

Mail.XML Version 25.4

System Messages Specification

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Working Group Chair

Shawn Baldwin, BCC Software

Technical Director

Shariq Mirza, DTAC Associate, Assurety Consulting & Solutions

Editor

Shariq Mirza, DTAC Associate, Assurety Consulting & Solutions

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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.

What's New in Mail.XML Version 25.4?

With this release, the Mail.XML Messaging Protocol moves to Version 25.4. This release supports structure changes required by mailing industry and Postal Service.

Changes supported by Mail.XML 25.4 include:

- CR 2525 - Update characteristicIncentiveType, add FG for First-Class Growth Incentive Credit Redemption
- CR 2526 - Update characteristicIncentiveType, add MG for USPS Marketing Mail Growth Incentive Credit Redemption
- CR 2527 - Update containerLevelType, add AU for Protected Mixed ADC and AV for Protected Mixed NDC

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/mailxml25.4/mailxml"
targetNamespace="http://delivery-tech.org/Specs/mailxml25.4/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/mailxml25.4A/mailxml" then at least one of the XSDs is at same version such as filename ='Mail.XML_25.4A.xsd' <- Errata A
- If the wrapper version is labeled as xmlns:mailxml="http://deliverytech.org/Specs/mailxml25.4B/mailxml" then at least one of the XSDs is at same version such as filename ='Mail.XML_25.4B.xsd' <- Errata B
- If the wrapper version is labeled as xmlns:mailxml="http://deliverytech.

org/Specs/mailxml25.4/mailxml" then at least one of the XSDs is at same version such as
filename ='Mail.XML_25.4.xsd' <- Major Version

Mail.XML 25.4 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™ 25.4 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 25.4. Updates in this Specification are NOT backwardly compatible with previous versions. Other documents in the specification set include:

- Mail.XML™ 25.4: Transportation Messaging Specification documents all transportation messages
- Mail.XML™ 25.4: Mailing Messaging Specification documents all mailing messages
- Mail.XML™ 25.4: Informed Visibility Specification documents all informed visibility messages
- Mail.XML™ 25.4: Data Distribution Messaging Specification documents all data distribution messages
- Mail.XML™ 25.4: Identification Messaging Specification documents all identification messages
- Mail.XML™ 25.4: Supply Chain Messaging Specification documents all supply chain messages
- Mail.XML™ 25.4: System Messaging Specification documents all systems and fault messages
- Mail.XML™ 25.4: Simple Types Specification documents all simple types used across Mail.XML
- messages
- Mail.XML™ 25.4: Common Definitions Specification documents all shared elements and complex

- types.
- Mail.XML™ 25.4: Schemas contains the .XSDs that make up the Mail.XML Messaging Specification

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Schema mailxml_sc_25.4.xsd

schema location: [..\\XSDs\\mailxml_sc_25.4.xsd](#)
attribute form default: qualified
element form default: qualified
targetNamespace: http://delivery-tech.org/Specs/mailxml25.4/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](#)
[containerInfoIncludedInResponseType](#)
[creditDebitIndicator](#)

element **ContainerStatusDelivery**

diagram	<pre> classDiagram class ContainerStatusDelivery { <<Delivery of container status data from USPS.>> attributes grp mailxml_defs:LargeTrans... MessageGroupID TotalMessageCou... MessageSerialNu... TransmittedRecor... TotalRecordsAcro... LastMessage mailxml_sc:SubmittingParty mailxml_sc:SubmittingSoftware mailxml_defs:DataRecipient mailxml_sc:PushMessageID mailxml_sc:UserLicenseCode mailxml_sc:MaildatJobID mailxml_sc:CustomerGroupID mailxml_sc:MailingGroupID mailxml_sc:ContainerStatusInfo } } ContainerStatusDelivery < -- LargeTrans... LargeTrans... < -- grp mailxml_defs:LargeTrans... LargeTrans... < -- mailxml_sc:SubmittingParty LargeTrans... < -- mailxml_sc:SubmittingSoftware LargeTrans... < -- mailxml_defs:DataRecipient LargeTrans... < -- mailxml_sc:PushMessageID LargeTrans... < -- UserLicenseCode LargeTrans... < -- MaildatJobID LargeTrans... < -- CustomerGroupID LargeTrans... < -- MailingGroupID LargeTrans... < -- ContainerStatusInfo ContainerStatusInfo < -- mailxml_sc:ContainerStatusInfo </pre>
namespace	http://delivery-tech.org/Specs/mailxml25.4/mailxml_sc
annotation	documentation Delivery of container status data from USPS.

element ContainerStatusNotification

diagram	<pre> classDiagram class ContainerStatusNotification { 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 } ContainerStatusNotification < -- ContainerStatusQueryRequest ContainerStatusNotification --> mailxml_sc:SubmittingParty ContainerStatusNotification --> mailxml_sc:SubmittingSoftware ContainerStatusNotification --> mailxml_sc:PushMessageID ContainerStatusNotification --> mailxml_sc:UserLicenseCode ContainerStatusNotification --> mailxml_sc:MaildatJobID ContainerStatusNotification --> mailxml_sc:CustomerGroupID ContainerStatusNotification --> mailxml_sc:MailingGroupID ContainerStatusNotification --> mailxml_sc:AvailableRecordCount ContainerStatusNotification --> mailxml_sc:CSQBlockType ContainerStatusNotification --> mailxml_sc:NotificationDate </pre> <p>Container Status Notification Notification from USPS that a container status information is ready for pickup.</p>
namespace	http://delivery-tech.org/Specs/mailxml25.4/mailxml_sc
annotation	documentation Notification from USPS that a container status information is ready for pickup.

element ContainerStatusQueryRequest

diagram	<pre> classDiagram class ContainerStatusQueryRequest { mailxml_sc:SubmittingParty mailxml_sc:SubmittingSoftware mailxml_sc:SubmitterTrackingID mailxml_sc:eInductionIndicator mailxml_sc:ContainerInfoInclud... mailxml_sc:ConsigneeApptID mailxml_sc:ContentID mailxml_sc:ConsigneeContain... mailxml_sc:ContainerID mailxml_sc:UserLicenseCode mailxml_sc:MaildatJobID mailxml_sc:CustomerGroupID mailxml_sc:MailingGroupID mailxml_sc:IMcb } ContainerStatusQueryRequest < -- ContainerStatusNotification ContainerStatusQueryRequest --> mailxml_sc:SubmittingParty ContainerStatusQueryRequest --> mailxml_sc:SubmittingSoftware ContainerStatusQueryRequest --> mailxml_sc:SubmitterTrackingID ContainerStatusQueryRequest --> mailxml_sc:eInductionIndicator ContainerStatusQueryRequest --> mailxml_sc:ContainerInfoInclud... ContainerStatusQueryRequest --> mailxml_sc:ConsigneeApptID ContainerStatusQueryRequest --> mailxml_sc:ContentID ContainerStatusQueryRequest --> mailxml_sc:ConsigneeContain... ContainerStatusQueryRequest --> mailxml_sc:ContainerID ContainerStatusQueryRequest --> mailxml_sc:UserLicenseCode ContainerStatusQueryRequest --> mailxml_sc:MaildatJobID ContainerStatusQueryRequest --> mailxml_sc:CustomerGroupID ContainerStatusQueryRequest --> mailxml_sc:MailingGroupID ContainerStatusQueryRequest --> mailxml_sc:IMcb </pre> <p>Container Status Query Request Query request for container status.</p>
---------	--

namespace	http://delivery-tech.org/Specs/mailxml25.4/mailxml_sc
annotation	documentation Query request for container status.

element ContainerStatusQueryResponse

diagram	<p>The diagram illustrates the structure of the ContainerStatusQueryResponse element. It features a main class box labeled ContainerStatusQueryResponse with the description "Query response for container status." An association line connects this class to a box labeled attributes, which contains a group named grp mailxml_defs:LargeTrans.... This group holds several attributes: mailxml_defs:MessageGroupID, mailxml_defs:TotalMessageCou..., mailxml_defs:MessageSerialNu..., mailxml_defs:TransmittedRecor..., mailxml_defs:TotalRecordsAcro..., and mailxml_defs:LastMessage. Another association line connects the ContainerStatusQueryResponse class to a sequence of three objects: mailxml_sc:TrackingID, mailxml_sc:SubmitterTrackingID, and mailxml_sc:QueryResults. A fourth object, mailxml_defs:QueryError, is shown associated with mailxml_sc:QueryResults. A note at the bottom right states: "Error issued when the query data cannot be provided."</p>
namespace	http://delivery-tech.org/Specs/mailxml25.4/mailxml_sc
annotation	documentation Query response for container status.

element OriginalContainerLinkageCancelRequest

diagram	<p>The diagram shows the structure of the <code>OriginalContainerLinkageCancelRequest</code> element. It consists of several components:</p> <ul style="list-style-type: none">A main box labeled <code>OriginalContainerLinkageCanc...</code>.An <code>attributes</code> section containing:<ul style="list-style-type: none"><code>grp mailxml_defs:MailXMLHe...</code><code>mailxml_defs:CustomerGroupID</code><code>mailxml_defs:MailingGroupID</code><code>mailxml_defs:MaildatJobID</code><code>mailxml_defs:UserLicenseCode</code>A sequence of elements:<ul style="list-style-type: none"><code>mailxml_sc:SubmittingParty</code><code>mailxml_sc:SubmittingSoftware</code><code>mailxml_sc:SubmitterTrackingID</code><code>mailxml_sc:CancelLinkage</code>A multiplicity of <code>1..∞</code> at the end of the sequence.
namespace	http://delivery-tech.org/Specs/mailxml25.4/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 <code>OriginalContainerLinkageCancelResponse</code> element. It consists of several components:</p> <ul style="list-style-type: none">A main box labeled <code>OriginalContainerLinkageCanc...</code>.A sequence of elements:<ul style="list-style-type: none"><code>mailxml_sc:TrackingID</code><code>mailxml_sc:SubmitterTrackingID</code>A sequence of elements:<ul style="list-style-type: none"><code>mailxml_sc:OriginalContainerLi...</code><code>mailxml_sc:OriginalContainerLi...</code>
namespace	http://delivery-tech.org/Specs/mailxml25.4/mailxml_sc
annotation	documentation Response to the request to cancel the link between an original container to a sibling container.

element **OriginalContainerLinkageCreateRequest**

diagram	<pre> classDiagram class OriginalContainerLinkageCreateRequest { <<Request to link an original container with a sibling container.>> } class mailxml_defs { <<grp mailxml_defs:MailXMLHe...>> <<mailxml_defs:CustomerGroupID>> <<mailxml_defs:MailingGroupID>> <<mailxml_defs:MaildatJobID>> <<mailxml_defs:UserLicenseCode>> } class mailxml_sc { <<SubmittingParty>> <<SubmittingSoftware>> <<SubmitterTrackingID>> <<CreateLinkage>> } OriginalContainerLinkageCreateRequest "1..>" mailxml_sc : <<--->> mailxml_sc "1..>" mailxml_sc : <<--->> mailxml_sc "1..>" mailxml_sc : <<--->> mailxml_sc "1..>" mailxml_sc : <<--->> </pre> <p>Detailed description: This UML class diagram illustrates the structure of the <code>OriginalContainerLinkageCreateRequest</code> element. It consists of several components: a main request object, a group of XML definitions (<code>mailxml_defs</code>), and a submission context (<code>mailxml_sc</code>). The <code>mailxml_sc</code> context contains multiple instances of itself, suggesting a many-to-many relationship. The <code>mailxml_defs</code> group contains various identifiers like CustomerGroupID, MailingGroupID, MaildatJobID, and UserLicenseCode.</p>
namespace	http://delivery-tech.org/Specs/mailxml25.4/mailxml_sc
annotation	<p>documentation</p> <p>Request to link an original container with a sibling container.</p>

element **OriginalContainerLinkageCreateResponse**

diagram	<pre> classDiagram class OriginalContainerLinkageCreateResponse { <<Response to the request to link an original container with a sibling container.>> } class mailxml_sc { <<TrackingID>> <<SubmitterTrackingID>> <<LinkedContainerCr...>> <<LinkedContainerCr...>> } OriginalContainerLinkageCreateResponse --> mailxml_sc </pre> <p>Detailed description: This UML class diagram illustrates the structure of the <code>OriginalContainerLinkageCreateResponse</code> element. It consists of a response object and a submission context (<code>mailxml_sc</code>). The <code>mailxml_sc</code> context contains tracking information (TrackingID, SubmitterTrackingID) and linked container references (LinkedContainerCr...).</p>
namespace	http://delivery-tech.org/Specs/mailxml25.4/mailxml_sc
annotation	<p>documentation</p> <p>Response to the request to link an original container with a sibling container.</p>

element PostageAdjustmentCreateRequest

diagram	<pre> graph LR PA[PostageAdjustmentCreateReq...] --> SP[mailxml_sc:SubmittingParty] PA --> SS[mailxml_sc:SubmittingSoftware] PA --> STID[mailxml_sc:SubmitterTrackingID] PA --> LA[mailxml_sc:UserLicenseCode] PA --> MJID[mailxml_sc:MaildatJobID] PA --> CGID[mailxml_sc:CustomerGroupID] PA --> MGID[mailxml_sc:MailingGroupID] PA --> PA[mailxml_sc:PostageAdjustment] STID -.-> LA STID -.-> MJID STID -.-> CGID STID -.-> MGID PA --- PA </pre> <p>The diagram illustrates the structure of a PostageAdjustmentCreateRequest message. It consists of several required fields: SubmittingParty, SubmittingSoftware, and SubmitterTrackingID (indicated by a dashed box). The SubmitterTrackingID field is further divided into four optional fields: UserLicenseCode, MaildatJobID, CustomerGroupID, and MailingGroupID. All fields are enclosed within a main container labeled PostageAdjustment.</p>
namespace	http://delivery-tech.org/Specs/mailxml25.4/mailxml_sc
annotation	documentation Request to create a postage adjustment.

element PostageAdjustmentCreateResponse

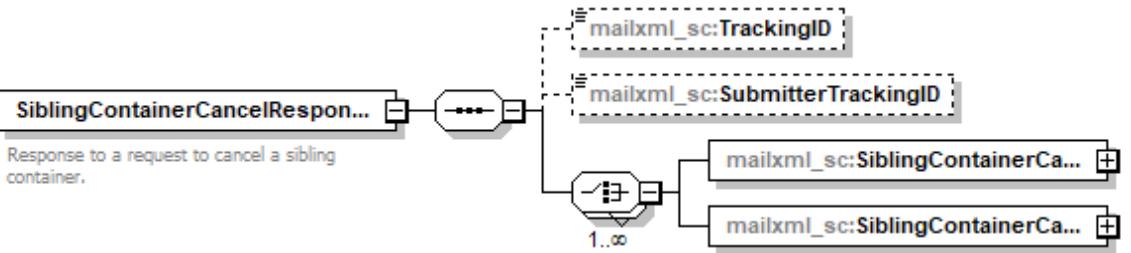
diagram	<pre> graph LR PACR[PostageAdjustmentCreateRes...] --> TRID[mailxml_sc:TrackingID] PACR --> STID[mailxml_sc:SubmitterTrackingID] PACR --> PA[mailxml_sc:PostageAdjustmen...] PACR --> PA[mailxml_sc:PostageAdjustmen...] TRID -.-> STID </pre> <p>The diagram illustrates the structure of a PostageAdjustmentCreateResponse message. It consists of several required fields: TrackingID (indicated by a dashed box), SubmitterTrackingID, and two PostageAdjustment fields. The TrackingID field is further divided into two optional fields: PostageAdjustment and PostageAdjustment.</p>
namespace	http://delivery-tech.org/Specs/mailxml25.4/mailxml_sc
annotation	documentation Response to a request to create a postage adjustment.

element SiblingContainerCancelRequest

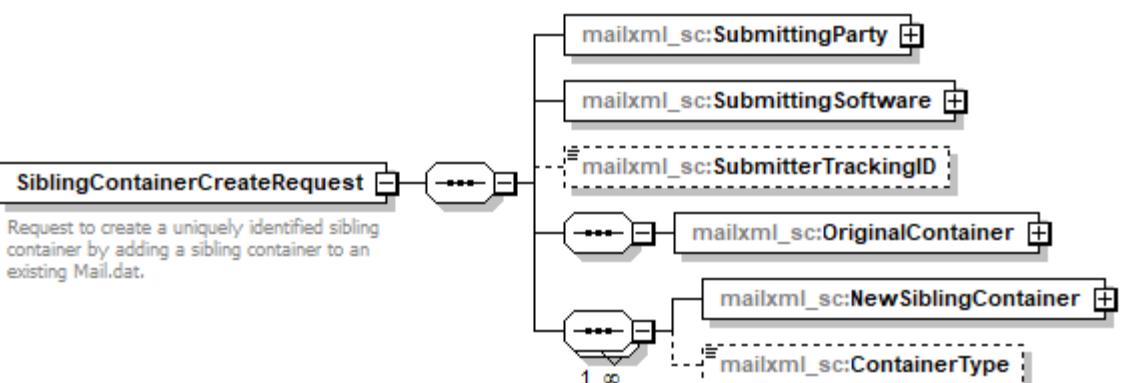
diagram	<pre> graph LR SCCR[SiblingContainerCancelRequest] --> SP[mailxml_sc:SubmittingParty] SCCR --> SS[mailxml_sc:SubmittingSoftware] SCCR --> STID[mailxml_sc:SubmitterTrackingID] SCCR --> OC[mailxml_sc:OriginalContainer] SCCR --> SCD[mailxml_sc:SiblingToDelete] OC --- SCD </pre> <p>The diagram illustrates the structure of a SiblingContainerCancelRequest message. It consists of several required fields: SubmittingParty, SubmittingSoftware, and SubmitterTrackingID (indicated by a dashed box). The OriginalContainer field is further divided into one optional field: SiblingToDelete. All fields are enclosed within a main container labeled SiblingContainerCancelRequest.</p>
namespace	http://delivery-tech.org/Specs/mailxml25.4/mailxml_sc

annotation	documentation Request to cancel a sibling container.
------------	---

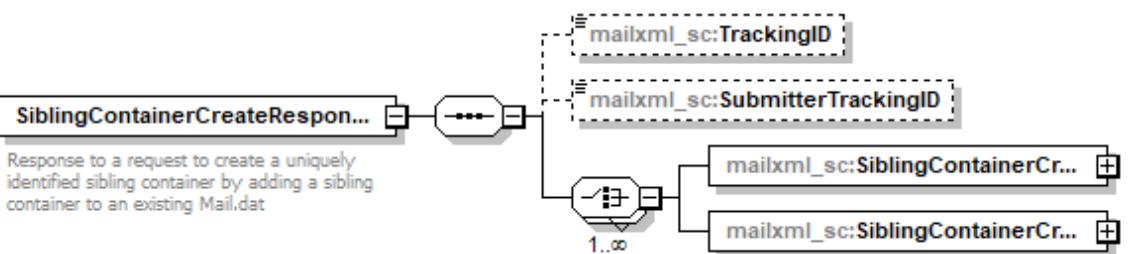
element SiblingContainerCancelResponse

diagram	 <p>Response to a request to cancel a sibling container.</p>
namespace	http://delivery-tech.org/Specs/mailxml25.4/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/mailxml25.4/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/mailxml25.4/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.

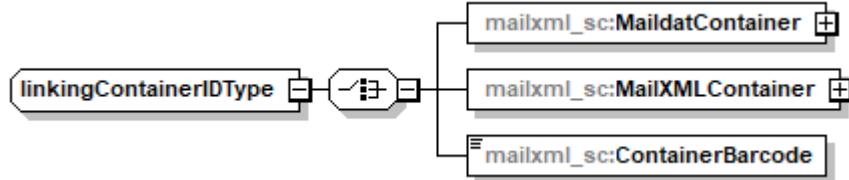
complexType CSQBlockType

diagram	<p>The diagram illustrates the structure of the CSQBlockType complex type. It starts with a base class CSQBlockType at the bottom left, connected by a solid line to a dashed line that leads to a vertical stack of properties. These properties are grouped into several dashed boxes, each representing a namespace prefix (mailxml_sc:). The properties listed are: UserLicenseCode, MaildatJobID, CustomerGroupID, MailingGroupID, ContainerKeysInfo, ContainerDetail, ConsolidatorComm..., PaymentInfo, ApptInfo, eDocFacility, PlannedAppointmen..., InductionFacility, PreInductionInfo, ContainerReleaseInfo, InductionCloseoutln..., InductionIssues, and PostInductionInfo. There are also two additional dashed boxes at the bottom right: OriginalContainer and LinkedContainer.</p>
namespace	http://delivery-tech.org/Specs/mailxml25.4/mailxml_sc

complexType linkageType

diagram	<p>The diagram illustrates the structure of the linkageType complex type. It starts with a base class linkageType at the bottom left, connected by a solid line to a dashed line that leads to a vertical stack of properties. The properties listed are: OriginalContainer and LinkedContainer. Each property is associated with a plus sign (+) icon, indicating they are lists.</p>
namespace	http://delivery-tech.org/Specs/mailxml25.4/mailxml_sc

complexType linkingContainerIDType

diagram	
namespace	http://delivery-tech.org/Specs/mailxml25.4/mailxml_sc

simpleType adjustmentStatusType

namespace	http://delivery-tech.org/Specs/mailxml25.4/mailxml_sc
type	restriction of xs:string

simpleType adjustmentType

namespace	http://delivery-tech.org/Specs/mailxml25.4/mailxml_sc
type	restriction of xs:string

simpleType containerInfoIncludedInResponseType

namespace	http://delivery-tech.org/Specs/mailxml25.4/mailxml_sc
type	restriction of xs:string

simpleType creditDebitIndicator

namespace	http://delivery-tech.org/Specs/mailxml25.4/mailxml_sc
type	restriction of xs:string