# *Mail.XML Version 26.1*

# System Messages Specification

**Monday, April 3, 2023**

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## Copyright and Legal Notices

# 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.



# 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 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 26.1?

With this release, the Mail.XML Messaging Protocol moves to Version 26.1. This release supports structure changes required by mailing industry and Postal Service.
Changes supported by Mail.XML 26.1 include:

- 2613 - Proposal to add support for Marriage Mail product
- 2612 - Proposal to add support for USPS Ground Advantage product
- 2614 - Proposal to support/Clarify Destination Hub for Parcel Select Destination Entry

## 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/mailxml26.1/mailxml"
targetNamespace="http://delivery-tech.org/Specs/mailxml26.1/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/mailxml26.1A/mailxml" then at least one of the XSDs is at same version such as filename ='Mail.XML_26.1A.xsd' <- Errata A

- If the wrapper version is labeled as xmlns:mailxml="http://deliverytech.org/Specs/mailxml26.1B/mailxml" then at least one of the XSDs is at same version such as filename ='Mail.XML_26.1B.xsd' <- Errata B

- If the wrapper version is labeled as xmlns:mailxml="http://deliverytech.org/Specs/mailxml26.1/mailxml" then at least one of the XSDs is at same version such as filename ='Mail.XML_26.1.xsd' <- Major Version

## Mail.XML 26.1 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™ 26.1 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 26.1. Updates in this Specification are NOT backwardly compatible with previous versions. Other documents in the specification set include:

- Mail.XML™ 26.1: Transportation Messaging Specification documents all transportation messages
- Mail.XML™ 26.1: Mailing Messaging Specification documents all mailing messages
- Mail.XML™ 26.1: Informed Visibility Specification documents all informed visibility messages
- Mail.XML™ 26.1: Data Distribution Messaging Specification documents all data distribution messages
- Mail.XML™ 26.1: Identification Messaging Specification documents all identification messages
- Mail.XML™ 26.1: Supply Chain Messaging Specification documents all supply chain messages
- Mail.XML™ 26.1: System Messaging Specification documents all systems and fault messages
- Mail.XML™ 26.1: Simple Types Specification documents all simple types used across Mail.XML

- messages
- Mail.XML™ 26.1: Common Definitions Specification documents all shared elements and complex
- types.
- Mail.XML™ 26.1: Schemas contains the .XSDs that make up the Mail.XML Messaging Specification

# Table of Contents

# Schema mailxml_defs_26.1.xsd

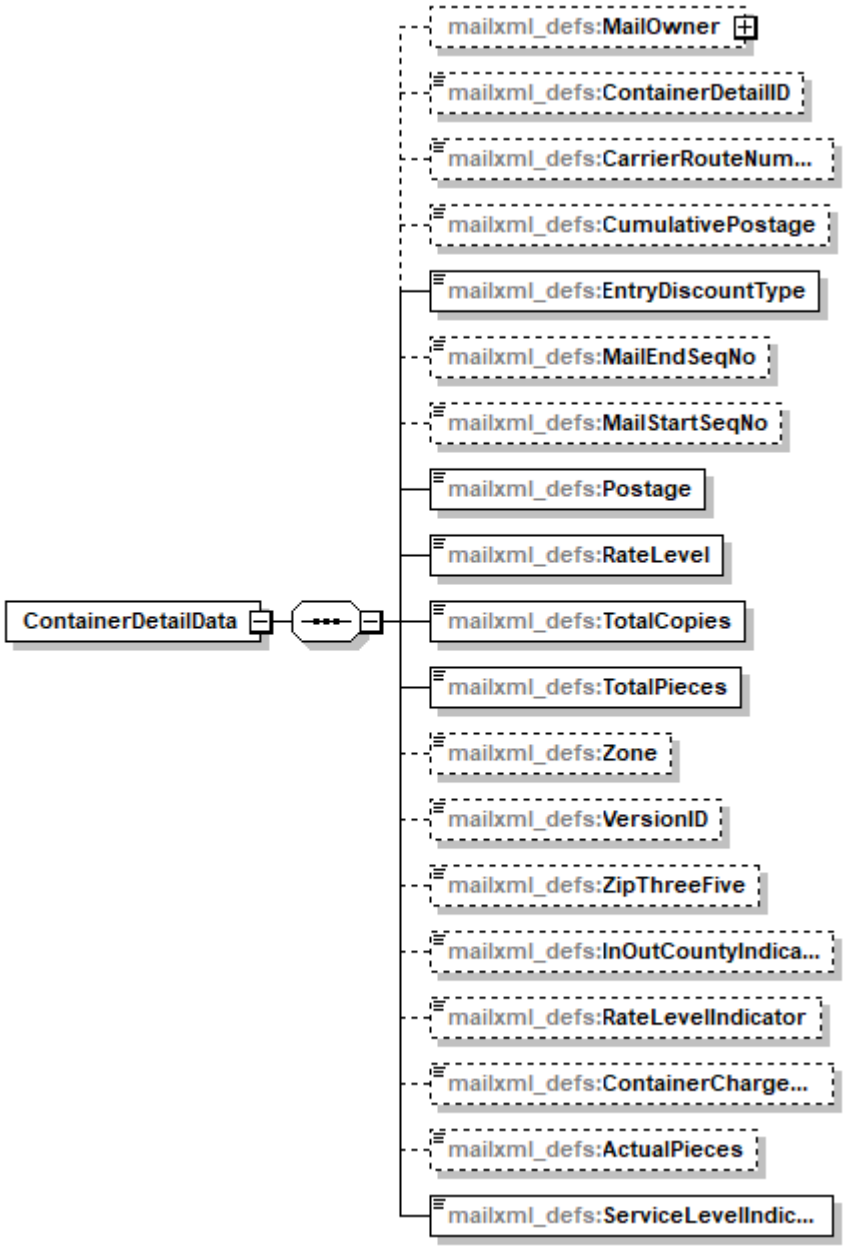
schema location: **..\XSDs\mailxml_defs_26.1.xsd**
attribute form default: **qualified**
element form default: **qualified**
targetNamespace: **http://delivery-tech.org/Specs/mailxml26.1/mailxml_defs**

Elements
**ContainerDetailData**
**ContainerInfoData**
**DataRecipient**
**ExtraServiceData**
**LargeTransactionDivider**
**LargeTransactionDividerResult**
**QueryError**

Complex types
**addressType**
**basicReturnInfoType**
**commonContactType**
**consigneeFacilityType**
**consolidatorCommunicationInfoType**
**contactIDType**
**ContainerDiscrepancyType**
**containerErrorWarningBlockType**
**containerIDType**
**ContainerInductedType**
**containerInfoDataType**
**containerKeysInfoType**
**containerPostInductionInfoType**
**containerPreInductionInfoType**
**containerReleaseInfoType**
**containerStatusInfoType**
**contentIDType**
**CSQContainerDetailDataType**
**CSQcontainerInfoDataType**
**CSQlinkingContainerIDType**
**documentVersionDataforCSQType**
**errorWarningType**
**fullContainerIDType**
**gPSCoordinates**
**IMcbAndIMtbPieceScanInfoType**
**IMcbPieceScanInfoType**
**IMtbPieceScanInfoType**
**inductionCloseoutInfoType**
**inductionIssuesType**
**InductionProblemType**
**intelligentMailBarcodeType**
**intelligentMailPackageBarcodeType**
**maildatContainerIDType**
**MaildatMPUInfoType**
**mailPieceIDType**
**MailXMLContainerIDType**
**mailxmlDetailType**
**measurementType**
**MIDType**

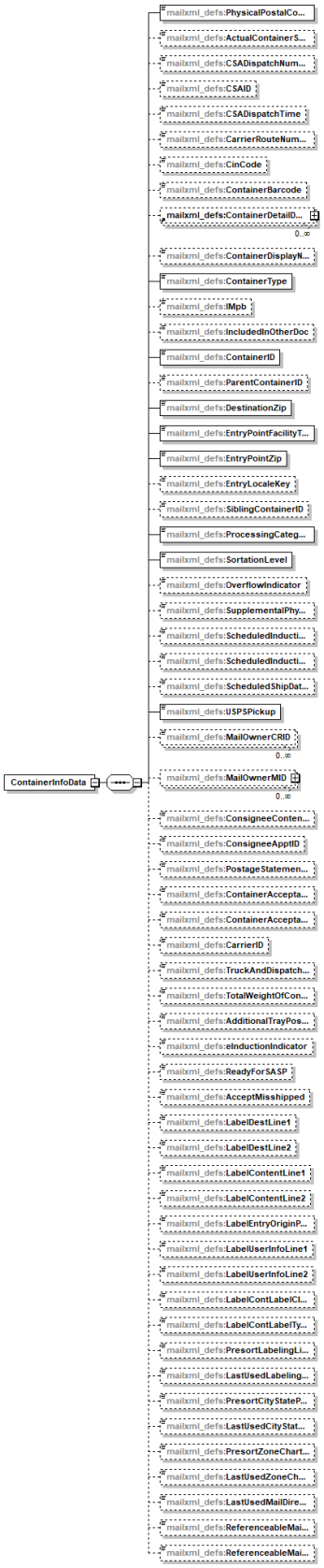
Simple types
**bundleScanTypeType**
**containerDiscrepancyCategoryType**
**containerScanStateType**
**containerStatusType**
**countTypeType**
**einductionDataSourceType**
**fullServiceComplianceIndicatorType**
**MPSQueryType**
**MPSStateType**
**pieceScanEventTypeType**
**problemCategoryType**
**problemTypeType**
**reasonCodeType**
**retrieveDataByType**

element **ContainerDetailData**

| | |
|---|---|
| diagram |  |
| namespace | http://delivery-tech.org/Specs/mailxml26.1/mailxml_defs |

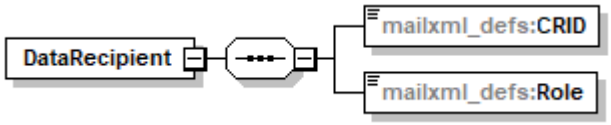
element **ContainerInfoData**

diagram



| | |
|---|---|
| namespace | http://delivery-tech.org/Specs/mailxml26.1/mailxml_defs |

element **DataRecipient**

| | |
|---|---|
| diagram |  |
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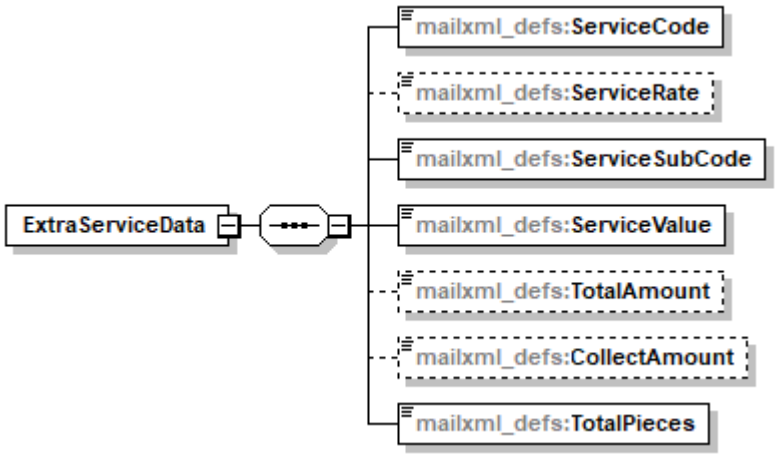
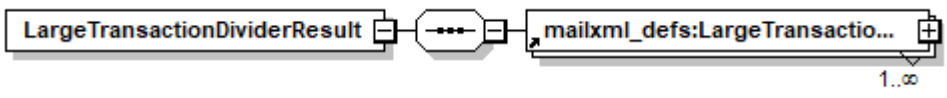
element **ExtraServiceData**

| | |
|---|---|
| diagram |  |
| namespace | http://delivery-tech.org/Specs/mailxml26.1/mailxml_defs |

element **LargeTransactionDivider**

| | |
|---|---|
| diagram |  |
| namespace | http://delivery-tech.org/Specs/mailxml26.1/mailxml_defs |

element **LargeTransactionDividerResult**

| | |
|---|---|
| diagram |  |
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element **QueryError**

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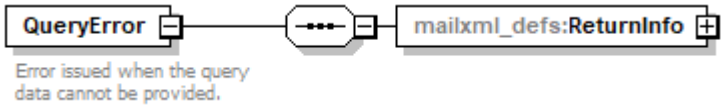
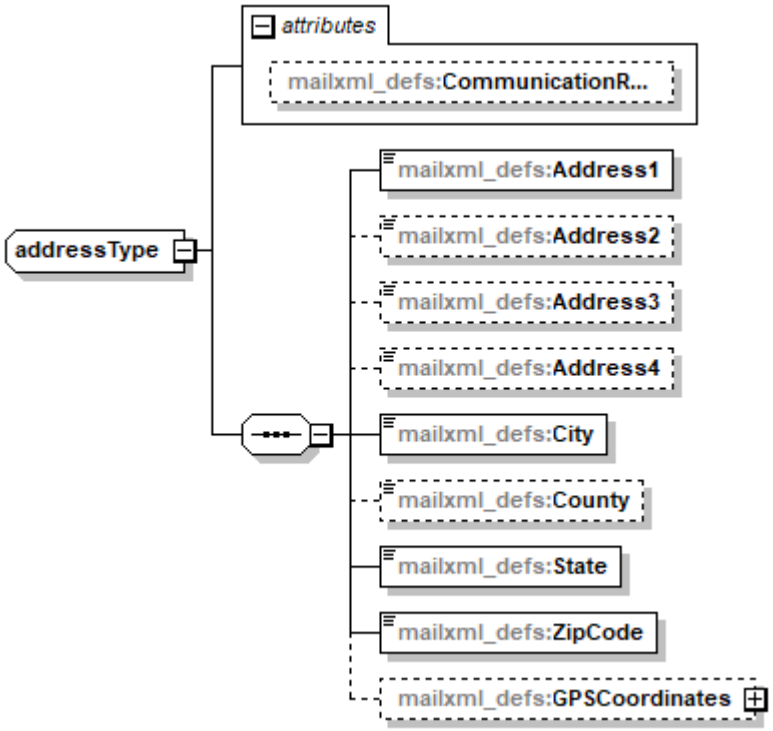
|---|---|
| diagram |  |
| namespace | http://delivery-tech.org/Specs/mailxml26.1/mailxml_defs |
| annotation | documentation<br>Error issued when the query data cannot be provided. |

complexType **addressType**

| | |
|---|---|
| diagram |  |
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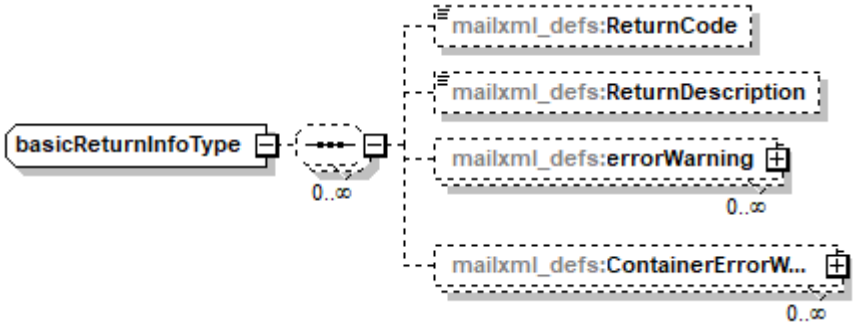
complexType **basicReturnInfoType**

| | |
|---|---|
| diagram |  |
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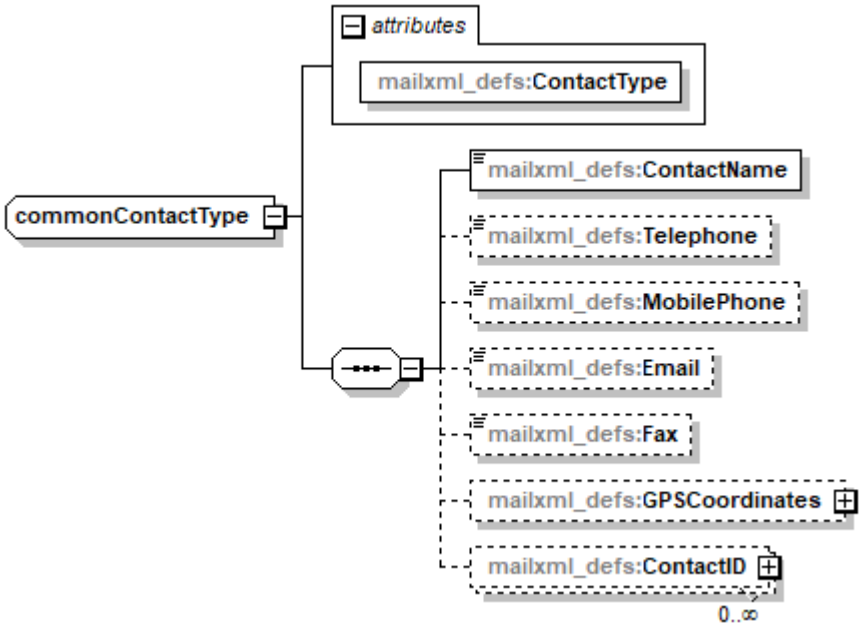
complexType **commonContactType**

| | |
|---|---|
| diagram |  |
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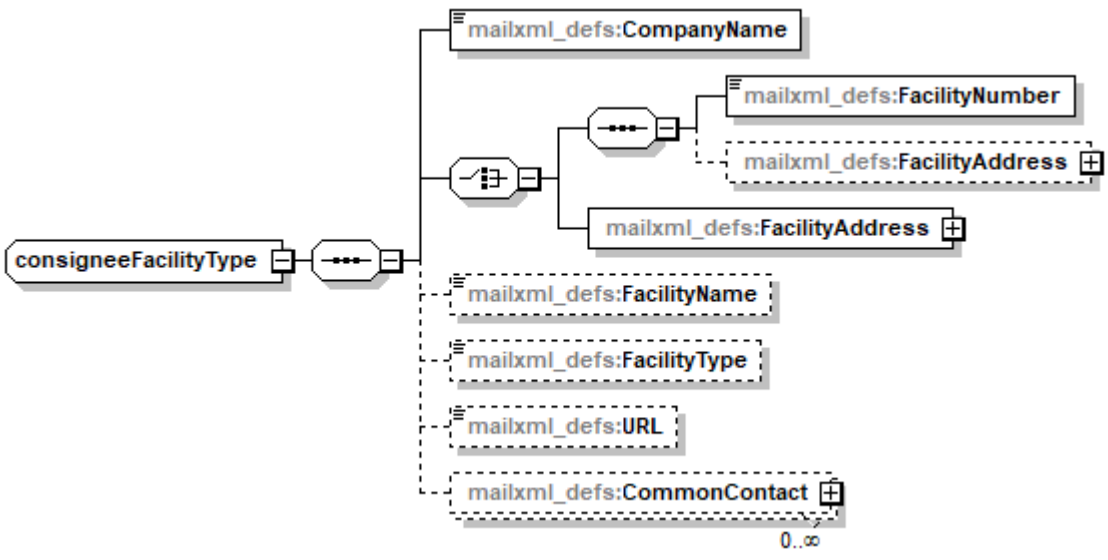
complexType **consigneeFacilityType**

| | |
|---|---|
| diagram |  |
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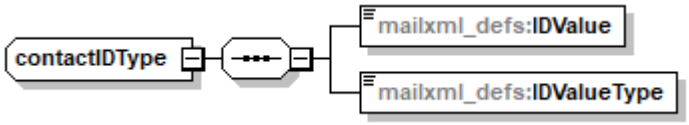
complexType **consolidatorCommunicationInfoType**

diagram

| | |
|---|---|
| namespace | http://delivery-tech.org/Specs/mailxml26.1/mailxml_defs |

complexType **contactIDType**

| | |
|---|---|
| diagram |  |
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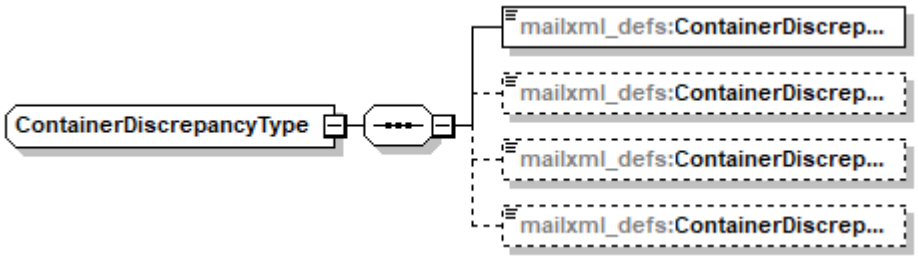
complexType **ContainerDiscrepancyType**

| | |
|---|---|
| diagram |  |
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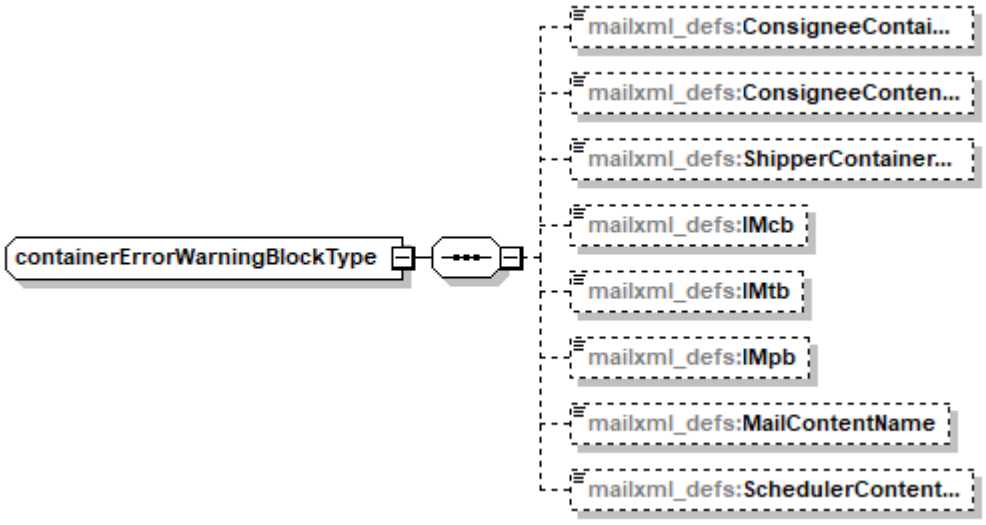
complexType **containerErrorWarningBlockType**

| | |
|---|---|
| diagram |  |
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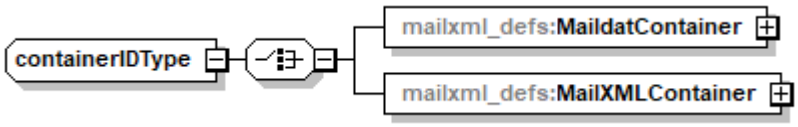
complexType **containerIDType**

| | |
|---|---|
| diagram |  |
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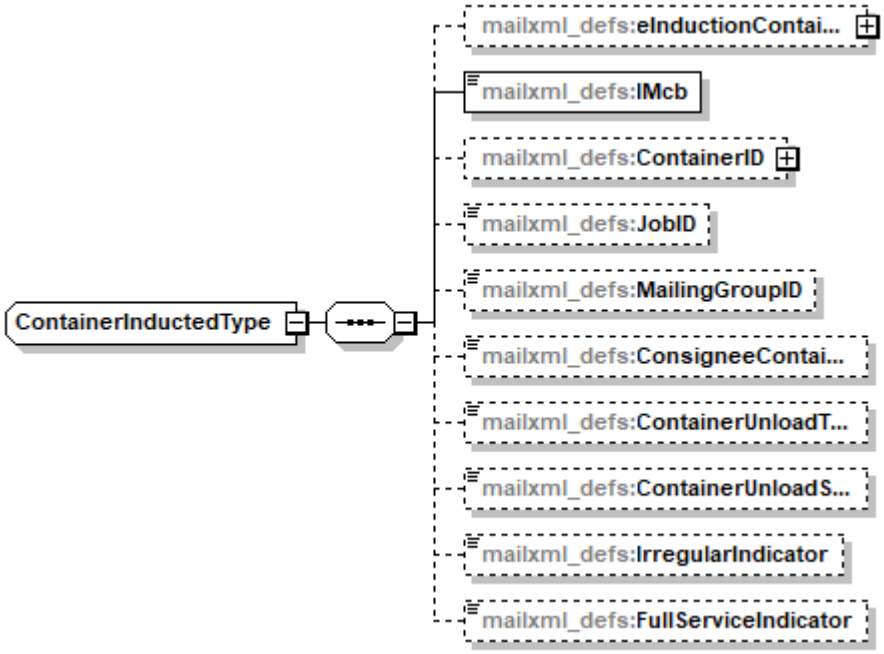
complexType **ContainerInductedType**

| | |
|---|---|
| diagram |  |
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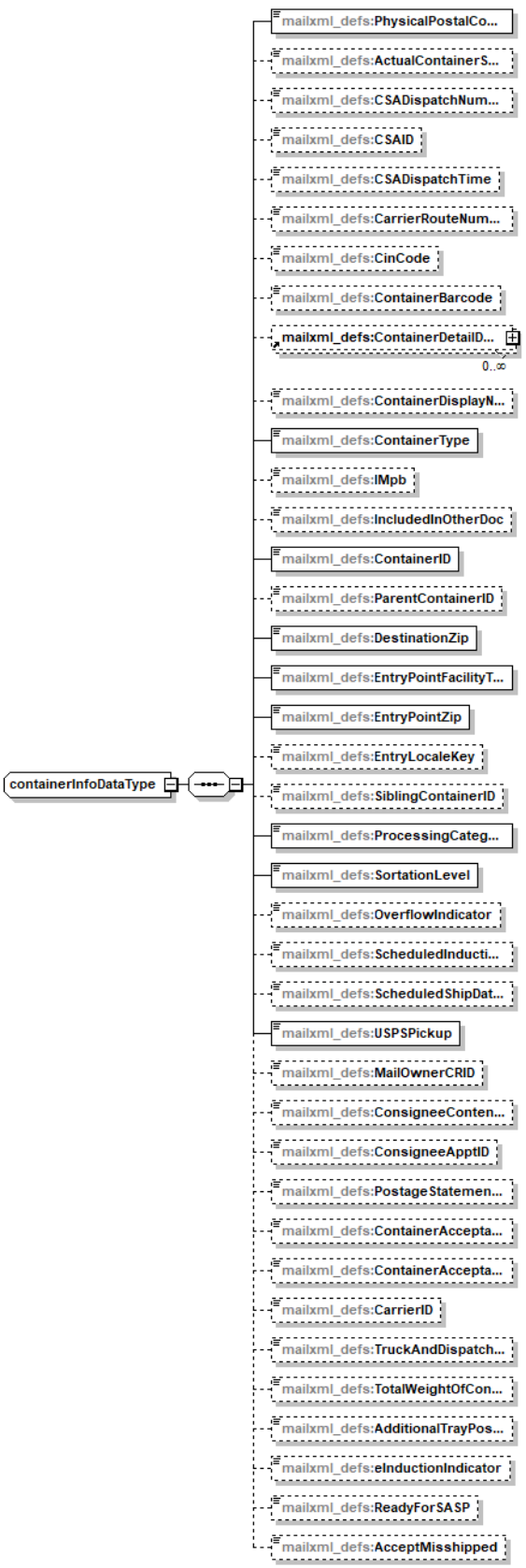
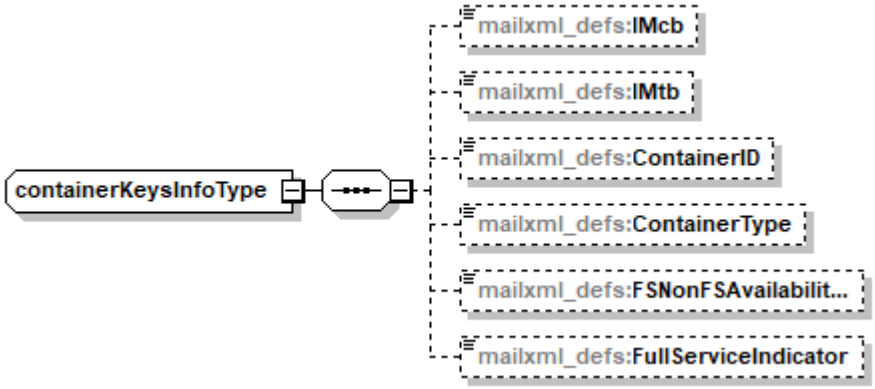
complexType **containerInfoDataType**

diagram


containerInfoDataType
mailxml_defs:PhysicalPostalCo...
mailxml_defs:ActualContainerS...
mailxml_defs:CSADispatchNum...
mailxml_defs:CSAID
mailxml_defs:CSADispatchTime
mailxml_defs:CarrierRouteNum...
mailxml_defs:CinCode
mailxml_defs:ContainerBarcode
mailxml_defs:ContainerDetailID...
0..∞
mailxml_defs:ContainerDisplayN...
mailxml_defs:ContainerType
mailxml_defs:IMpb
mailxml_defs:IncludedInOtherDoc
mailxml_defs:ContainerID
mailxml_defs:ParentContainerID
mailxml_defs:DestinationZip
mailxml_defs:EntryPointFacilityT...
mailxml_defs:EntryPointZip
mailxml_defs:EntryLocaleKey
mailxml_defs:SiblingContainerID
mailxml_defs:ProcessingCateg...
mailxml_defs:SortationLevel
mailxml_defs:OverflowIndicator
mailxml_defs:ScheduledInducti...
mailxml_defs:ScheduledShipDat...
mailxml_defs:USPSPickup
mailxml_defs:MailOwnerCRID
mailxml_defs:ConsigneeConten...
mailxml_defs:ConsigneeApptID
mailxml_defs:PostageStatemen...
mailxml_defs:ContainerAccepta...
mailxml_defs:ContainerAccepta...
mailxml_defs:CarrierID
mailxml_defs:TruckAndDispatch...
mailxml_defs:TotalWeightOfCon...
mailxml_defs:AdditionalTrayPos...
mailxml_defs:eInductionIndicator
mailxml_defs:ReadyForSASP
mailxml_defs:AcceptMisshipped

| | |
|---|---|
| namespace | http://delivery-tech.org/Specs/mailxml26.1/mailxml_defs |

complexType **containerKeysInfoType**

| | |
|---|---|
| diagram |  |
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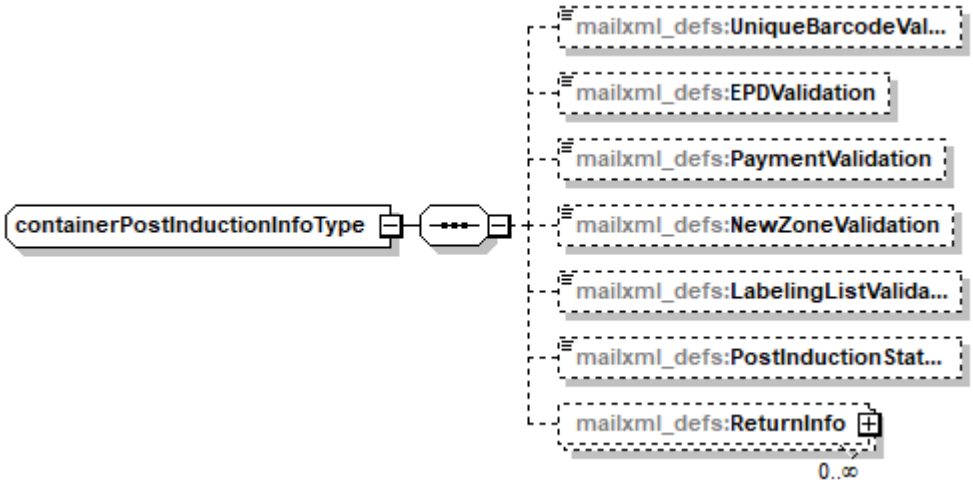
complexType **containerPostInductionInfoType**

| | |
|---|---|
| diagram |  |
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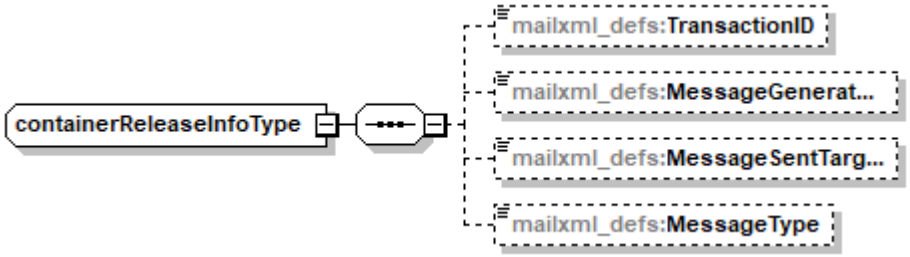
complexType **containerPreInductionInfoType**

| | |
|---|---|
| diagram |   |
| namespace | http://delivery-tech.org/Specs/mailxml26.1/mailxml_defs |

complexType **containerReleaseInfoType**

| | |
|---|---|
| diagram |   |
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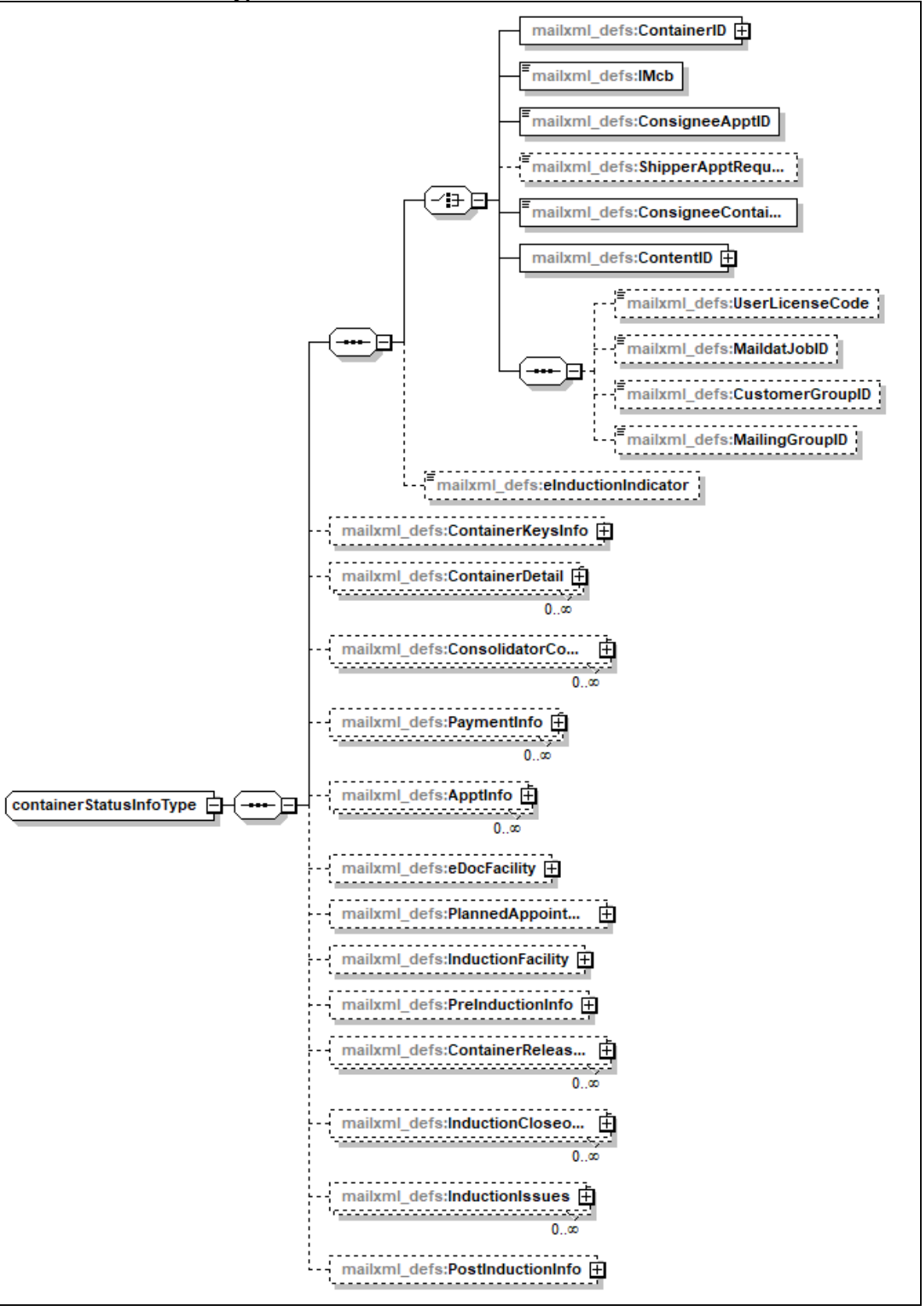
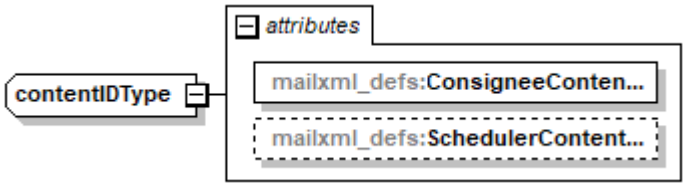
complexType **containerStatusInfoType**

diagram



| | |
|---|---|
| namespace | http://delivery-tech.org/Specs/mailxml26.1/mailxml_defs |

complexType **contentIDType**

| | |
|---|---|
| diagram |  |
| namespace | http://delivery-tech.org/Specs/mailxml26.1/mailxml_defs |

complexType **CSQContainerDetailDataType**

| | |
|---|---|
| diagram |  |
| namespace | http://delivery-tech.org/Specs/mailxml26.1/mailxml_defs |

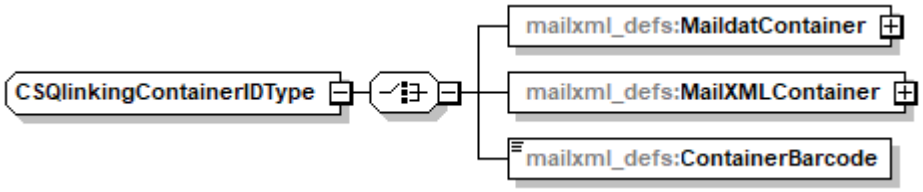
complexType **CSQcontainerInfoDataType**

diagram

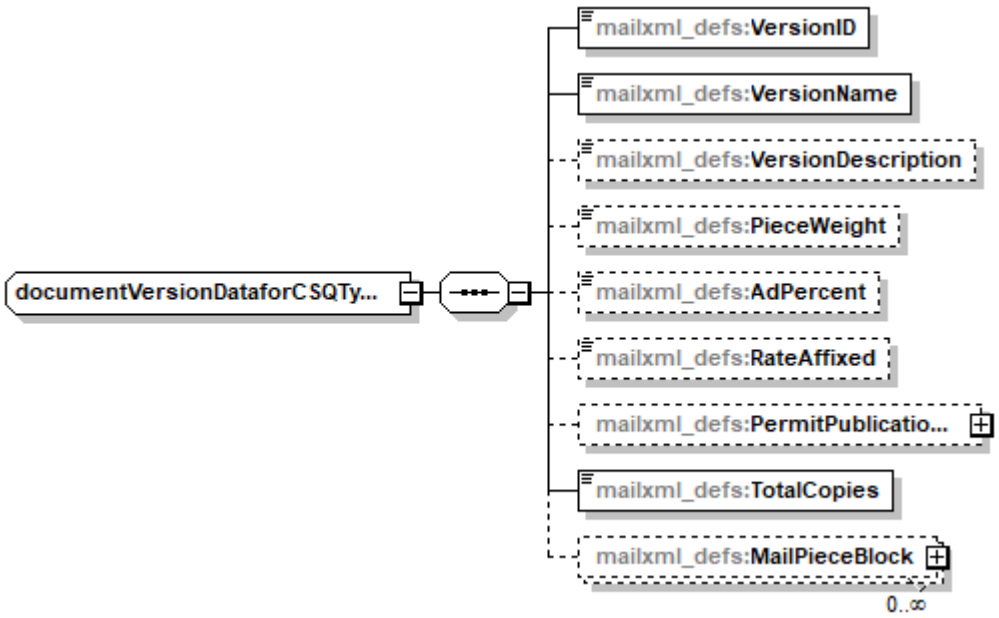

CSQcontainerInfoDataType
mailxml_defs:PhysicalPostalCo...
mailxml_defs:ActualContainerS...
mailxml_defs:CSADispatchNum...
mailxml_defs:CSAID
mailxml_defs:CSADispatchTime
mailxml_defs:CarrierRouteNum...
mailxml_defs:CinCode
mailxml_defs:ContainerBarcode
mailxml_defs:CSQContainerDet...
mailxml_defs:ContainerDisplayN...
mailxml_defs:ContainerType
mailxml_defs:IMpb
mailxml_defs:IncludedInOtherDoc
mailxml_defs:ContainerID
mailxml_defs:ParentContainerID
mailxml_defs:DestinationZip
mailxml_defs:EntryPointFacilityT...
mailxml_defs:EntryPointZip
mailxml_defs:EntryLocaleKey
mailxml_defs:SiblingContainerID
mailxml_defs:ProcessingCateg...
mailxml_defs:SortationLevel
mailxml_defs:OverflowIndicator
mailxml_defs:ScheduledInducti...
mailxml_defs:ScheduledInducti...
mailxml_defs:ScheduledShipDat...
mailxml_defs:USPSPickup
mailxml_defs:MailOwnerCRID
mailxml_defs:MailOwnerMID
mailxml_defs:ConsigneeConten...
mailxml_defs:ConsigneeApptID
mailxml_defs:PostageStatemen...
mailxml_defs:ContainerAccepta...
mailxml_defs:ContainerAccepta...
mailxml_defs:CarrierID
mailxml_defs:TruckAndDispatch...
mailxml_defs:TotalWeightOfCon...
mailxml_defs:AdditionalTrayPos...
mailxml_defs:eInductionIndicator
mailxml_defs:LabelDestLine1
mailxml_defs:LabelDestLine2
mailxml_defs:LabelContentLine1
mailxml_defs:LabelContentLine2
mailxml_defs:LabelEntryOriginP...
mailxml_defs:LabelUserInfoLine1
mailxml_defs:LabelUserInfoLine2
mailxml_defs:LabelContLabelCl...
mailxml_defs:LabelContLabelTy...
mailxml_defs:PresortLabelingLi...
mailxml_defs:LastUsedLabeling...
mailxml_defs:PresortCityStateP...
mailxml_defs:LastUsedCityStat...
mailxml_defs:PresortZoneChart...
mailxml_defs:LastUsedZoneCh...
mailxml_defs:LastUsedMailDire...
mailxml_defs:Incentive
mailxml_defs:Fee
mailxml_defs:ReadyForSASP
mailxml_defs:AcceptMisshipped
mailxml_defs:DCILinkedData
0..∞

| | |
|---|---|
| namespace | http://delivery-tech.org/Specs/mailxml26.1/mailxml_defs |

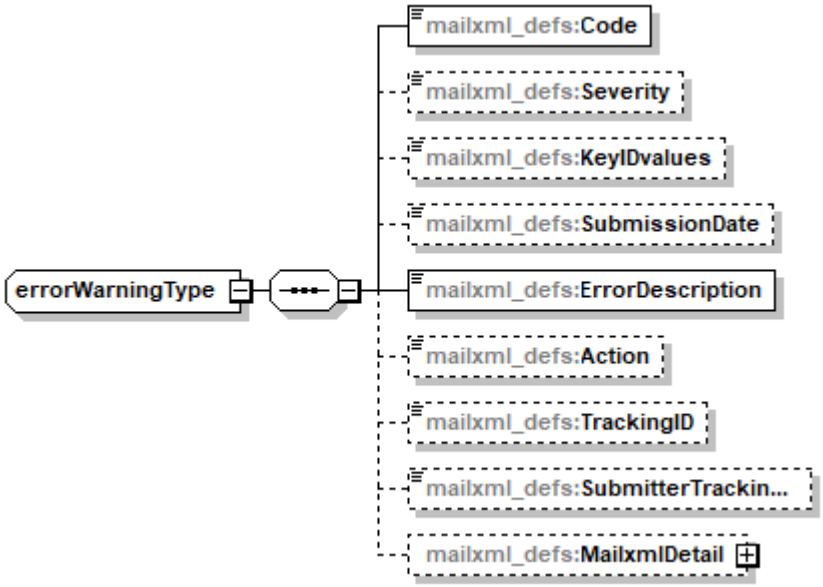
complexType **CSQlinkingContainerIDType**

| | |
|---|---|
| diagram |  |
| namespace | http://delivery-tech.org/Specs/mailxml26.1/mailxml_defs |

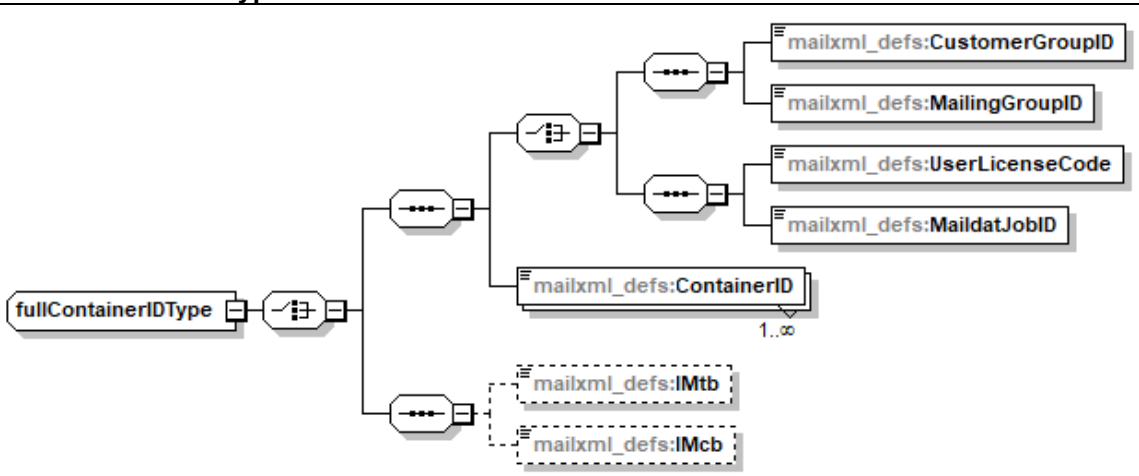
complexType **documentVersionDataforCSQType**

| | |
|---|---|
| diagram |  |
| namespace | http://delivery-tech.org/Specs/mailxml26.1/mailxml_defs |

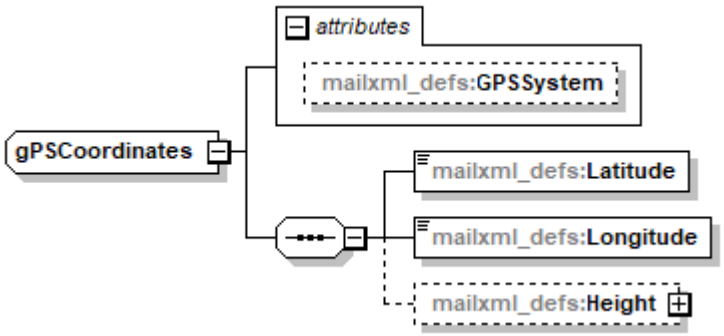
complexType **errorWarningType**

| | |
|---|---|
| diagram |  |
| namespace | http://delivery-tech.org/Specs/mailxml26.1/mailxml_defs |

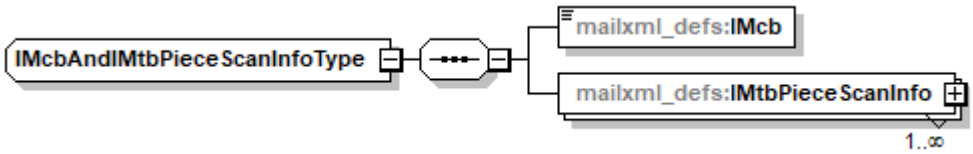
complexType **fullContainerIDType**

| | |
|---|---|
| diagram |  |
| namespace | http://delivery-tech.org/Specs/mailxml26.1/mailxml_defs |

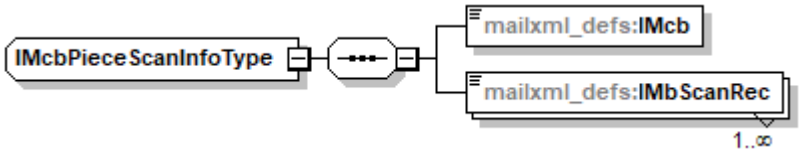
complexType **gPSCoordinates**

| | |
|---|---|
| diagram |  |
| namespace | http://delivery-tech.org/Specs/mailxml26.1/mailxml_defs |

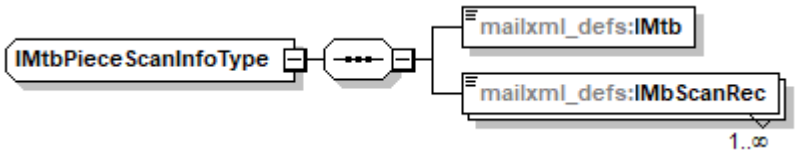
complexType **IMcbAndIMtbPieceScanInfoType**

| | |
|---|---|
| diagram |  |
| namespace | http://delivery-tech.org/Specs/mailxml26.1/mailxml_defs |

complexType **IMcbPieceScanInfoType**

| | |
|---|---|
| diagram |  |
| namespace | http://delivery-tech.org/Specs/mailxml26.1/mailxml_defs |

complexType **IMtbPieceScanInfoType**

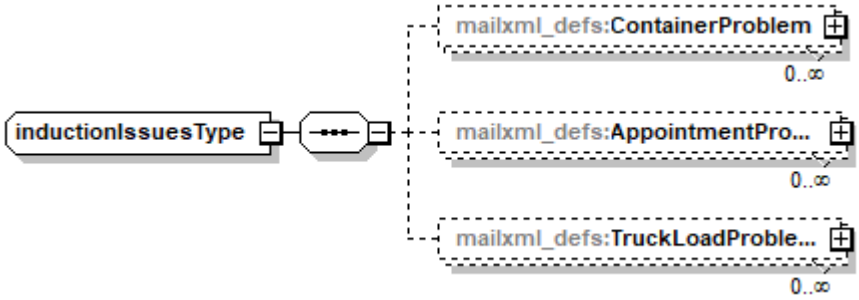
| | |
|---|---|
| diagram |  |
| namespace | http://delivery-tech.org/Specs/mailxml26.1/mailxml_defs |

complexType **inductionCloseoutInfoType**

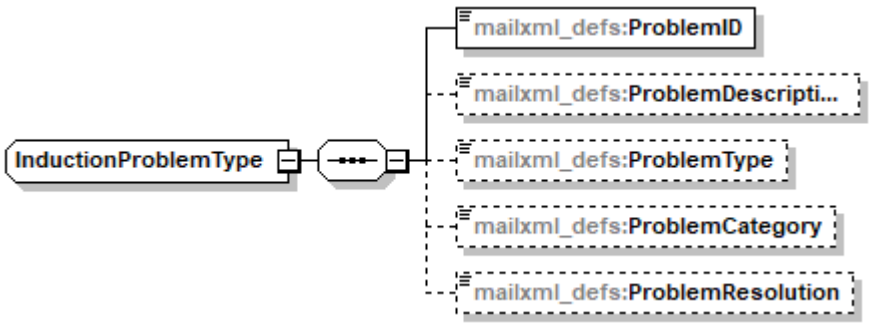
diagram

| | |
|---|---|
| namespace | http://delivery-tech.org/Specs/mailxml26.1/mailxml_defs |

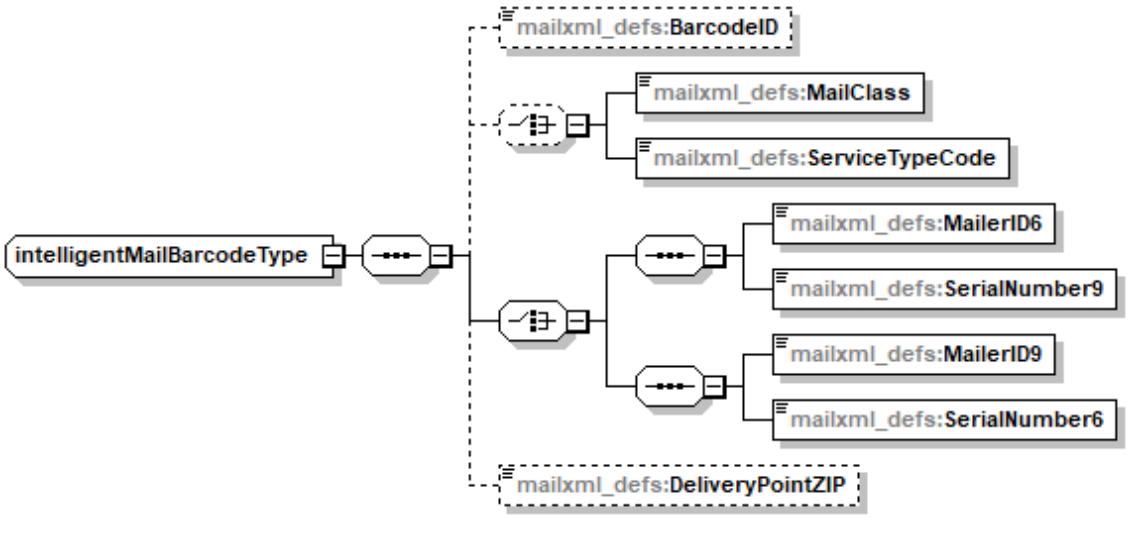
complexType **inductionIssuesType**

| | |
|---|---|
| diagram |  |
| namespace | http://delivery-tech.org/Specs/mailxml26.1/mailxml_defs |

complexType **InductionProblemType**

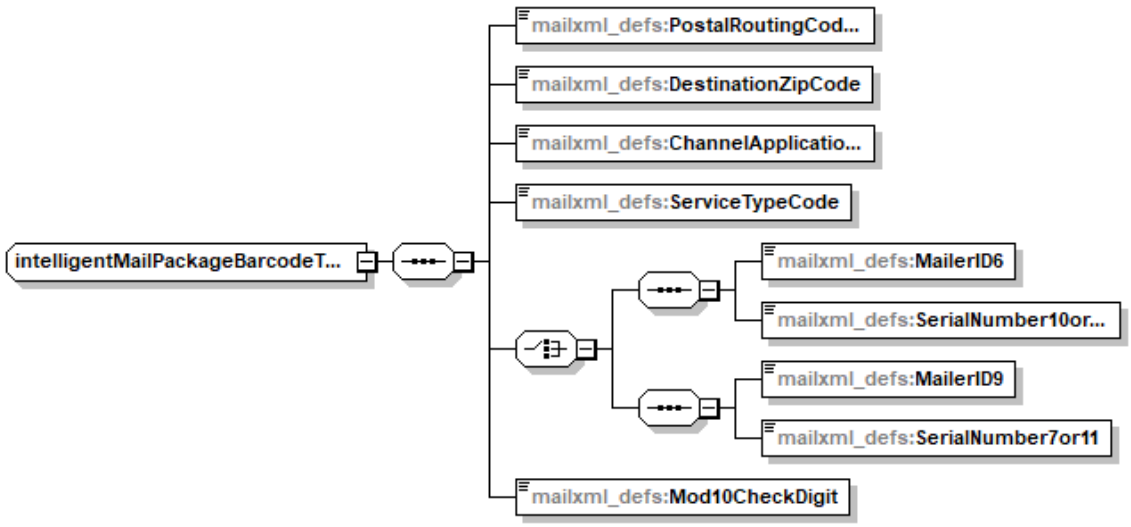
| | |
|---|---|
| diagram |  |
| namespace | http://delivery-tech.org/Specs/mailxml26.1/mailxml_defs |

complexType **intelligentMailBarcodeType**

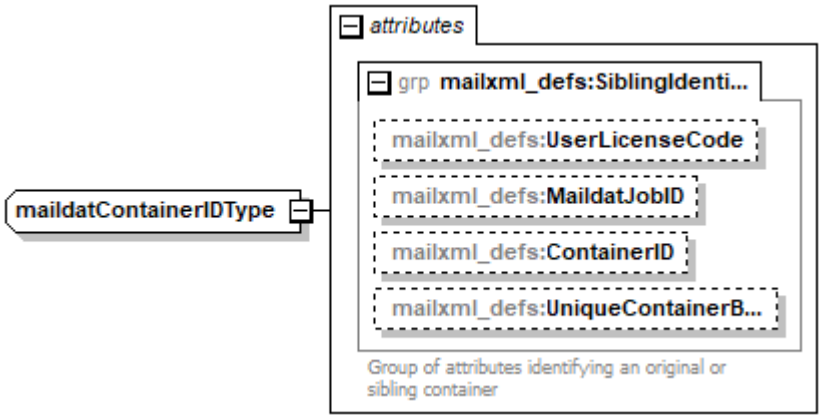
| | |
|---|---|
| diagram |  |

| | |
|---|---|
| namespace | http://delivery-tech.org/Specs/mailxml26.1/mailxml_defs |

complexType **intelligentMailPackageBarcodeType**

| | |
|---|---|
| diagram |  |
| namespace | http://delivery-tech.org/Specs/mailxml26.1/mailxml_defs |

complexType **maildatContainerIDType**

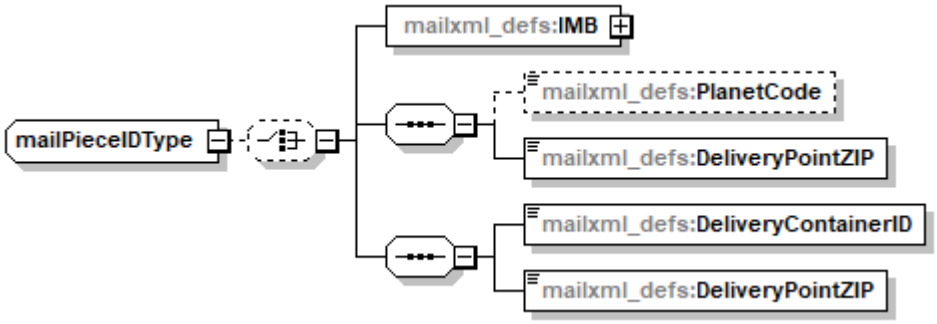
| | |
|---|---|
| diagram |  |
| namespace | http://delivery-tech.org/Specs/mailxml26.1/mailxml_defs |

complexType **MaildatMPUInfoType**

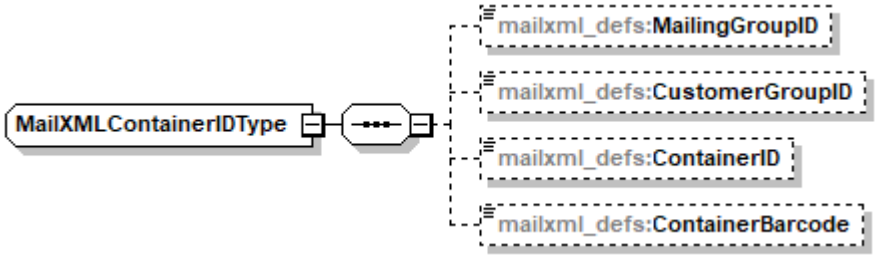
diagram


| namespace | http://delivery-tech.org/Specs/mailxml26.1/mailxml_defs |
|---|---|

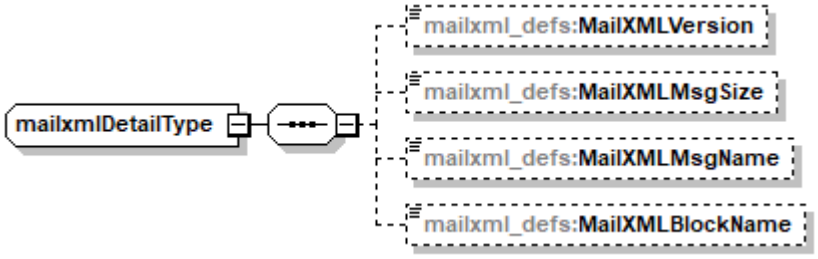
complexType **mailPieceIDType**

| | |
|---|---|
| diagram |  |
| namespace | http://delivery-tech.org/Specs/mailxml26.1/mailxml_defs |

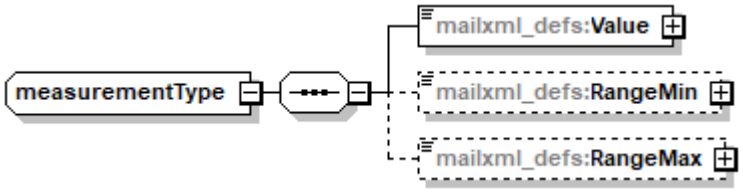
complexType **MailXMLContainerIDType**

| | |
|---|---|
| diagram |  |
| namespace | http://delivery-tech.org/Specs/mailxml26.1/mailxml_defs |

complexType **mailxmlDetailType**

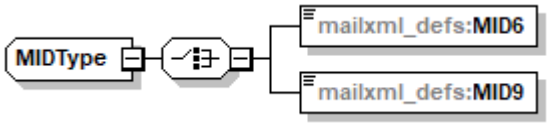
| | |
|---|---|
| diagram |  |
| namespace | http://delivery-tech.org/Specs/mailxml26.1/mailxml_defs |

complexType **measurementType**

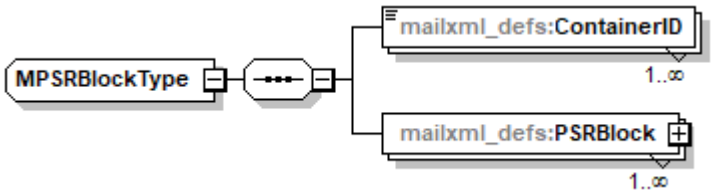
| | |
|---|---|
| diagram |  |

| | |
|---|---|
| namespace | http://delivery-tech.org/Specs/mailxml26.1/mailxml_defs |

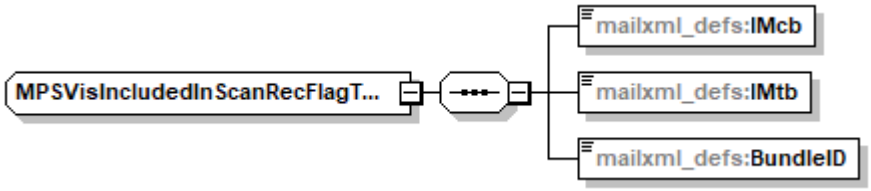
complexType **MIDType**

| | |
|---|---|
| diagram |  |
| namespace | http://delivery-tech.org/Specs/mailxml26.1/mailxml_defs |

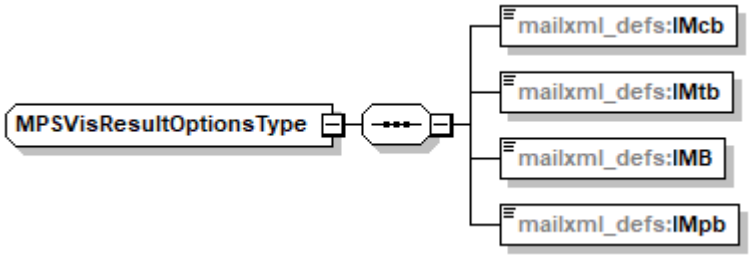
complexType **MPSRBlockType**

| | |
|---|---|
| diagram |  |
| namespace | http://delivery-tech.org/Specs/mailxml26.1/mailxml_defs |

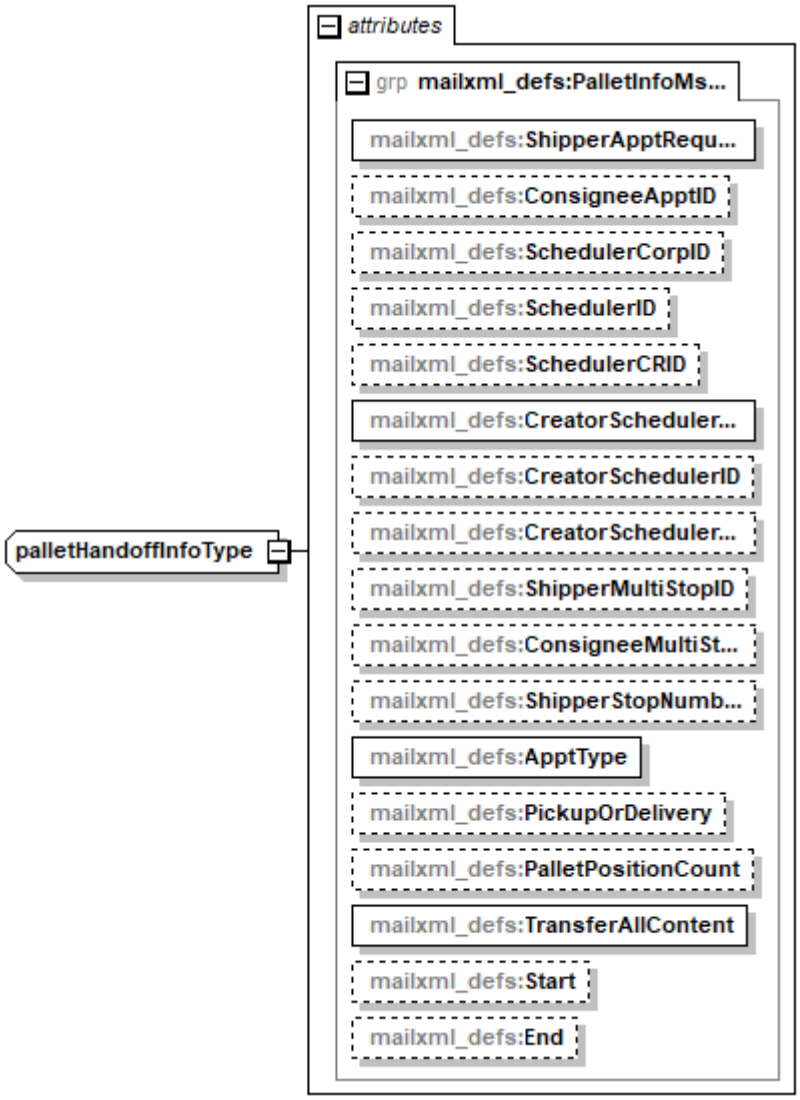
complexType **MPSVisIncludedInScanRecFlagType**

| | |
|---|---|
| diagram |  |
| namespace | http://delivery-tech.org/Specs/mailxml26.1/mailxml_defs |

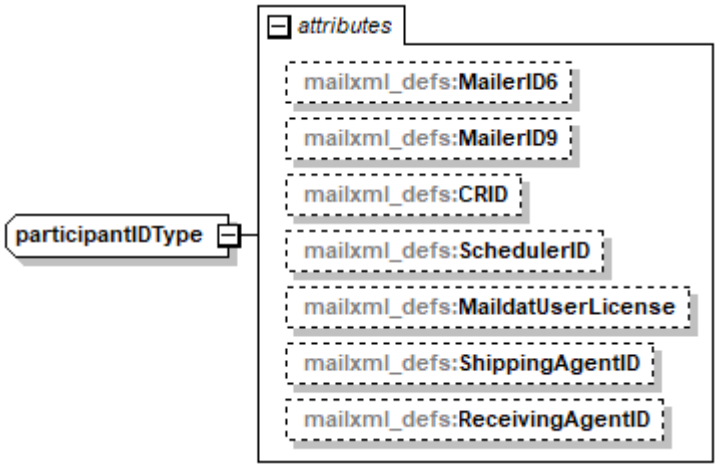
complexType **MPSVisResultOptionsType**

| | |
|---|---|
| diagram |  |
| namespace | http://delivery-tech.org/Specs/mailxml26.1/mailxml_defs |

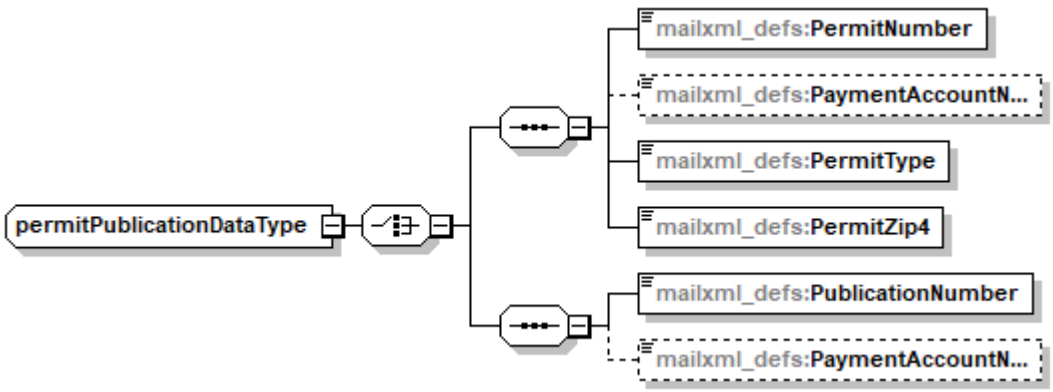
complexType **palletHandoffInfoType**

| | |
|---|---|
| diagram |  |
| namespace | http://delivery-tech.org/Specs/mailxml26.1/mailxml_defs |

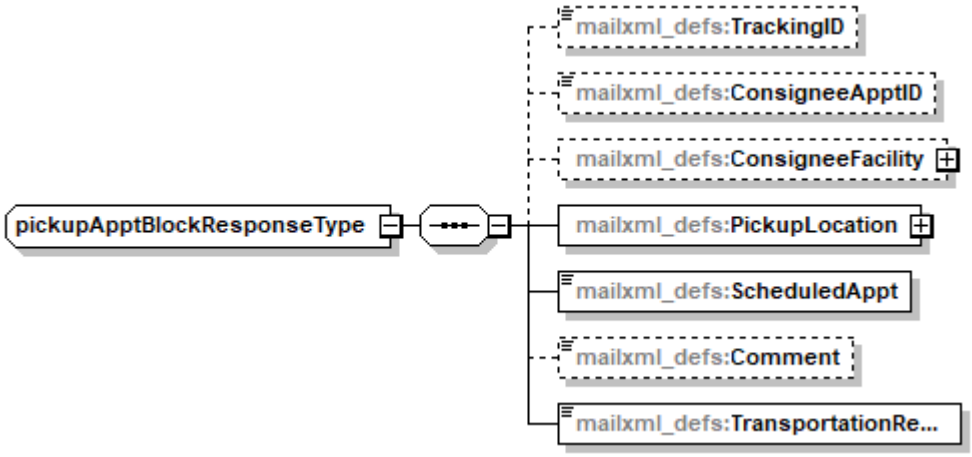
complexType **participantIDType**

| | |
|---|---|
| diagram |  |
| namespace | http://delivery-tech.org/Specs/mailxml26.1/mailxml_defs |

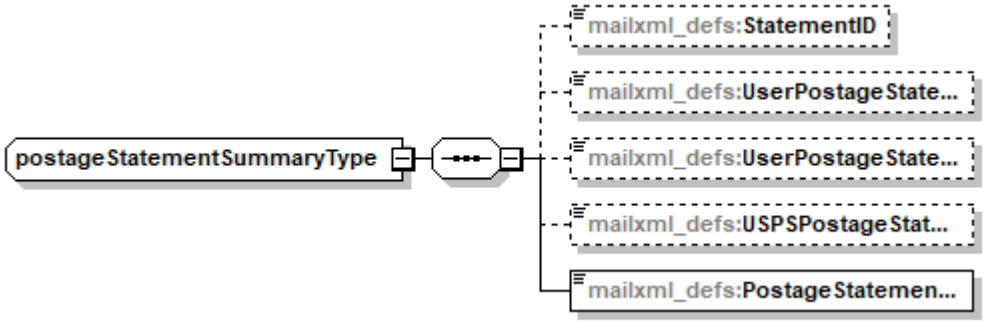
complexType **permitPublicationDataType**

| | |
|---|---|
| diagram |  |
| namespace | http://delivery-tech.org/Specs/mailxml26.1/mailxml_defs |

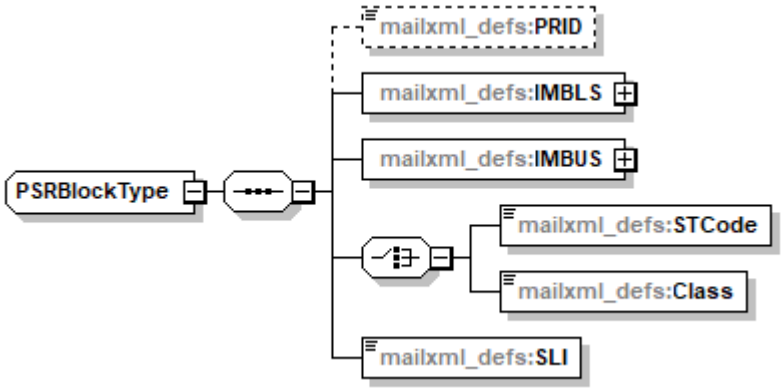
complexType **pickupApptBlockResponseType**

| | |
|---|---|
| diagram |  |
| namespace | http://delivery-tech.org/Specs/mailxml26.1/mailxml_defs |

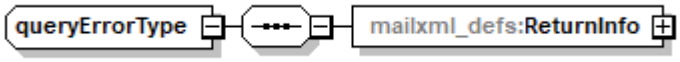
complexType **postageStatementSummaryType**

| | |
|---|---|
| diagram |  |
| namespace | http://delivery-tech.org/Specs/mailxml26.1/mailxml_defs |

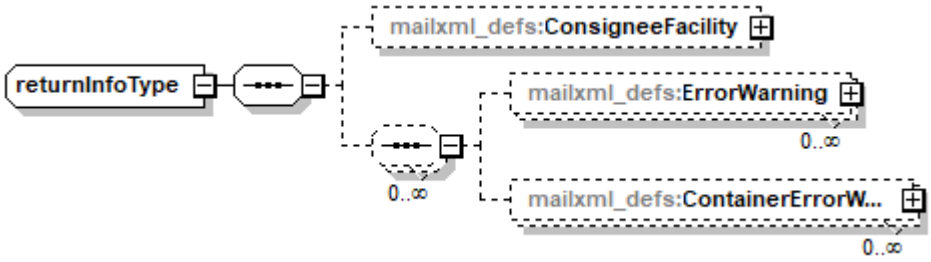
complexType **PSRBlockType**

| | |
|---|---|
| diagram |  |
| namespace | http://delivery-tech.org/Specs/mailxml26.1/mailxml_defs |

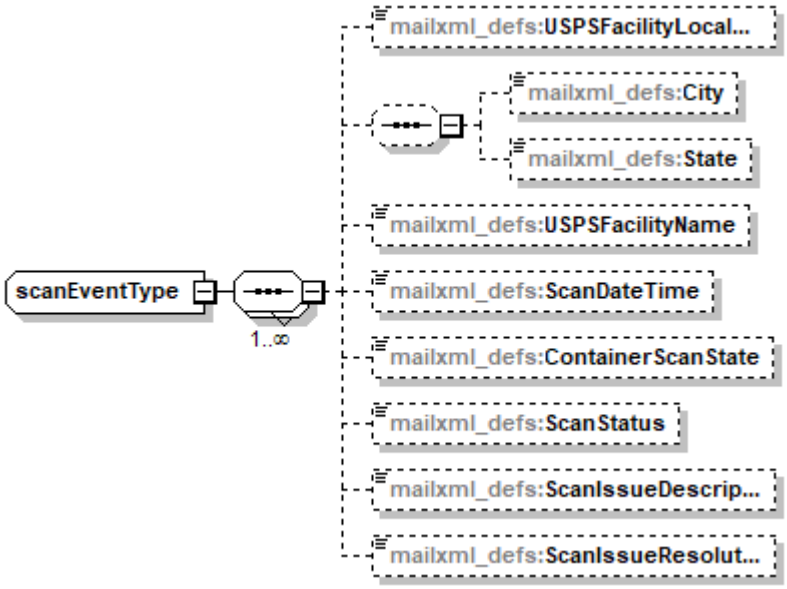
complexType **queryErrorType**

| | |
|---|---|
| diagram |  |
| namespace | http://delivery-tech.org/Specs/mailxml26.1/mailxml_defs |

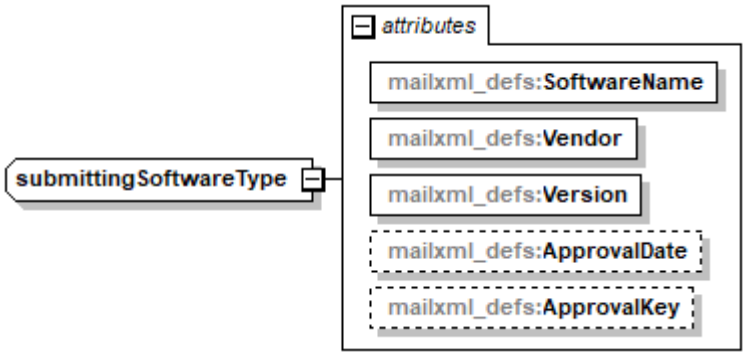
complexType **returnInfoType**

| | |
|---|---|
| diagram |  |
| namespace | http://delivery-tech.org/Specs/mailxml26.1/mailxml_defs |

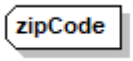
complexType **scanEventType**

| | |
|---|---|
| diagram |  |
| namespace | http://delivery-tech.org/Specs/mailxml26.1/mailxml_defs |

complexType **submittingSoftwareType**

| | |
|---|---|
| diagram |  |
| namespace | http://delivery-tech.org/Specs/mailxml26.1/mailxml_defs |

complexType **zipCode**

| | |
|---|---|
| diagram |  |
| namespace | http://delivery-tech.org/Specs/mailxml26.1/mailxml_defs |
| type | extension of **mailxml_base:ns09** |

simpleType **bundleScanTypeType**

| | |
|---|---|
| namespace | http://delivery-tech.org/Specs/mailxml26.1/mailxml_defs |
| type | restriction of **xs:string** |

simpleType **containerDiscrepancyCategoryType**

| | |
|---|---|
| namespace | http://delivery-tech.org/Specs/mailxml26.1/mailxml_defs |
| type | restriction of **xs:string** |

simpleType **containerScanStateType**

| | |
|---|---|
| namespace | http://delivery-tech.org/Specs/mailxml26.1/mailxml_defs |
| type | restriction of **xs:string** |
| annotation | documentation<br>Scan data for Container Scan States |

simpleType **containerStatusType**

| | |
|---|---|
| namespace | http://delivery-tech.org/Specs/mailxml26.1/mailxml_defs |
| type | restriction of **xs:string** |

simpleType **countTypeType**

| | |
|---|---|
| namespace | http://delivery-tech.org/Specs/mailxml26.1/mailxml_defs |
| type | restriction of **xs:string** |

simpleType **einductionDataSourceType**

| | |
|---|---|
| namespace | http://delivery-tech.org/Specs/mailxml26.1/mailxml_defs |
| type | restriction of **xs:string** |

simpleType **fullServiceComplianceIndicatorType**

| | |
|---|---|
| namespace | http://delivery-tech.org/Specs/mailxml26.1/mailxml_defs |
| type | **mailxml_base:yesNo** |

simpleType **MPSQueryType**

| | |
|---|---|
| namespace | http://delivery-tech.org/Specs/mailxml26.1/mailxml_defs |
| type | restriction of **xs:string** |
| annotation | documentation<br>Mail Piece Scan Query Type |

simpleType **MPSStateType**

| | |
|---|---|
| namespace | http://delivery-tech.org/Specs/mailxml26.1/mailxml_defs |
| type | restriction of **xs:string** |
| annotation | documentation<br>Scan States for Mail Piece Scan Data |

simpleType **pieceScanEventTypeType**

| | |
|---|---|
| namespace | http://delivery-tech.org/Specs/mailxml26.1/mailxml_defs |
| type | restriction of **xs:string** |

simpleType **problemCategoryType**

| | |
|---|---|
| namespace | http://delivery-tech.org/Specs/mailxml26.1/mailxml_defs |
| type | restriction of **xs:string** |

simpleType **problemTypeType**

| | |
|---|---|
| namespace | http://delivery-tech.org/Specs/mailxml26.1/mailxml_defs |
| type | restriction of **xs:string** |

simpleType **reasonCodeType**

| | |
|---|---|
| namespace | http://delivery-tech.org/Specs/mailxml26.1/mailxml_defs |
| type | restriction of **xs:string** |

simpleType **retrieveDataByType**

| | |
|---|---|
| namespace | http://delivery-tech.org/Specs/mailxml26.1/mailxml_defs |
| type | restriction of **xs:string** |