

# ***Mail.XML Version 24.1***

## **System Messages Specification**

**May 10, 2021**

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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 24.1?

With this release, the Mail.XML Messaging Protocol moves to Version 24.1. This release supports structure changes required by mailing industry and Postal Service.

Changes supported by Mail.XML 24.1 include:

- CR 2411 – Modification to RateCategoryType, to include a value of B2 to represent High Density Flats Carrier Route Bundles on Pallets
- CR 2412 – Updates to CharacteristicIncentiveType to include enumerations from 0X to 9X to make values consistent with list of Content values and with Mail.dat
- CR 2410 – Updates to ZoneIType to support Zone 10 (represented as value A) for USPS competitive products

## 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<sup>2</sup>.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/mailxml24.1/mailxml> targetNamespace=<http://delivery-tech.org/Specs/mailxml24.1/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/mailxml24.1A/mailxml" then at least one of the XSDs is at same version such as filename = 'Mail.XML\_24.1A.xsd' <- Errata A
- If the wrapper version is labeled as xmlns:mailxml="http://deliverytech.org/Specs/mailxml24.1B/mailxml" then at least one of the XSDs is at same version such as filename = 'Mail.XML\_24.1B.xsd' <- Errata B
- If the wrapper version is labeled as xmlns:mailxml="http://deliverytech.org/Specs/mailxml24.1/mailxml" then at least one of the XSDs is at same version such as filename = 'Mail.XML\_24.1.xsd' <- Major Version

## Mail.XML 24.1 XSD Modules:

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

Note: Actual xsd filenames include the version number (e.g. *mailxml\_base\_24.1.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 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 23.0. Updates in this Specification are NOT backwardly compatible with previous versions. Other documents in the specification set include:

- Mail.XML™ 24.1: Transportation Messaging Specification documents all transportation messages
- Mail.XML™ 24.1: Mailing Messaging Specification documents all mailing messages
- Mail.XML™ 24.1: Informed Visibility Specification documents all informed visibility messages
- Mail.XML™ 24.1: Data Distribution Messaging Specification documents all data distribution messages
- Mail.XML™ 24.1: Identification Messaging Specification documents all identification messages
- Mail.XML™ 24.1: Supply Chain Messaging Specification documents all supply chain messages
- Mail.XML™ 24.1: System Messaging Specification documents all systems and fault messages
- Mail.XML™ 24.1: Simple Types Specification documents all simple types used across Mail.XML messages
- Mail.XML™ 24.1: Common Definitions Specification documents all shared elements and complex types.
- Mail.XML™ 24.1: Schemas contains the .XSDs that make up the Mail.XML Messaging Specification

## Table of Contents

<b>ABSTRACT .....</b>	<b>ERROR! BOOKMARK NOT DEFINED.</b>
<b>ABOUT MAIL.XML™ .....</b>	<b>ERROR! BOOKMARK NOT DEFINED.</b>
<b>WHAT'S NEW IN MAIL.XML VERSION 24.1? .....</b>	<b>ERROR! BOOKMARK NOT DEFINED.</b>
<b>ABOUT MAIL.XML SCHEMA MODULARIZATION .....</b>	<b>ERROR! BOOKMARK NOT DEFINED.</b>
<b>MAIL.XML MODULE VERSIONING RULES .....</b>	<b>ERROR! BOOKMARK NOT DEFINED.</b>
<b>MAIL.XML 24.1 XSD MODULES:.....</b>	<b>ERROR! BOOKMARK NOT DEFINED.</b>
<b>THE MAIL.XML™ 24 MESSAGING DOCUMENTATION SET .....</b>	<b>ERROR! BOOKMARK NOT DEFINED.</b>
<b>1 INDEX .....</b>	<b>7</b>
<b>2 ELEMENTS .....</b>	<b>8</b>

# 1 Index

schema location: **mailxml\_sc\_24.1.xsd**  
attributeFormDefault: **qualified**  
elementFormDefault: **qualified**  
targetNamespace: **http://delivery-tech.org/Specs/mailxml24.1/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**

## 2 Elements

element **ContainerStatusDelivery**

diagram						
namespace	http://delivery-tech.org/Specs/mailxml24.1/mailxml_sc					
children	<b>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</b>					
attributes	Name mailxml_defs:MessageGroupID mailxml_defs:TotalMessageCount mailxml_defs:MessageSerialNumber mailxml_defs:TransmittedRecordCount mailxml_defs:TotalRecordsAcrossMessages mailxml_defs:LastMessage	Type <b>mailxml_base:s20</b> <b>xs:positiveInteger</b> <b>xs:positiveInteger</b> <b>xs:positiveInteger</b> <b>xs:positiveInteger</b> <b>mailxml_base:yesNo</b>	Use optional optional optional optional optional	Default     No	Fixed      	Annotation      
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> <p>mailxml_sc:SubmittingParty</p> <p>mailxml_sc:SubmittingSoftware</p> <p>mailxml_sc:PushMessageID</p> <p>mailxml_sc:UserLicenseCode</p> <p>mailxml_sc:MaildatJobID</p> <p>mailxml_sc:CustomerGroupID</p> <p>mailxml_sc:MailingGroupID</p> <p>mailxml_sc:AvailableRecordCount</p> <p>mailxml_sc:CSQBlockType</p> <p>mailxml_sc:NotificationDate</p>
namespace	http://delivery-tech.org/Specs/mailxml24.1/mailxml_sc
children	<b>mailxml_sc:SubmittingParty</b> <b>mailxml_sc:SubmittingSoftware</b> <b>mailxml_sc:PushMessageID</b> <b>mailxml_sc:UserLicenseCode</b> <b>mailxml_sc:MaildatJobID</b> <b>mailxml_sc:CustomerGroupID</b> <b>mailxml_sc:MailingGroupID</b> <b>mailxml_sc:AvailableRecordCount</b> <b>mailxml_sc:CSQBlockType</b> <b>mailxml_sc:NotificationDate</b>
annotation	documentation Notification from USPS that a container status information is ready for pickup.

element **ContainerStatusQueryRequest**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml24.1/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:MaidatJobID</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/mailxml24.1/mailxml_sc					
children	mailxml_sc:TrackingID mailxml_sc:SubmitterTrackingID mailxml_sc:QueryResults mailxml_defs:QueryError					
attributes	Name	Type	Use	Default	Fixed	Annotation
	mailxml_defs:MessageGroupID	mailxml_base:s20	optional			
	mailxml_defs:TotalMessageCount	xs:positiveInteger	optional			
	mailxml_defs:MessageSerialNumber	xs:positiveInteger	optional			
	mailxml_defs:TransmittedRecordCount	xs:positiveInteger	optional			
	mailxml_defs:TotalRecordsAcrossMessages	xs:positiveInteger	optional			
	mailxml_defs:LastMessage	mailxml_base:yesNo	optional	No		
annotation	documentation Query response for container status.					

element **OriginalContainerLinkageCancelRequest**

diagram						
namespace	http://delivery-tech.org/Specs/mailxml24.1/mailxml_sc					
children	<b>mailxml_sc:SubmittingParty mailxml_sc:SubmittingSoftware mailxml_sc:SubmitterTrackingID mailxml_sc:CancelLinkage</b>					
attributes	Name	Type	Use	Default	Fixed	Annotation
	mailxml_defs:CustomerGroupID	<b>mailxml_base:s25</b>				
	mailxml_defs:MailingGroupID	<b>xs:nonNegativeInteger</b>	required			
	mailxml_defs:MaildatJobID	<b>mailxml_base:jobIDType</b>				
	mailxml_defs:UserLicenseCode	<b>mailxml_base:userLicenseCodeType</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/mailxml24.1/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/mailxml24.1/mailxml_sc					
children	<b>mailxml_sc:SubmittingParty</b> <b>mailxml_sc:SubmittingSoftware</b> <b>mailxml_sc:SubmitterTrackingID</b> <b>mailxml_sc:CreateLinkage</b>					
attributes	Name	Type	Use	Default	Fixed	Annotation
	mailxml_defs:CustomerGroupID	<b>mailxml_base:s25</b>				
	mailxml_defs:MailingGroupID	<b>xs:nonNegativeInteger</b>	required			
	mailxml_defs:MaildatJobID	<b>mailxml_base:jobIDType</b>				
	mailxml_defs:UserLicenseCode	<b>mailxml_base:userLicenseCodeType</b>				
annotation	documentation Request to link an original container with a sibling container.					

element **OriginalContainerLinkageCreateResponse**

diagram	<p>The diagram shows the structure of the <b>OriginalContainerLinkageCreateResponse</b> element. It is a container element (rectangle with a small square on the left) containing a sequence of three elements: <b>mailxml_sc:TrackingID</b>, <b>mailxml_sc:SubmitterTrackingID</b>, and <b>mailxml_sc:LinkedContainerCreateAccept</b>. The first two elements are dashed boxes, while the third is a solid box. The <b>mailxml_sc:LinkedContainerCreateAccept</b> element is further expanded to show it contains two <b>mailxml_sc:LinkedContainerCreateReject</b> elements, which are also dashed boxes. The text "Response to the request to link an original container with a sibling container." is written below the main element box.</p>
namespace	http://delivery-tech.org/Specs/mailxml24.1/mailxml_sc
children	<b>mailxml_sc:TrackingID</b> <b>mailxml_sc:SubmitterTrackingID</b> <b>mailxml_sc:LinkedContainerCreateAccept</b> <b>mailxml_sc:LinkedContainerCreateReject</b>
annotation	documentation Response to the request to link an original container with a sibling container.

element **PostageAdjustmentCreateRequest**

diagram	<p>The diagram shows the structure of the <b>PostageAdjustmentCreateRequest</b> element. It is a container element (rectangle with a small square on the left) containing a sequence of five elements: <b>mailxml_sc:SubmittingParty</b>, <b>mailxml_sc:SubmittingSoftware</b>, <b>mailxml_sc:SubmitterTrackingID</b>, <b>mailxml_sc:PostageAdjustment</b>, and <b>mailxml_sc:UserLicenseCode</b>. The first three elements are dashed boxes, while the last two are solid boxes. The <b>mailxml_sc:PostageAdjustment</b> element is further expanded to show it contains two <b>mailxml_sc:MaildatJobID</b> elements, which are dashed boxes. The <b>mailxml_sc:UserLicenseCode</b> element is further expanded to show it contains two <b>mailxml_sc:CustomerGroupID</b> elements, which are dashed boxes. The <b>mailxml_sc:MaildatJobID</b> element is further expanded to show it contains two <b>mailxml_sc:MailingGroupID</b> elements, which are dashed boxes. The text "Request to create a postage adjustment." is written below the main element box. The cardinality "1..∞" is shown at the bottom right of the diagram.</p>
namespace	http://delivery-tech.org/Specs/mailxml24.1/mailxml_sc
children	<b>mailxml_sc:SubmittingParty</b> <b>mailxml_sc:SubmittingSoftware</b> <b>mailxml_sc:SubmitterTrackingID</b> <b>mailxml_sc:UserLicenseCode</b> <b>mailxml_sc:MaildatJobID</b> <b>mailxml_sc:CustomerGroupID</b> <b>mailxml_sc:MailingGroupID</b> <b>mailxml_sc:PostageAdjustment</b>
annotation	documentation Request to create a postage adjustment.

element **PostageAdjustmentCreateResponse**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml24.1/mailxml_sc
children	<b>mailxml_sc:TrackingID mailxml_sc:SubmitterTrackingID</b> <b>mailxml_sc:PostageAdjustmentCreateAccept mailxml_sc:PostageAdjustmentCreateReject</b>
annotation	documentation Response to a request to create a postage adjustment.

element **SiblingContainerCancelRequest**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml24.1/mailxml_sc
children	<b>mailxml_sc:SubmittingParty mailxml_sc:SubmittingSoftware mailxml_sc:SubmitterTrackingID</b> <b>mailxml_sc:OriginalContainer mailxml_sc:SiblingToDelete</b>
annotation	documentation Request to cancel a sibling container.

element **SiblingContainerCancelResponse**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml24.1/mailxml_sc
children	<b>mailxml_sc:TrackingID mailxml_sc:SubmitterTrackingID</b>

	<b>mailxml_sc:SiblingContainerCancelAccept mailxml_sc:SiblingContainerCancelReject</b>
annotation	documentation Response to a request to cancel a sibling container.

element **SiblingContainerCreateRequest**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml24.1/mailxml_sc
children	<b>mailxml_sc:SubmittingParty mailxml_sc:SubmittingSoftware mailxml_sc:SubmitterTrackingID mailxml_sc:OriginalContainer mailxml_sc:NewSiblingContainer mailxml_sc:ContainerType</b>
annotation	documentation Request to create a uniquely identified sibling container by adding a sibling container to an existing Mail.dat.

element **SiblingContainerCreateResponse**

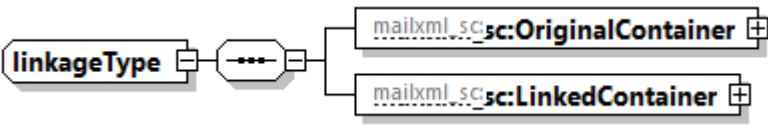
diagram	
namespace	http://delivery-tech.org/Specs/mailxml24.1/mailxml_sc
children	<b>mailxml_sc:TrackingID mailxml_sc:SubmitterTrackingID mailxml_sc:SiblingContainerCreateAccept mailxml_sc:SiblingContainerCreateReject</b>
annotation	documentation Response to a request to create a uniquely identified sibling container by adding a sibling container to an existing Mail.dat



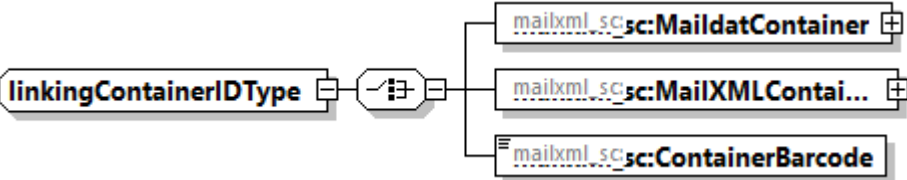
# complexType **CSQBlockType**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml24.1/mailxml_sc
children	<b>mailxml_sc:UserLicenseCode</b> <b>mailxml_sc:MaildatJobID</b> <b>mailxml_sc:CustomerGroupID</b> <b>mailxml_sc:MailingGroupID</b> <b>mailxml_sc:ContainerKeysInfo</b> <b>mailxml_sc:ContainerDetail</b> <b>mailxml_sc:ConsolidatorCommunicationInfo</b> <b>mailxml_sc:PaymentInfo</b> <b>mailxml_sc:ApptInfo</b> <b>mailxml_sc:eDocFacility</b> <b>mailxml_sc:PlannedAppointmentFacility</b> <b>mailxml_sc:InductionFacility</b> <b>mailxml_sc:PreInductionInfo</b> <b>mailxml_sc:ContainerReleaseInfo</b> <b>mailxml_sc:InductionCloseoutInfo</b> <b>mailxml_sc:InductionIssues</b> <b>mailxml_sc:PostInductionInfo</b>
used by	element <b>ContainerStatusNotification/CSQBlockType</b>

### complexType linkageType

diagram	
namespace	http://delivery-tech.org/Specs/mailxml24.1/mailxml_sc
children	<b>mailxml_sc:OriginalContainer mailxml_sc:LinkedContainer</b>
used by	<p>elements</p> <p><b>OriginalContainerLinkageCancelRequest/CancelLinkage</b>  <b>OriginalContainerLinkageCancelResponse/OriginalContainerLinkageCancelAccept/CancelLinkage</b>  <b>OriginalContainerLinkageCancelResponse/OriginalContainerLinkageCancelReject/CancelLinkage</b>  <b>OriginalContainerLinkageCreateRequest/CreateLinkage</b>  <b>OriginalContainerLinkageCreateResponse/LinkedContainerCreateAccept/LinkageCreated</b>  <b>OriginalContainerLinkageCreateResponse/LinkedContainerCreateReject/LinkageRejected</b></p>

### complexType linkingContainerIDType

diagram	
namespace	http://delivery-tech.org/Specs/mailxml24.1/mailxml_sc
children	<b>mailxml_sc:MaildatContainer mailxml_sc:MailXMLContainer mailxml_sc:ContainerBarcode</b>
used by	<p>elements</p> <p><b>linkageType/LinkedContainer linkageType/OriginalContainer</b></p>

### simpleType adjustmentStatusType

namespace	http://delivery-tech.org/Specs/mailxml24.1/mailxml_sc		
type	restriction of <b>xs:string</b>		
used by	element	<b>PostageAdjustmentCreateRequest/PostageAdjustment/AdjustmentStatus</b>	
facets	Kind	Value	Annotation
	enumeration	R	
	enumeration	X	
	enumeration	C	
	enumeration	P	
	enumeration	T	

### simpleType **adjustmentType**

namespace	http://delivery-tech.org/Specs/mailxml24.1/mailxml_sc		
type	restriction of <b>xs:string</b>		
used by	element	<b>PostageAdjustmentCreateRequest/PostageAdjustment/AdjustmentType</b>	
facets	Kind	Value	Annotation
	enumeration	1	
	enumeration	2	
	enumeration	3	
	enumeration	4	

### simpleType **containerInfoIncludedInResponseFlagType**

namespace	http://delivery-tech.org/Specs/mailxml24.1/mailxml_sc		
type	restriction of <b>xs:string</b>		
used by	element	<b>ContainerStatusQueryRequest/ContainerInfoIncludedInResponseFlag</b>	
facets	Kind	Value	Annotation
	enumeration	ContainerDetail	
	enumeration	PalletHandoffInfo	
	enumeration	ConsolidatorCommunicationInfo	
	enumeration	PaymentInfo	
	enumeration	AppointmentInfo	
	enumeration	FacilityInfo	
	enumeration	PreInductionValidation	
	enumeration	ContainerReleaseInfo	
	enumeration	InductionCloseoutInfo	
	enumeration	InductionIssues	
	enumeration	PostInductionValidation	
	enumeration	All	

### simpleType **creditDebitIndicator**

namespace	http://delivery-tech.org/Specs/mailxml24.1/mailxml_sc		
type	restriction of <b>xs:string</b>		
used by	element	<b>PostageAdjustmentCreateRequest/PostageAdjustment/CreditDebitIndicator</b>	
facets	Kind	Value	Annotation
	enumeration	C	
	enumeration	D	