

# ***Mail.XML Version 24.2***

## **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.

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## About Mail.XML™

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.

## About Mail.XML Schema Modularization

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

- Transportation Messages (TM)
- Mailing Messages (MM)
- Data Distribution Messages (DD)
- Dynamic Payment Template Messages
- 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.

## Mail.XML Module Versioning Rules

The following versioning rules will be followed:

The Mail.XML wrapper schema\*\*(.xsd) will always be given the next higher version number (or Errata 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://delivery-tech.org/Specs/mailxml24.2/mailxml targetNamespace=http://delivery-tech.org/Specs/mailxml24.2/mailxml

- When updates are made, only those modules that are updated will be given the next higher version number (or Errata 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://deliverytech.org/Specs/mailxml24.2A/mailxml" then at least one of the XSDs is at same version such as filename = 'Mail.XML\_24.2A.xsd' <- Errata A
- If the wrapper version is labeled as xmlns:mailxml="http://deliverytech.org/Specs/mailxml24.2B/mailxml" then at least one of the XSDs is at same version such as filename = 'Mail.XML\_24.2B.xsd' <- Errata B
- If the wrapper version is labeled as xmlns:mailxml="http://deliverytech.org/Specs/mailxml24.2/mailxml" then at least one of the XSDs is at same version such as filename = 'Mail.XML\_24.2.xsd' <- Major Version

## What's New in Mail.XML Version 24.2?

With this release, the Mail.XML Messaging Protocol moves to Version 24.2. This release supports structure changes required by mailing industry and Postal Service.

Changes supported by Mail.XML 24.2 include:

- CR 2510 - Proposal to update the campaignDataType complex type to be consistent with the USPS Informed Delivery product.
- CR 2508 / 2413 - Proposal to remove ServiceCodeType value of SA for Fragile and update the value description list. The service will not be supported by USPS
- CR 2509 / 2414 - Proposal to update and Add Rate Category values to support Containerizations Discount for USPS Marketing Mail Flats
- CR 2511 / 2415 - Proposal to update and Add Rate Category values to support Package Service Parcel Select Ground Cubic pricing

## Mail.XML 24.2 XSD Modules:

The following Mail.XML XSD modules/namespaces are used:

Note: Actual xsd filenames include the version number (e.g. *mailxml\_base\_24.2.xsd*).

- 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
- mailxml\_base.xsd: This module contains simple types that are shared across two or more modules that make up Mail.XML. These can be considered a building block for any message group. Namespace=mailxml\_base:
- mailxml.xsd: This module contains the system messages of Mail.XML and is used to build custom profiles for Mail.XML. Namespace=mailxml:

## The Mail.XML™ 24.2 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 24.2. Updates in this Specification are NOT backwardly compatible with previous versions. Other documents in the specification set include:

- Mail.XML™ 24.2: Transportation Messaging Specification documents all transportation messages
- Mail.XML™ 24.2: Mailing Messaging Specification documents all mailing messages
- Mail.XML™ 24.2: Informed Visibility Specification documents all informed visibility messages

- Mail.XML™ 24.2: Data Distribution Messaging Specification documents all data distribution messages
- Mail.XML™ 24.2: Identification Messaging Specification documents all identification messages
- Mail.XML™ 24.2: Supply Chain Messaging Specification documents all supply chain messages
- Mail.XML™ 24.2: System Messaging Specification documents all systems and fault messages
- Mail.XML™ 24.2: Simple Types Specification documents all simple types used across Mail.XML messages
- Mail.XML™ 24.2: Common Definitions Specification documents all shared elements and complex types.
- Mail.XML™ 24.2: Schemas contains the .XSDs that make up the Mail.XML Messaging Specification

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## Schema mailxml\_sc\_24.2.xsd

schema location: [..\MailXML v24.2 FINAL\mailxml\\_sc\\_24.2.xsd](#)  
attribute form default: **qualified**  
element form default: **qualified**  
targetNamespace: [http://delivery-tech.org/Specs/mailxml24.2/mailxml\\_sc](http://delivery-tech.org/Specs/mailxml24.2/mailxml_sc)

### Elements

[ContainerStatusDelivery](#)  
[ContainerStatusNotification](#)  
[ContainerStatusQueryRequest](#)  
[ContainerStatusQueryResponse](#)  
[OriginalContainerLinkageCancelRequest](#)  
[OriginalContainerLinkageCancelResponse](#)  
[OriginalContainerLinkageCreateRequest](#)  
[OriginalContainerLinkageCreateResponse](#)  
[PostageAdjustmentCreateRequest](#)  
[PostageAdjustmentCreateResponse](#)  
[SiblingContainerCancelRequest](#)  
[SiblingContainerCancelResponse](#)  
[SiblingContainerCreateRequest](#)  
[SiblingContainerCreateResponse](#)

### Complex types

[CSQBlockType](#)  
[linkageType](#)  
[linkingContainerIDType](#)

### Simple types

[adjustmentStatusType](#)  
[adjustmentType](#)  
[containerInfoIncludedInResponseFlagType](#)  
[creditDebitIndicator](#)



## Elements - Complex Types - Simple Types

element **ContainerStatusDelivery**

diagram	<p><b>ContainerStatusDelivery</b> Delivery of container status data from USPS.</p> <p><b>attributes</b></p> <ul style="list-style-type: none"> <li>grp mailxml_defs:LargeTrans...</li> <li>mailxml_defs:MessageGroupID</li> <li>mailxml_defs:TotalMessageCou...</li> <li>mailxml_defs:MessageSerialNu...</li> <li>mailxml_defs:TransmittedRecor...</li> <li>mailxml_defs:TotalRecordsAcro...</li> <li>mailxml_defs:LastMessage</li> </ul> <p>mailxml_sc:SubmittingParty</p> <p>mailxml_sc:SubmittingSoftware</p> <p>mailxml_defs:DataRecipient</p> <p>mailxml_sc:PushMessageID</p> <p>mailxml_sc:UserLicenseCode</p> <p>mailxml_sc:MaidatJobID</p> <p>mailxml_sc:CustomerGroupID</p> <p>mailxml_sc:MailingGroupID</p> <p>mailxml_sc:ContainerStatusInf... 1..∞</p>
namespace	http://delivery-tech.org/Specs/mailxml24.2/mailxml_sc
children	mailxml_sc:SubmittingParty mailxml_sc:SubmittingSoftware mailxml_defs:DataRecipient mailxml_sc:PushMessageID mailxml_sc:UserLicenseCode mailxml_sc:MaidatJobID mailxml_sc:CustomerGroupID mailxml_sc:MailingGroupID mailxml_sc:ContainerStatusInfoType
annotation	documentation Delivery of container status data from USPS.

## element ContainerStatusNotification

diagram	<p><b>ContainerStatusNotification</b> Notification from USPS that a container status information is ready for pickup.</p>
namespace	http://delivery-tech.org/Specs/mailxml24.2/mailxml_sc
children	mailxml_sc:SubmittingParty mailxml_sc:SubmittingSoftware mailxml_sc:PushMessageID mailxml_sc:UserLicenseCode mailxml_sc:MaildatJobID mailxml_sc:CustomerGroupID mailxml_sc:MailingGroupID mailxml_sc:AvailableRecordCount mailxml_sc:CsqBlockType mailxml_sc:NotificationDate
annotation	documentation Notification from USPS that a container status information is ready for pickup.

## element ContainerStatusQueryRequest

diagram	<p><b>ContainerStatusQueryRequest</b> Query request for container status.</p>
namespace	http://delivery-tech.org/Specs/mailxml24.2/mailxml_sc

children	<b>mailxml_sc:SubmittingParty</b> <b>mailxml_sc:SubmittingSoftware</b> <b>mailxml_sc:SubmitterTrackingID</b> <b>mailxml_sc:eInductionIndicator</b> <b>mailxml_sc:ContainerInfoIncludedInResponseFlag</b> <b>mailxml_sc:ConsigneeApptID</b> <b>mailxml_sc:ContentID</b> <b>mailxml_sc:ConsigneeContainerManifestID</b> <b>mailxml_sc:ContainerID</b> <b>mailxml_sc:UserLicenseCode</b> <b>mailxml_sc:MaildateJobID</b> <b>mailxml_sc:CustomerGroupID</b> <b>mailxml_sc:MailingGroupID</b> <b>mailxml_sc:IMcb</b>
annotation	documentation Query request for container status.

## element **ContainerStatusQueryResponse**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml24.2/mailxml_sc
children	<b>mailxml_sc:TrackingID</b> <b>mailxml_sc:SubmitterTrackingID</b> <b>mailxml_sc:QueryResults</b> <b>mailxml_defs:QueryError</b>
annotation	documentation Query response for container status.

## element **OriginalContainerLinkageCancelRequest**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml24.2/mailxml_sc
children	<b>mailxml_sc:SubmittingParty</b> <b>mailxml_sc:SubmittingSoftware</b> <b>mailxml_sc:SubmitterTrackingID</b> <b>mailxml_sc:CancelLinkage</b>
annotation	documentation Request to cancel the link between an original container to a sibling container.

## element **OriginalContainerLinkageCancelResponse**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml24.2/mailxml_sc
children	<b>mailxml_sc:TrackingID</b> <b>mailxml_sc:SubmitterTrackingID</b> <b>mailxml_sc:OriginalContainerLinkageCancelAccept</b> <b>mailxml_sc:OriginalContainerLinkageCancelReject</b>
annotation	documentation Response to the request to cancel the link between an original container to a sibling container.

## element OriginalContainerLinkageCreateRequest

diagram	
namespace	http://delivery-tech.org/Specs/mailxml24.2/mailxml_sc
children	mailxml_sc:SubmittingParty mailxml_sc:SubmittingSoftware mailxml_sc:SubmitterTrackingID mailxml_sc:CreateLinkage
annotation	documentation Request to link an original container with a sibling container.

## element OriginalContainerLinkageCreateResponse

diagram	
namespace	http://delivery-tech.org/Specs/mailxml24.2/mailxml_sc
children	mailxml_sc:TrackingID mailxml_sc:SubmitterTrackingID mailxml_sc:LinkedContainerCreateAccept mailxml_sc:LinkedContainerCreateReject
annotation	documentation Response to the request to link an original container with a sibling container.

## element **PostageAdjustmentCreateRequest**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml24.2/mailxml_sc
children	mailxml_sc:SubmittingParty mailxml_sc:SubmittingSoftware mailxml_sc:SubmitterTrackingID mailxml_sc:UserLicenseCode mailxml_sc:MaildatJobID mailxml_sc:CustomerGroupID mailxml_sc:MailingGroupID mailxml_sc:PostageAdjustment
annotation	documentation Request to create a postage adjustment.

## element **PostageAdjustmentCreateResponse**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml24.2/mailxml_sc
children	mailxml_sc:TrackingID mailxml_sc:SubmitterTrackingID mailxml_sc:PostageAdjustmentCreateAccept mailxml_sc:PostageAdjustmentCreateReject
annotation	documentation Response to a request to create a postage adjustment.

## element **SiblingContainerCancelRequest**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml24.2/mailxml_sc
children	mailxml_sc:SubmittingParty mailxml_sc:SubmittingSoftware mailxml_sc:SubmitterTrackingID mailxml_sc:OriginalContainer mailxml_sc:SiblingToDelete
annotation	documentation Request to cancel a sibling container.

namespace	http://delivery-tech.org/Specs/mailxml24.2/mailxml_sc
children	mailxml_sc:SubmittingParty mailxml_sc:SubmittingSoftware mailxml_sc:SubmitterTrackingID mailxml_sc:OriginalContainer mailxml_sc:SiblingToDelete
annotation	documentation Request to cancel a sibling container.

#### element SiblingContainerCancelResponse

diagram	<p>Response to a request to cancel a sibling container.</p>
namespace	http://delivery-tech.org/Specs/mailxml24.2/mailxml_sc
children	mailxml_sc:TrackingID mailxml_sc:SubmitterTrackingID mailxml_sc:SiblingContainerCancelAccept mailxml_sc:SiblingContainerCancelReject
annotation	documentation Response to a request to cancel a sibling container.

#### element SiblingContainerCreateRequest

diagram	<p>Request to create a uniquely identified sibling container by adding a sibling container to an existing Mail.dat.</p>
namespace	http://delivery-tech.org/Specs/mailxml24.2/mailxml_sc
children	mailxml_sc:SubmittingParty mailxml_sc:SubmittingSoftware mailxml_sc:SubmitterTrackingID mailxml_sc:OriginalContainer mailxml_sc:NewSiblingContainer mailxml_sc:ContainerType
annotation	documentation Request to create a uniquely identified sibling container by adding a sibling container to an existing Mail.dat.

#### element SiblingContainerCreateResponse

diagram	<p>Response to a request to create a uniquely identified sibling container by adding a sibling container to an existing Mail.dat</p>
namespace	http://delivery-tech.org/Specs/mailxml24.2/mailxml_sc

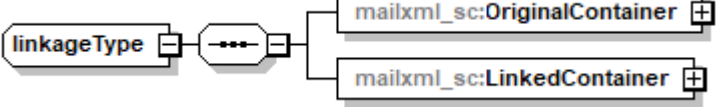
children	<b>mailxml_sc:TrackingID mailxml_sc:SubmitterTrackingID mailxml_sc:SiblingContainerCreateAccept mailxml_sc:SiblingContainerCreateReject</b>
annotation	documentation Response to a request to create a uniquely identified sibling container by adding a sibling container to an existing Mail.dat

### complexType CSQBlockType

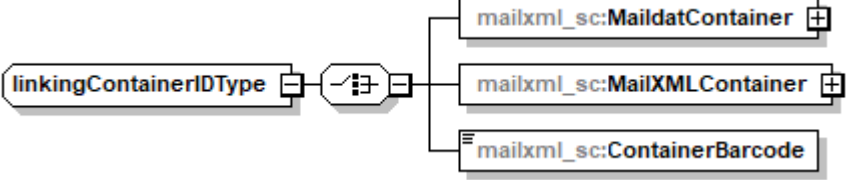
diagram	
namespace	<a href="http://delivery-tech.org/Specs/mailxml24.2/mailxml_sc">http://delivery-tech.org/Specs/mailxml24.2/mailxml_sc</a>
children	<b>mailxml_sc:UserLicenseCode mailxml_sc:MaildatJobID mailxml_sc:CustomerGroupID mailxml_sc:MailingGroupID mailxml_sc:ContainerKeysInfo mailxml_sc:ContainerDetail mailxml_sc:ConsolidatorCommunicationInfo mailxml_sc:PaymentInfo mailxml_sc:ApptInfo mailxml_sc:eDocFacility mailxml_sc:PlannedAppointmentFacility mailxml_sc:InductionFacility mailxml_sc:PreInductionInfo mailxml_sc:ContainerReleaseInfo mailxml_sc:InductionCloseoutInfo mailxml_sc:InductionIssues mailxml_sc:PostInductionInfo</b>
used by	element <b>ContainerStatusNotification/CSQBlockType</b>



### complexType linkageType

diagram	
namespace	http://delivery-tech.org/Specs/mailxml24.2/mailxml_sc
children	mailxml_sc:OriginalContainer mailxml_sc:LinkedContainer
used by	elements OriginalContainerLinkageCancelRequest/CancelLinkage OriginalContainerLinkageCancelResponse/OriginalContainerLinkageCancelAccept/CancelLinkage OriginalContainerLinkageCancelResponse/OriginalContainerLinkageCancelReject/CancelLinkage OriginalContainerLinkageCreateRequest/CreateLinkage OriginalContainerLinkageCreateResponse/LinkedContainerCreateAccept/LinkageCreated OriginalContainerLinkageCreateResponse/LinkedContainerCreateReject/LinkageRejected

### complexType linkingContainerIDType

diagram	
namespace	http://delivery-tech.org/Specs/mailxml24.2/mailxml_sc
children	mailxml_sc:MaildatContainer mailxml_sc:MailXMLContainer mailxml_sc:ContainerBarcode
used by	elements linkageType/LinkedContainer linkageType/OriginalContainer

### simpleType adjustmentStatusType

namespace	http://delivery-tech.org/Specs/mailxml24.2/mailxml_sc
type	restriction of <b>xs:string</b>
used by	element PostageAdjustmentCreateRequest/PostageAdjustment/AdjustmentStatus

### simpleType adjustmentType

namespace	http://delivery-tech.org/Specs/mailxml24.2/mailxml_sc
type	restriction of <b>xs:string</b>
used by	element PostageAdjustmentCreateRequest/PostageAdjustment/AdjustmentType

### simpleType containerInfoIncludedInResponseFlagType

namespace	http://delivery-tech.org/Specs/mailxml24.2/mailxml_sc
type	restriction of <b>xs:string</b>
used by	element ContainerStatusQueryRequest/ContainerInfoIncludedInResponseFlag

### simpleType creditDebitIndicator

namespace	http://delivery-tech.org/Specs/mailxml24.2/mailxml_sc
type	restriction of <b>xs:string</b>

used by	element	<b>PostageAdjustmentCreateRequest/PostageAdjustment/CreditDebitIndicator</b>
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XML Schema documentation generated by [XMLSpy](http://www.altova.com/xmlspy) Schema Editor <http://www.altova.com/xmlspy>