

Mail.XML Version 25.3

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.

Mail.XML and Mail.dat are trademarks of DTAC.

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.

What's New in Mail.XML Version 25.3?

With this release, the Mail.XML Messaging Protocol moves to Version 25.3. This release supports structure changes required by mailing industry and Postal Service.

Changes supported by Mail.XML 25.3 include:

- 2523 - Proposal to add support for Marriage Mail product
- 2524 - Proposal to support/Clarify Destination Hub for Parcel Select Destination Entry
- 2522 - Proposal to add support for USPS Ground Advantage product

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/mailxml25.3/mailxml"
targetNamespace="http://delivery-tech.org/Specs/mailxml25.3/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/mailxml25.3A/mailxml" then at least one of the XSDs is at same version such as filename = 'Mail.XML_25.3A.xsd' <- Errata A
- If the wrapper version is labeled as xmlns:mailxml="http://deliverytech.org/Specs/mailxml25.3B/mailxml" then at least one of the XSDs is at same version such as filename = 'Mail.XML_25.3B.xsd' <- Errata B

- If the wrapper version is labeled as xmlns:mailxml="http://deliverytech.org/Specs/mailxml25.3/mailxml" then at least one of the XSDs is at same version such as filename = 'Mail.XML_25.3.xsd' <- Major Version

Mail.XML 25.3 XSD Modules

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

- Mail.XML_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=Mail.XML_tm:
- Mail.XML_mm.xsd: This module contains all the mailing messages (eDoc) and the attributes, elements and complex types that are unique to these messages. Namespace=Mail.XML_mm:
- Mail.XML_iv.xsd: This module contains informed visibility messages and the attributes, elements and complex types that are unique to these messages. Namespace=Mail.XML_iv:
- Mail.XML_dd.xsd: This module contains all the data distribution messages and the attributes, elements and complex types that are unique to these messages. Namespace=Mail.XML_dd:
- Mail.XML_id.xsd: This module contains all the identification messages and the attributes, elements and complex types that are unique to these messages. Namespace=Mail.XML_id:
- Mail.XML_sc.xsd: This module contains all the supply chain messages and the attributes, elements and complex types that are unique to these messages. Namespace=Mail.XML_sc:
- Mail.XML_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=Mail.XML_defs:
- Mail.XML_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=Mail.XML_base:
- Mail.XML.xsd: This module contains the system messages of Mail.XML and is used to build custom profiles for Mail.XML. Namespace=Mail.XML:

The Mail.XML™ 25.3 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 25.3. Updates in this Specification are NOT backwardly compatible with previous versions. Other documents in the specification set include:

- Mail.XML™ 25.3: Transportation Messaging Specification documents all transportation messages
- Mail.XML™ 25.3: Mailing Messaging Specification documents all mailing messages
- Mail.XML™ 25.3: Informed Visibility Specification documents all informed visibility messages
- Mail.XML™ 25.3: Data Distribution Messaging Specification documents all data distribution messages
- Mail.XML™ 25.3: Identification Messaging Specification documents all identification messages
- Mail.XML™ 25.3: Supply Chain Messaging Specification documents all supply chain messages
- Mail.XML™ 25.3: System Messaging Specification documents all systems and fault messages
- Mail.XML™ 25.3: Simple Types Specification documents all simple types used across Mail.XML

- messages
- Mail.XML™ 25.3: Common Definitions Specification documents all shared elements and complex types.
- Mail.XML™ 25.3: Schemas contains the .XSDs that make up the Mail.XML Messaging Specification

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Schema mailxml_sc_25.3.xsd	8

Schema mailxml_sc_25.3.xsd

schema location: [..\XSDs\mailxml_sc_25.3.xsd](#)
attribute form default: **qualified**
element form default: **qualified**
targetNamespace: **http://delivery-tech.org/Specs/mailxml25.3/mailxml_sc**

Elements

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

Complex types

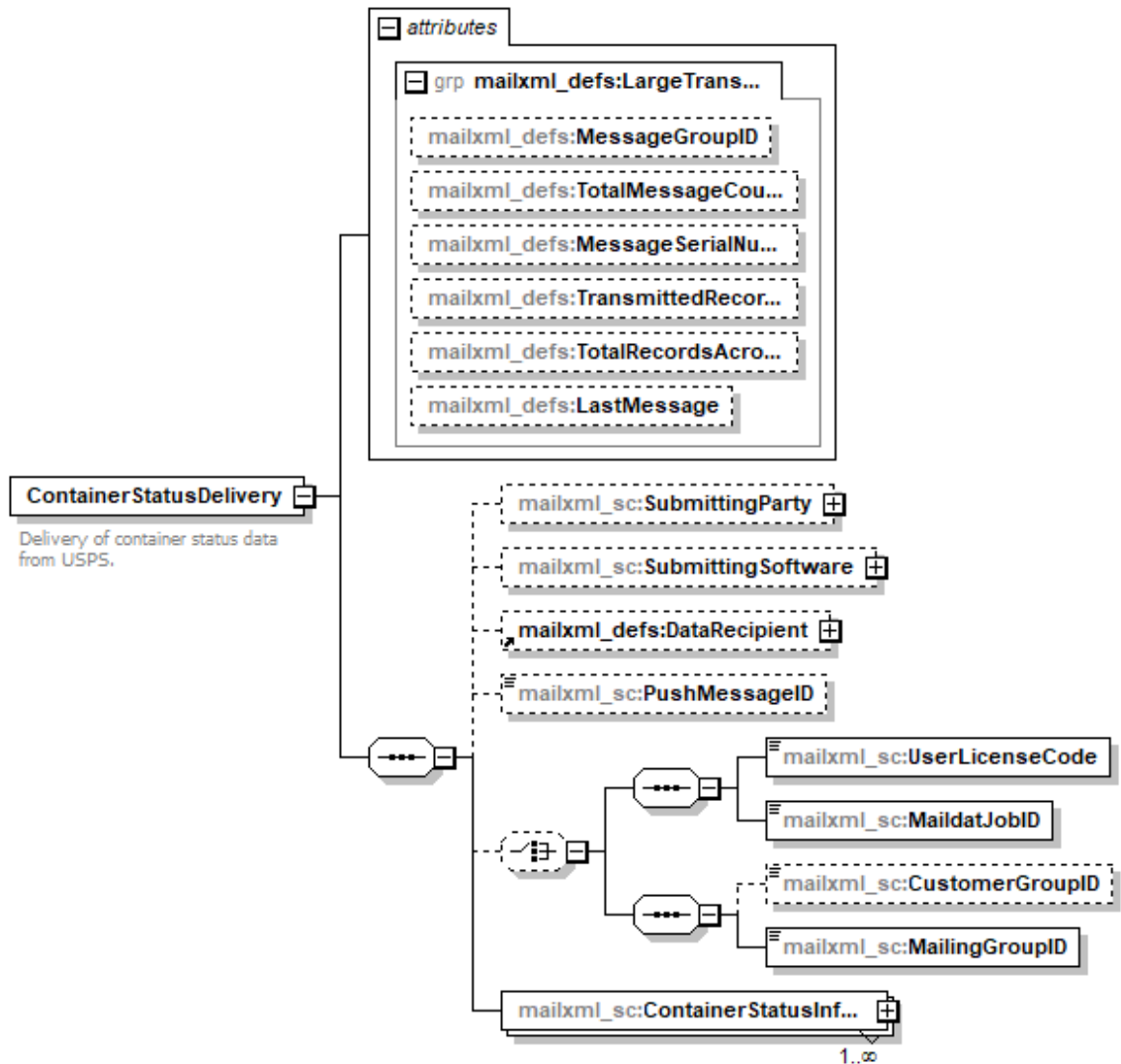
[CSQBlockType](#)
[linkageType](#)
[linkingContainerIDType](#)

Simple types

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

element ContainerStatusDelivery

diagram



namespace http://delivery-tech.org/Specs/mailxml25.3/mailxml_sc

annotation
documentation
Delivery of container status data from USPS.

element ContainerStatusNotification

diagram	<p>ContainerStatusNotification Notification from USPS that a container status information is ready for pickup.</p>
namespace	http://delivery-tech.org/Specs/mailxml25.3/mailxml_sc
annotation	documentation Notification from USPS that a container status information is ready for pickup.

element ContainerStatusQueryRequest

diagram	<p>ContainerStatusQueryRequest Query request for container status.</p>
namespace	http://delivery-tech.org/Specs/mailxml25.3/mailxml_sc
annotation	documentation Query request for container status.

namespace	http://delivery-tech.org/Specs/mailxml25.3/mailxml_sc
annotation	documentation Query request for container status.

element
 ContainerStatusQueryResponse

<div> <div>diagram</div> <div> <p>The diagram illustrates the structure of the ContainerStatusQueryResponse element. It is a container element with a description: "Query response for container status." The structure is as follows:</p> <ul style="list-style-type: none"> Attributes: A group of attributes is defined under the namespace <code>mailxml_defs</code>: <ul style="list-style-type: none"> <code>mailxml_defs:LargeTrans...</code> (group) <code>mailxml_defs:MessageGroupID</code> <code>mailxml_defs:TotalMessageCou...</code> <code>mailxml_defs:MessageSerialNu...</code> <code>mailxml_defs:TransmittedRecor...</code> <code>mailxml_defs:TotalRecordsAcro...</code> <code>mailxml_defs>LastMessage</code> Children: <ul style="list-style-type: none"> A sequence container (indicated by a circle with three dots) containing: <ul style="list-style-type: none"> <code>mailxml_sc:TrackingID</code> <code>mailxml_sc:SubmitterTrackingID</code> A choice container (indicated by a circle with a vertical line and a plus sign) containing: <ul style="list-style-type: none"> <code>mailxml_sc:QueryResults</code> <code>mailxml_defs:QueryError</code> (with description: "Error issued when the query data cannot be provided.") </div> </div>	<div> <div>namespace</div> <div>http://delivery-tech.org/Specs/mailxml25.3/mailxml_sc</div> </div> <div> <div>annotation</div> <div>documentation Query response for container status.</div> </div>
--	---

element **OriginalContainerLinkageCancelRequest**

diagram	<p>The diagram shows the structure of the OriginalContainerLinkageCancelRequest element. It is a container element with a description: "Request to cancel the link between an original container to a sibling container." The structure includes:</p> <ul style="list-style-type: none"> An attributes group containing: <ul style="list-style-type: none"> A grp mailxml_defs:MailXMLHea... group containing: <ul style="list-style-type: none"> mailxml_defs:CustomerGroupID (dashed box) mailxml_defs:MailingGroupID (solid box) mailxml_defs:MaildatJobID (dashed box) mailxml_defs:UserLicenseCode (dashed box) A sequence of four child elements: <ul style="list-style-type: none"> mailxml_sc:SubmittingParty (solid box) mailxml_sc:SubmittingSoftware (solid box) mailxml_sc:SubmitterTrackingID (dashed box) mailxml_sc:CancelLinkage (solid box) <p>The sequence of child elements is enclosed in a container with a cardinality of 1..∞.</p>
namespace	http://delivery-tech.org/Specs/mailxml25.3/mailxml_sc
annotation	documentation Request to cancel the link between an original container to a sibling container.

element **OriginalContainerLinkageCancelResponse**

diagram	<p>The diagram shows the structure of the OriginalContainerLinkageCancelResponse element. It is a container element with a description: "Response to the request to cancel the link between an original container to a sibling container." The structure includes:</p> <ul style="list-style-type: none"> A sequence of two child elements: <ul style="list-style-type: none"> mailxml_sc:TrackingID (dashed box) mailxml_sc:SubmitterTrackingID (dashed box) A choice of two child elements: <ul style="list-style-type: none"> mailxml_sc:OriginalContainerLi... (solid box) mailxml_sc:OriginalContainerLi... (solid box) <p>The sequence of child elements is enclosed in a container with a cardinality of 1..∞.</p>
namespace	http://delivery-tech.org/Specs/mailxml25.3/mailxml_sc
annotation	documentation Response to the request to cancel the link between an original container to a sibling container.

element **OriginalContainerLinkageCreateRequest**

diagram	<p>The diagram shows the structure of the OriginalContainerLinkageCreateRequest element. It is a container element with a description: "Request to link an original container with a sibling container." The structure includes:</p> <ul style="list-style-type: none"> An attributes group containing: <ul style="list-style-type: none"> A grp mailxml_defs:MailXMLHea... group containing: <ul style="list-style-type: none"> mailxml_defs:CustomerGroupID (dashed box) mailxml_defs:MailingGroupID (solid box) mailxml_defs:MaildatJobID (dashed box) mailxml_defs:UserLicenseCode (dashed box) A sequence of four child elements: <ul style="list-style-type: none"> mailxml_sc:SubmittingParty (solid box) mailxml_sc:SubmittingSoftware (solid box) mailxml_sc:SubmitterTrackingID (dashed box) mailxml_sc:CreateLinkage (solid box) <p>The sequence of child elements is enclosed in a container with a cardinality of 1..∞.</p>
namespace	http://delivery-tech.org/Specs/mailxml25.3/mailxml_sc
annotation	documentation Request to link an original container with a sibling container.

element **OriginalContainerLinkageCreateResponse**

diagram	<p>The diagram shows the structure of the OriginalContainerLinkageCreateResponse element. It is a container element with a description: "Response to the request to link an original container with a sibling container." The structure includes:</p> <ul style="list-style-type: none"> A sequence of two child elements: <ul style="list-style-type: none"> mailxml_sc:TrackingID (dashed box) mailxml_sc:SubmitterTrackingID (dashed box) A choice of two child elements: <ul style="list-style-type: none"> mailxml_sc:LinkedContainerCr... (solid box) mailxml_sc:LinkedContainerCr... (solid box) <p>The sequence of child elements is enclosed in a container with a cardinality of 1..∞.</p>
namespace	http://delivery-tech.org/Specs/mailxml25.3/mailxml_sc
annotation	documentation Response to the request to link an original container with a sibling container.

element **PostageAdjustmentCreateRequest**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml25.3/mailxml_sc
annotation	documentation Request to create a postage adjustment.

element **PostageAdjustmentCreateResponse**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml25.3/mailxml_sc
annotation	documentation Response to a request to create a postage adjustment.

element **SiblingContainerCancelRequest**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml25.3/mailxml_sc

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/mailxml25.3/mailxml_sc
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/mailxml25.3/mailxml_sc
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/mailxml25.3/mailxml_sc
annotation	documentation Response to a request to create a uniquely identified sibling container by adding a sibling container to an existing Mail.dat

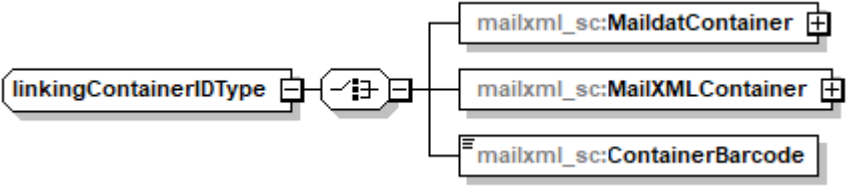
complexType CSQBlockType

diagram	
namespace	http://delivery-tech.org/Specs/mailxml25.3/mailxml_sc

complexType linkageType

diagram	
namespace	http://delivery-tech.org/Specs/mailxml25.3/mailxml_sc

complexType **linkingContainerIDType**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml25.3/mailxml_sc

simpleType **adjustmentStatusType**

namespace	http://delivery-tech.org/Specs/mailxml25.3/mailxml_sc
type	restriction of xs:string

simpleType **adjustmentType**

namespace	http://delivery-tech.org/Specs/mailxml25.3/mailxml_sc
type	restriction of xs:string

simpleType **containerInfoIncludedInResponseFlagType**

namespace	http://delivery-tech.org/Specs/mailxml25.3/mailxml_sc
type	restriction of xs:string

simpleType **creditDebitIndicator**

namespace	http://delivery-tech.org/Specs/mailxml25.3/mailxml_sc
type	restriction of xs:string