodical child statements are also being generated by the entry locale key (in addition to the entry Postal code).
- :The USPS plans to require the MailingGroupID in the MailXMLHeaderInfo attribute group as part of cleanup as all current industry users populate this now.

About MailXML Schema Modularization

Today Mail.XML messages are grouped into 8 message types.

- Transportation Messages (TM)
- Mailing Messages (MM)
- Data Distribution Messages (DD)
- Identification Messages (ID)
- Supply Chain Messages (SC)
- Informed Visibility (IV)
- System Messages
- Base: Shared simple types
- Definitions: Shared complex types and elements

The simple types shared across 2 or more modules are found in the Base schema. Likewise the shared definitions module contains complex type definitions and elements that are shared across 2 or more modules.

MailXML Module Versioning Rules

The following versioning rules will be followed:

- The MailXML wrapper schema`**`.xsd) will always be given the next higher version number (or Errara designation) when any update is made to base, defs or any module. The name of the .xsd file will indicate the new version and the new version number will be used in the namespace and target declarations:
`xmlns:mailxml="http://idealliance.org/Specs/mailxml19.0/mailxml"`
`targetNamespace="http://idealliance.org/Specs/mailxml19.0/mailxml"`
- When updates are made, only those modules that are updated will be given the next higher version number (or Errara letter designation).

- If updates are made to the base or defs, then the base and defs xsds will be given the next higher version number (or Errata designation) **and** all modules that call to them will also be given the next higher version number (or Errata designation).

For example:

- If the wrapper version is labeled as
xmlns:mailxml="http://idealliance.org/Specs/mailxml15.0A/mailxml" then at least one of the XSDs is at same version such as filename = 'mailxml_15.0.A.xsd' <- Errata A
- If the wrapper version is labeled as
xmlns:mailxml="http://idealliance.org/Specs/mailxml15.0B/mailxml" then at least one of the XSDs is at same version such as filename = 'mailxml_15.0B.xsd' <- Errata B
- If the wrapper version is labeled as
xmlns:mailxml="http://idealliance.org/Specs/mailxml15.0/mailxml" then at least one of the XSDs is at same version such as filename = 'mailxml_15.0.xsd' <- Major Version

MailXML 19.0 XSD Modules:

The following MailXML XSD modules/namespaces are used:

- **mailxml_tm.xsd:** This module contains all the transportation (or FAST) messages and the attributes, elements and complex types that are *unique* to these messages. **Namespace=mailxml tm:**
- **mailxml_mm.xsd:** This module contains all the mailing messages (eDoc) and the attributes, elements and complex types that are *unique* to these messages. **Namespace=mailxml mm:**
- **mailxml_iv.xsd:** This module contains informed visibility messages and the attributes, elements and complex types that are *unique* to these messages. **Namespace=mailxml iv:**
- **mailxml_dd.xsd:** This module contains all the data distribution messages and the attributes, elements and complex types that are *unique* to these messages. **Namespace=mailxml dd:**
- **mailxml_id.xsd:** This module contains all the identification messages and the attributes, elements and complex types that are *unique* to these messages. **Namespace=mailxml id:**
- **mailxml_sc.xsd:** This module contains all the supply chain messages and the attributes, elements and complex types that are *unique* to these messages. **Namespace=mailxml sc:**
- **mailxml_defs.xsd:** This module contains all the common definitions of attributes, elements and complex types that are used across two or more message types. **Namespace=mailxml defs:**
- **mailxml_base.xsd:** This module contains simple types that are shared across two or more modules that make up mailxml. These can be considered a building block for any message group. **Namespace=mailxml base:**
- **mailxml.xsd:** This module contains the system messages of MailXML and is used to build custom profiles for MailXML. **Namespace=mailxml:**

The MailXML™ 19 Messaging Documentation Set

The Mail.XML Messaging Specification has been organized into a set of documents. This *Schemas Specification* is one document in a set of documents that make up the Mail.XML Specification 16.0.

Updates in this Specification are NOT backwardly compatible with previous versions. Other documents in the specification set include:

- *Mail.XML™ 19.0: Transportation Messaging Specification* documents all transportation messages
- *Mail.XML™ 19.0: Mailing Messaging Specification* documents all mailing messages
- *Mail.XML™ 19.0: Informed Visibility Specification* documents all informed visibility messages
- *Mail.XML™ 19.0: Data Distribution Messaging Specification* documents all data distribution messages
- *Mail.XML™ 19.0: Identification Messaging Specification* documents all identification messages
- *Mail.XML™ 19.0: Supply Chain Messaging Specification* documents all supply chain messages
- *Mail.XML™ 19.0: System Messaging Specification* documents all systems and fault messages
- *Mail.XML™ 19.0: Simple Types Specification* documents all simple types used across MailXML messages
- *Mail.XML™ 19.0: Common Definitions Specification* documents all shared elements and complex types.
- *Mail.XML™ 19.0: Schemas* contains the .XSDs that make up the MailXML Messaging Specification

Table of Contents

Abstract	Error! Bookmark not defined.
About Mail.XML™	Error! Bookmark not defined.
What’s New in Mail.XML Version 19.0?	Error! Bookmark not defined.
About MailXML Schema Modularization	Error! Bookmark not defined.
MailXML Module Versioning Rules	Error! Bookmark not defined.
MailXML 19.0 XSD Modules:	Error! Bookmark not defined.
The Mail.XML™ 17 Messaging Documentation Set	Error! Bookmark not defined.
1 Index	7
2 Elements, Attributes and Complex Types	Error! Bookmark not defined.

1 Index