

Mail.XML Version 25.3

System Messages Specification

Monday, April 3, 2023

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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_defs_25.3.xsd	8

Schema mailxml_defs_25.3.xsd

schema location: ..\XSDs\mailxml_defs_25.3.xsd
attribute form default: **qualified**
element form default: **qualified**
targetNamespace: http://delivery-tech.org/Specs/mailxml25.3/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](#)

Simple types

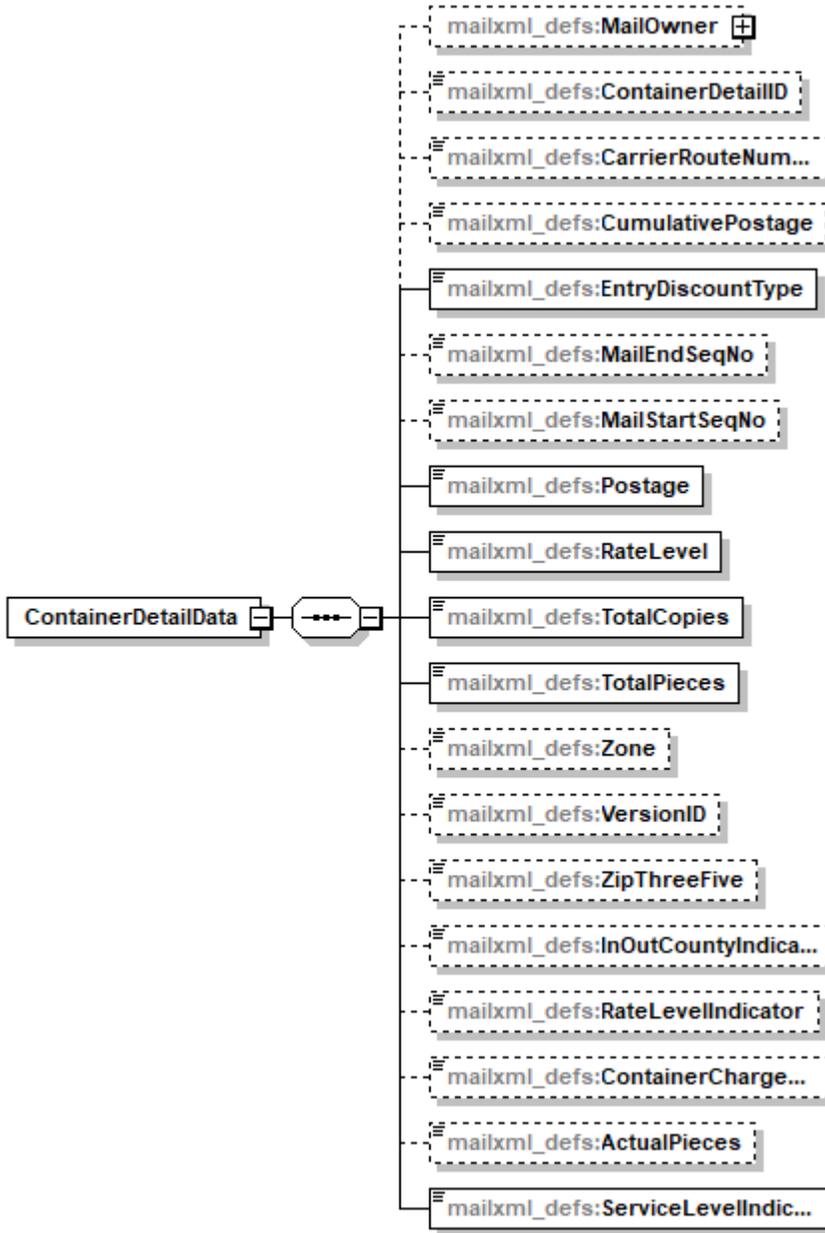
[bundleScanTypeType](#)
[containerDiscrepancyCategoryType](#)
[containerScanStateType](#)
[containerStatusType](#)
[countTypeType](#)
[einductionDataSourceType](#)
[fullServiceComplianceIndicatorType](#)
[MPSQueryType](#)

[MPSStateType](#)
[pieceScanEventTypeType](#)
[problemCategoryType](#)
[problemTypeType](#)
[reasonCodeType](#)
[retrieveDataByType](#)

[MIDType](#)
[MPSRBlockType](#)
[MPSVisIncludedInScanRecFlagType](#)
[MPSVisResultOptionsType](#)
[palletHandoffInfoType](#)
[participantIDType](#)
[permitPublicationDataType](#)
[pickupApptBlockResponseType](#)
[postageStatementSummaryType](#)
[PSRBlockType](#)
[queryErrorType](#)
[returnInfoType](#)
[scanEventType](#)
[submittingSoftwareType](#)
[zipCode](#)

element **ContainerDetailData**

diagram



namespace

http://delivery-tech.org/Specs/mailxml25.3/mailxml_defs

element **ContainerInfoData**

diagram



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

element DataRecipient

diagram	<p>The diagram shows the DataRecipient element structure. It consists of a root box labeled 'DataRecipient' connected to a connector box with four dots. This connector box is then connected to two child boxes: 'mailxml_defs:CRID' and 'mailxml_defs:Role'.</p>
namespace	http://delivery-tech.org/Specs/mailxml25.3/mailxml_defs

element ExtraServiceData

diagram	<p>The diagram shows the ExtraServiceData element structure. It consists of a root box labeled 'ExtraServiceData' connected to a connector box with four dots. This connector box is then connected to seven child boxes: 'mailxml_defs:ServiceCode', 'mailxml_defs:ServiceRate', 'mailxml_defs:ServiceSubCode', 'mailxml_defs:ServiceValue', 'mailxml_defs:TotalAmount', 'mailxml_defs:CollectAmount', and 'mailxml_defs:TotalPieces'. The boxes for 'ServiceRate', 'TotalAmount', and 'CollectAmount' are shown with dashed borders, indicating they are optional or have specific constraints.</p>
namespace	http://delivery-tech.org/Specs/mailxml25.3/mailxml_defs

element LargeTransactionDivider

diagram	<p>The diagram shows the LargeTransactionDivider element structure. It consists of a root box labeled 'LargeTransactionDivider' connected to a connector box with four dots, which is then connected to a single child box labeled 'mailxml_defs:TrackingID'.</p>
namespace	http://delivery-tech.org/Specs/mailxml25.3/mailxml_defs

element LargeTransactionDividerResult

diagram	<p>The diagram shows the LargeTransactionDividerResult element structure. It consists of a root box labeled 'LargeTransactionDividerResult' connected to a connector box with four dots, which is then connected to a child box labeled 'mailxml_defs:LargeTransactio...'. The child box has a '+' sign in its bottom right corner and a '1..∞' cardinality constraint below it.</p>
namespace	http://delivery-tech.org/Specs/mailxml25.3/mailxml_defs

element **QueryError**

diagram	<p>Error issued when the query data cannot be provided.</p>
namespace	http://delivery-tech.org/Specs/mailxml25.3/mailxml_defs
annotation	documentation Error issued when the query data cannot be provided.

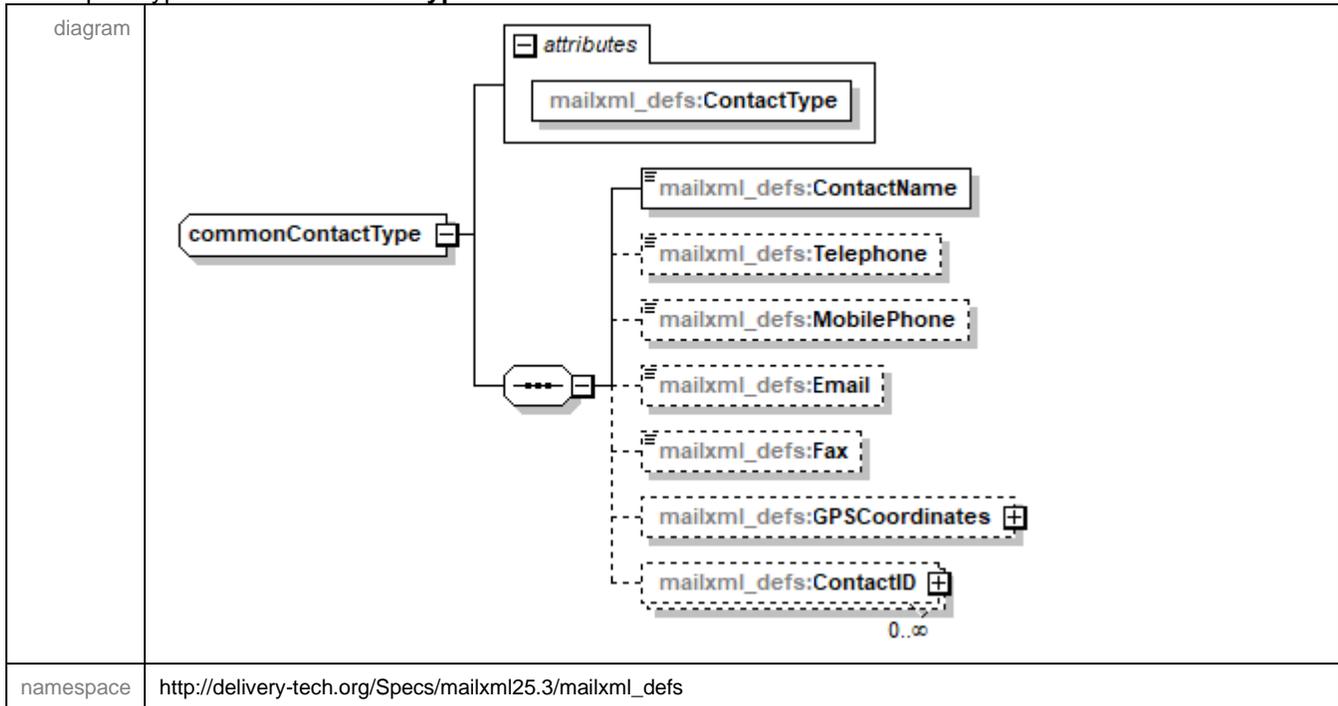
complexType **addressType**

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

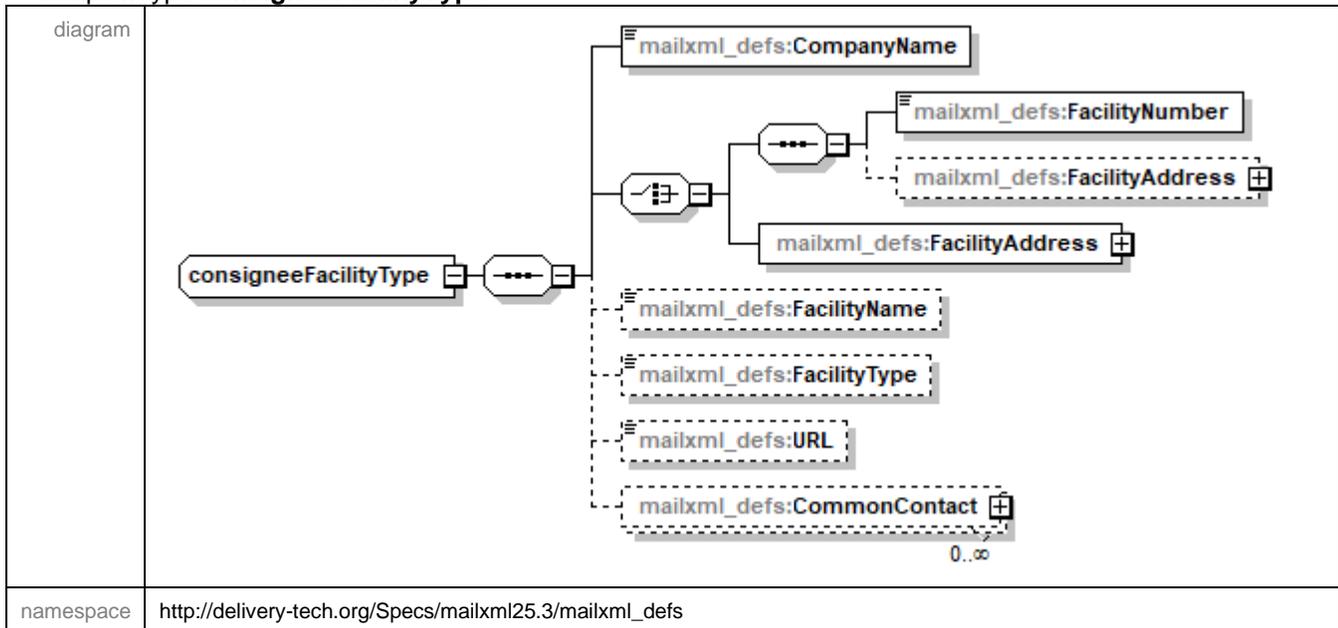
complexType **basicReturnInfoType**

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

complexType **commonContactType**



complexType **consigneeFacilityType**



complexType consolidatorCommunicationInfoType

diagram



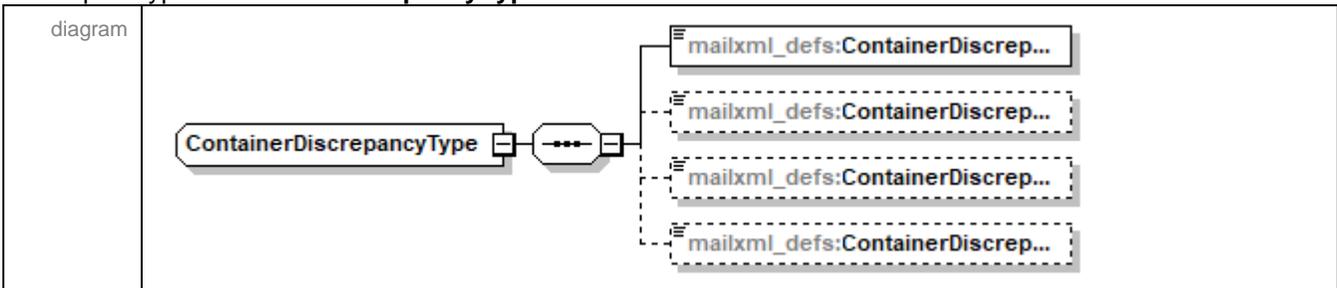
namespace	http://delivery-tech.org/Specs/mailxml25.3/mailxml_defs
-----------	---

complexType contactIDType



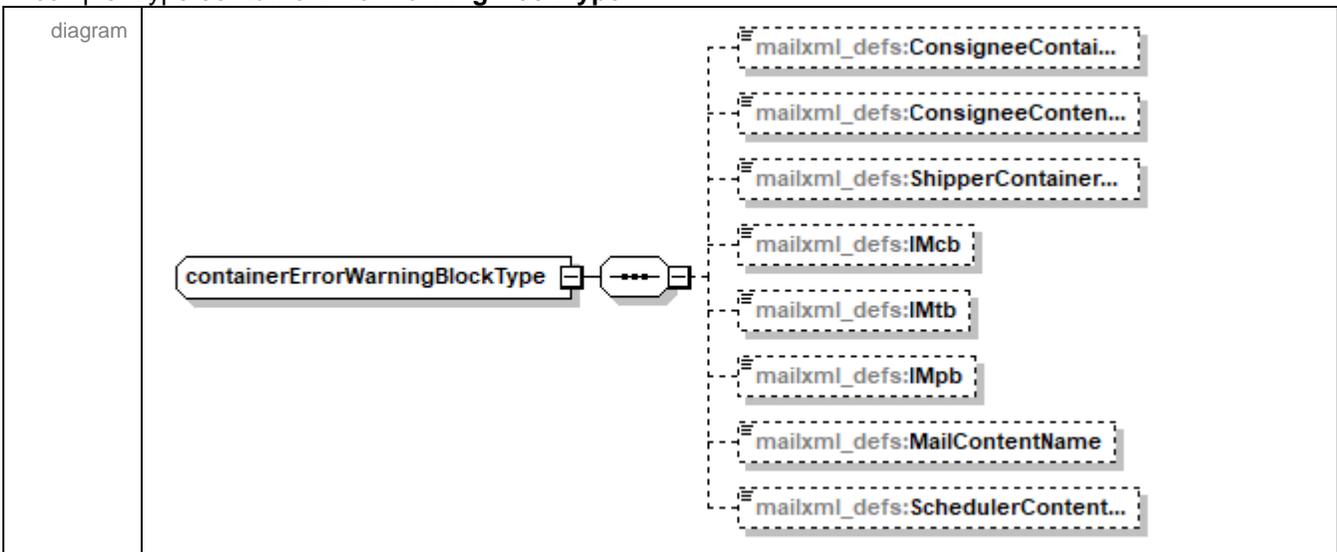
namespace	http://delivery-tech.org/Specs/mailxml25.3/mailxml_defs
-----------	---

complexType ContainerDiscrepancyType



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

complexType containerErrorWarningBlockType



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

complexType **containerIDType**

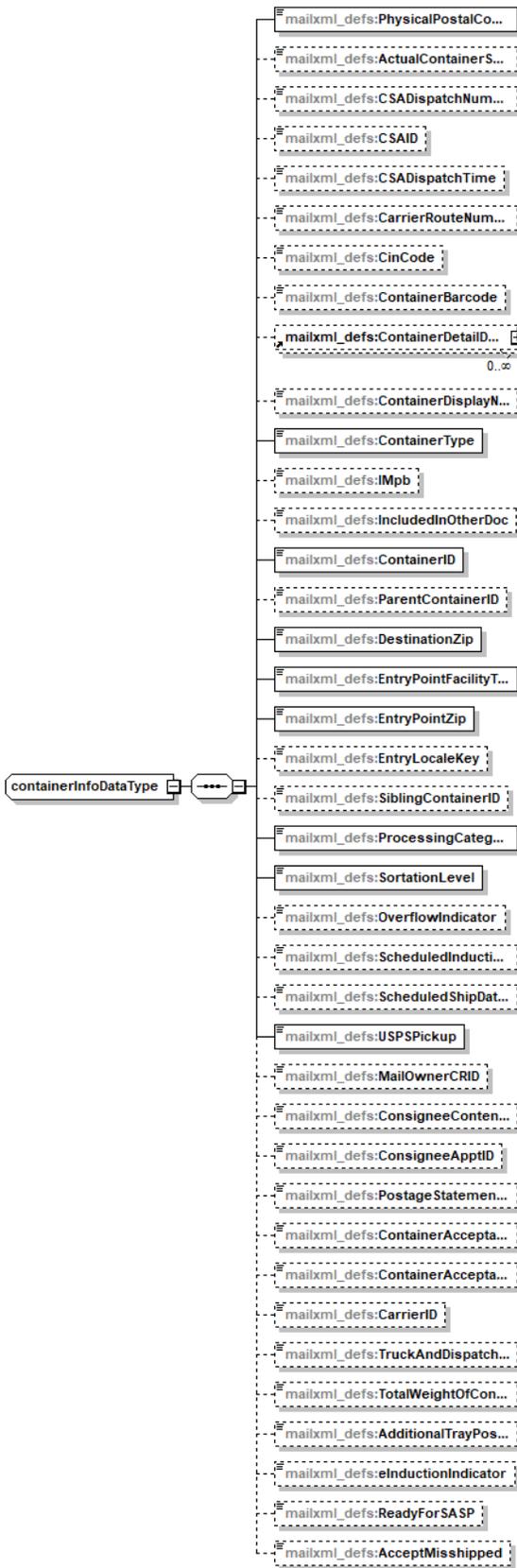
diagram	
namespace	http://delivery-tech.org/Specs/mailxml25.3/mailxml_defs

complexType **ContainerInductedType**

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

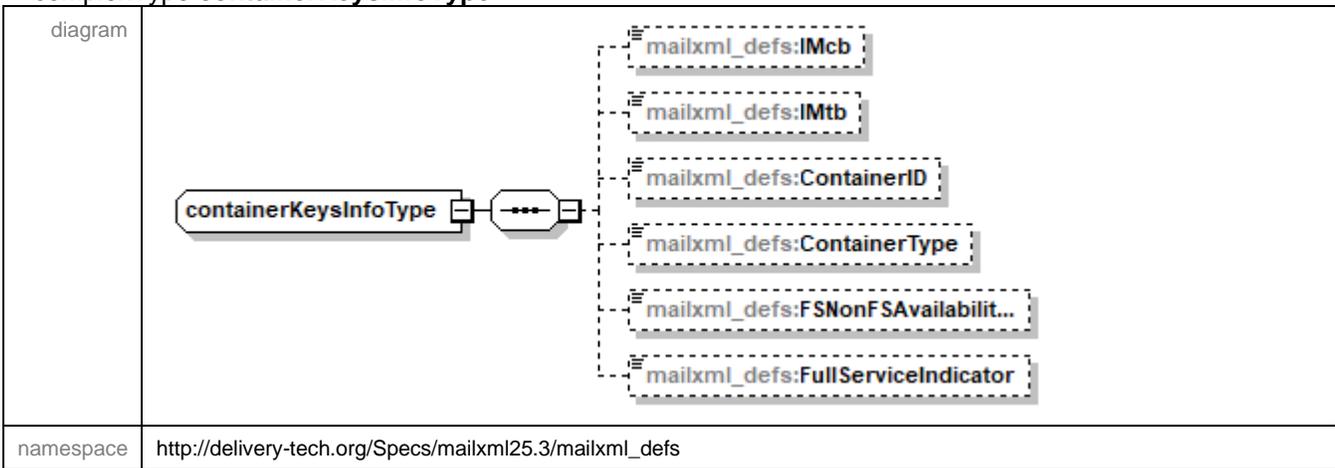
complexType **containerInfoDataType**

diagram

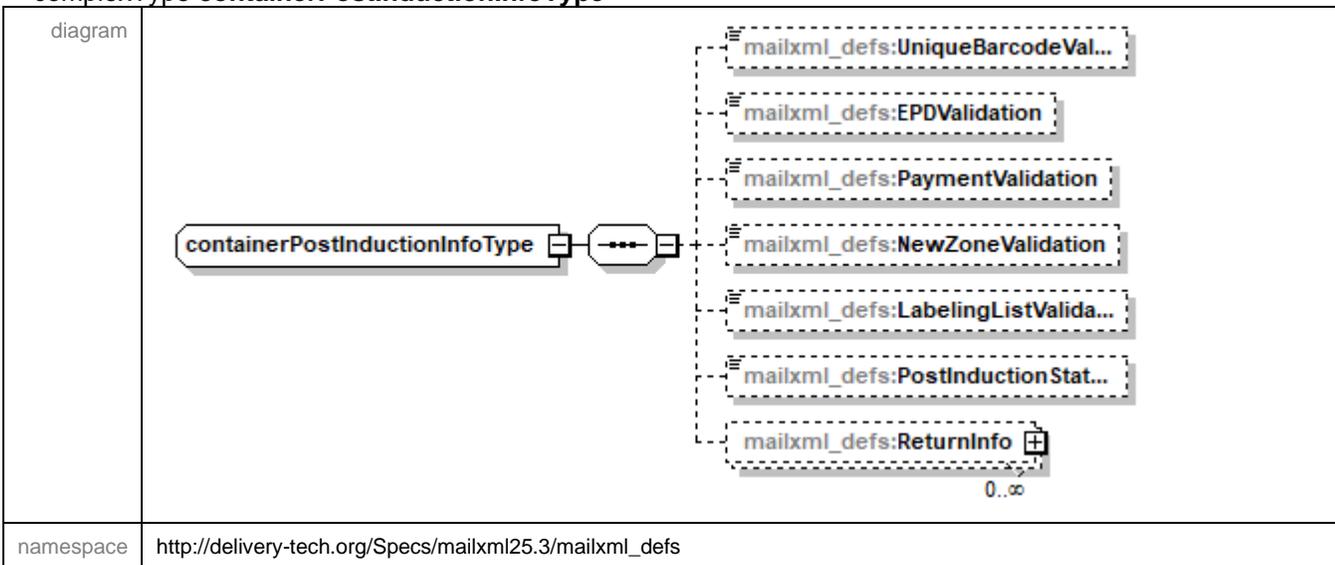


namespace	http://delivery-tech.org/Specs/mailxml25.3/mailxml_defs
-----------	---

complexType **containerKeysInfoType**



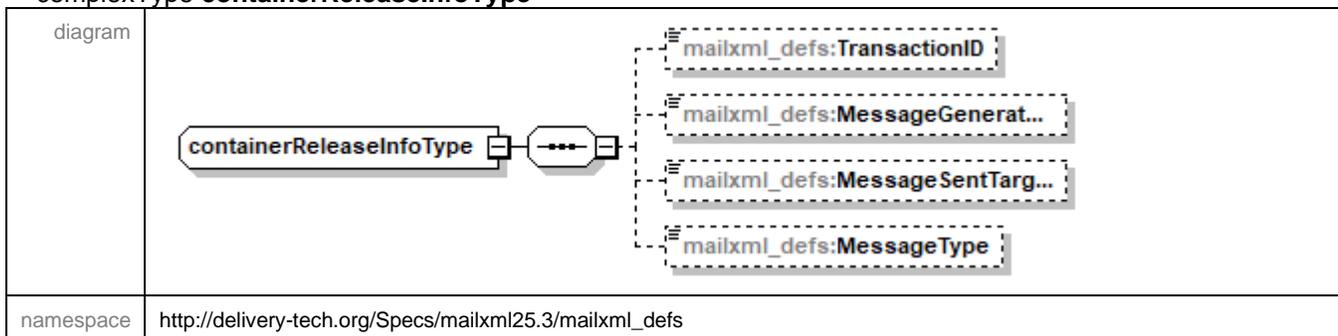
complexType **containerPostInductionInfoType**



complexType **containerPreInductionInfoType**

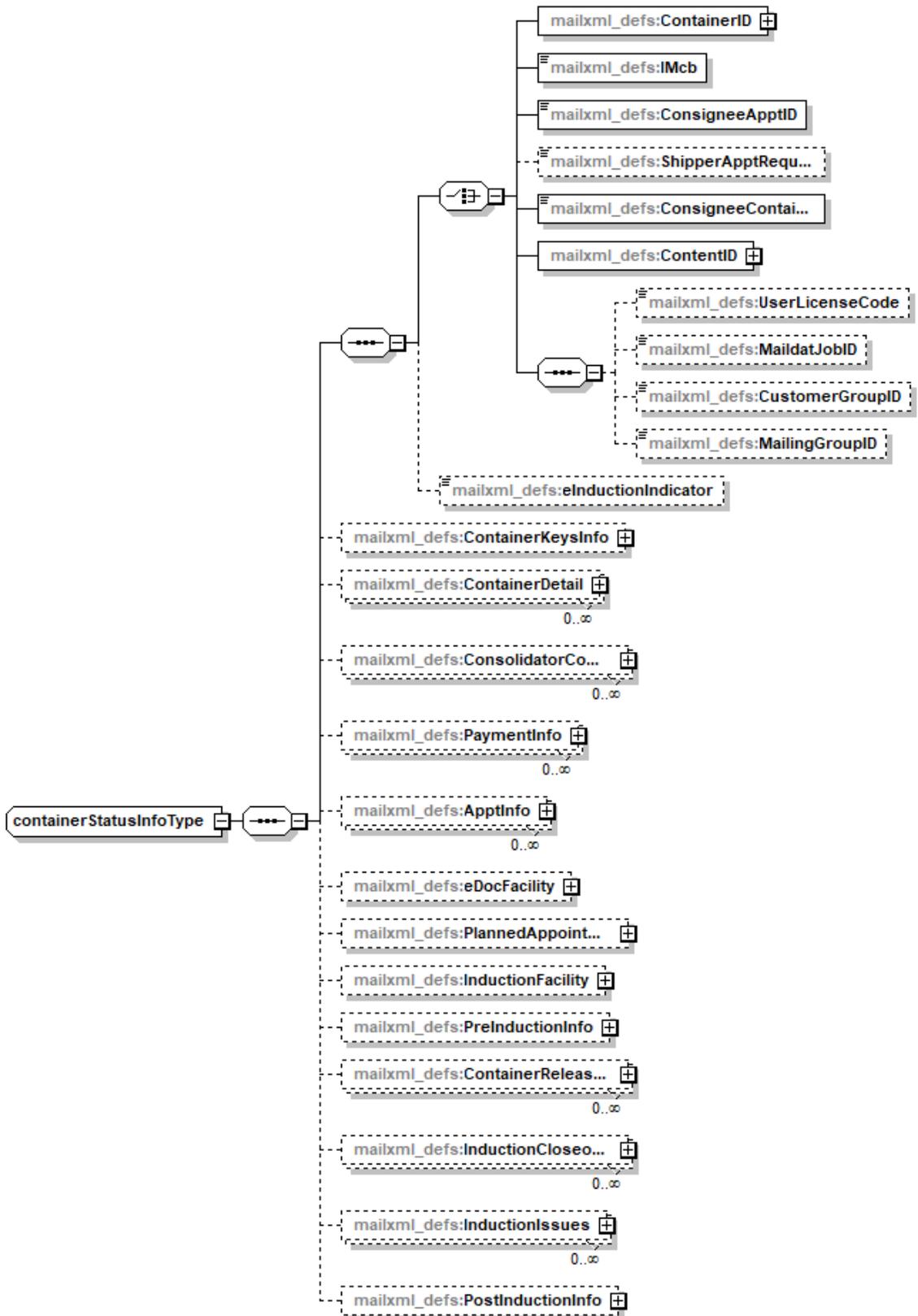


complexType **containerReleaseInfoType**



complexType containerStatusInfoType

diagram

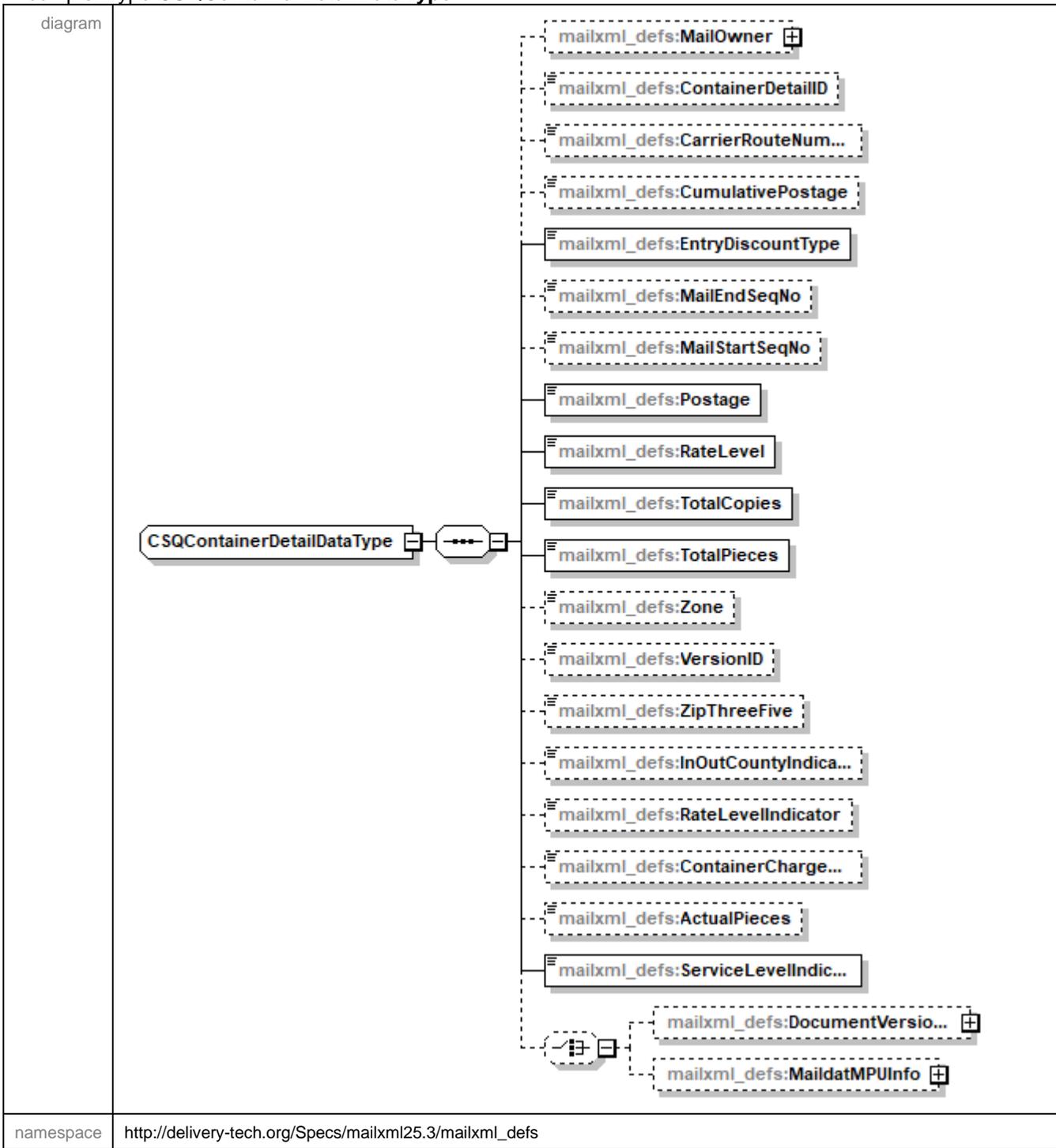


namespace	http://delivery-tech.org/Specs/mailxml25.3/mailxml_defs
-----------	---

complexType contentIDType

diagram	<pre> classDiagram class contentIDType { +attributes +mailxml_defs:ConsigneeConten... +mailxml_defs:SchedulerConten... } </pre>
namespace	http://delivery-tech.org/Specs/mailxml25.3/mailxml_defs

complexType CSQContainerDetailDataType



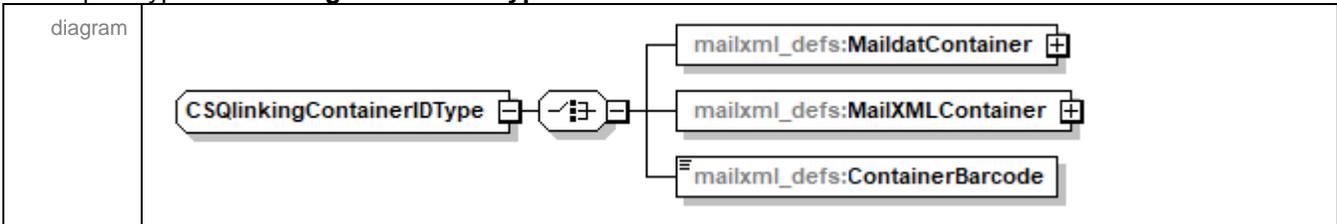
complexType **CSQcontainerInfoDataType**

diagram



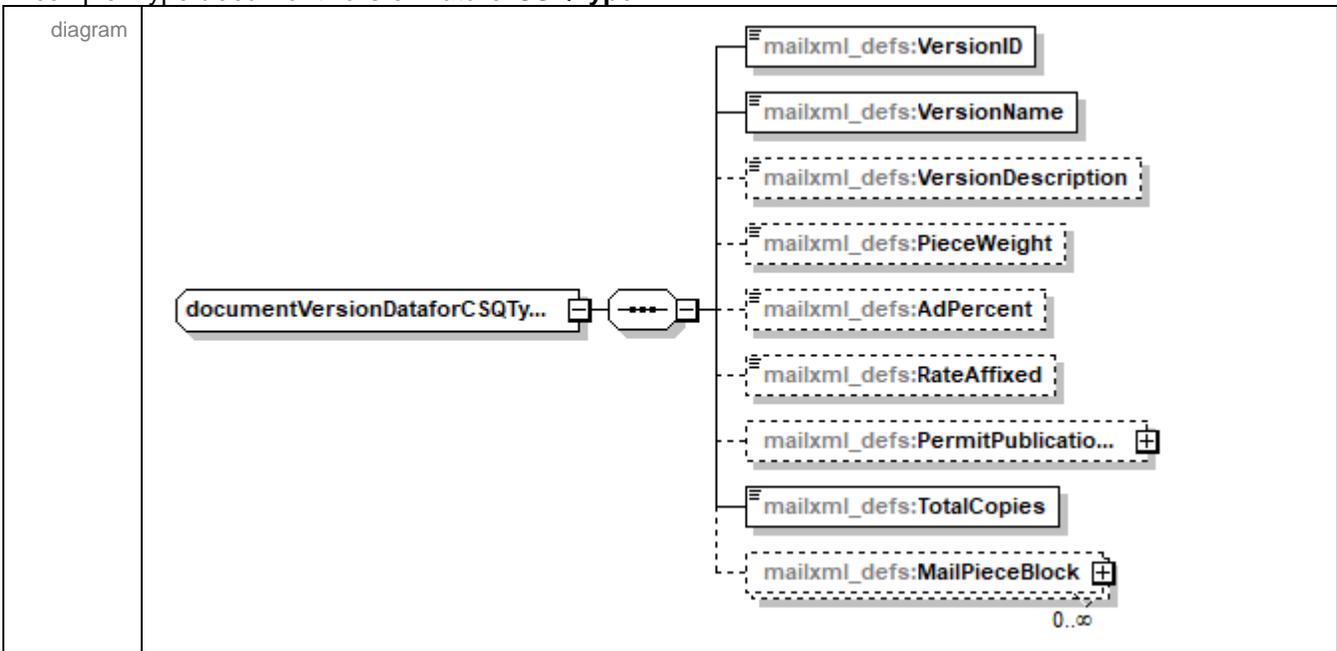
namespace	http://delivery-tech.org/Specs/mailxml25.3/mailxml_defs
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complexType CSQlinkingContainerIDType



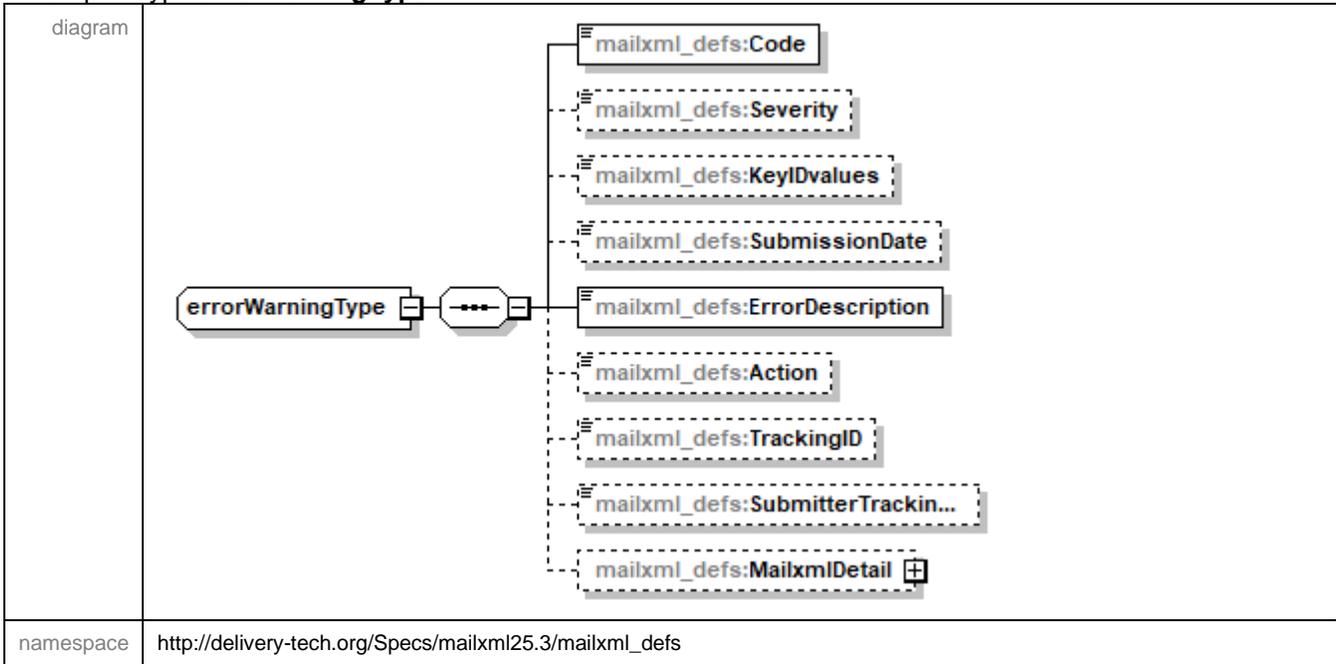
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complexType documentVersionDataforCSQType

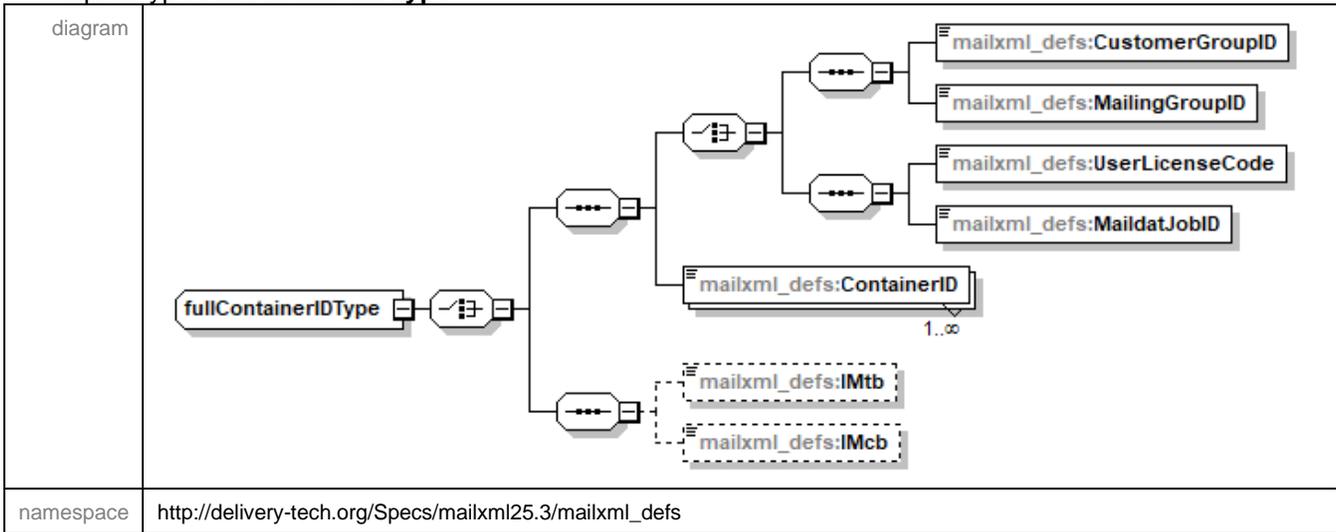


namespace	http://delivery-tech.org/Specs/mailxml25.3/mailxml_defs
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complexType errorWarningType



complexType fullContainerIDType



complexType **gPSCoordinates**

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

complexType **IMcbAndIMtbPieceScanInfoType**

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

complexType **IMcbPieceScanInfoType**

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

complexType **IMtbPieceScanInfoType**

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

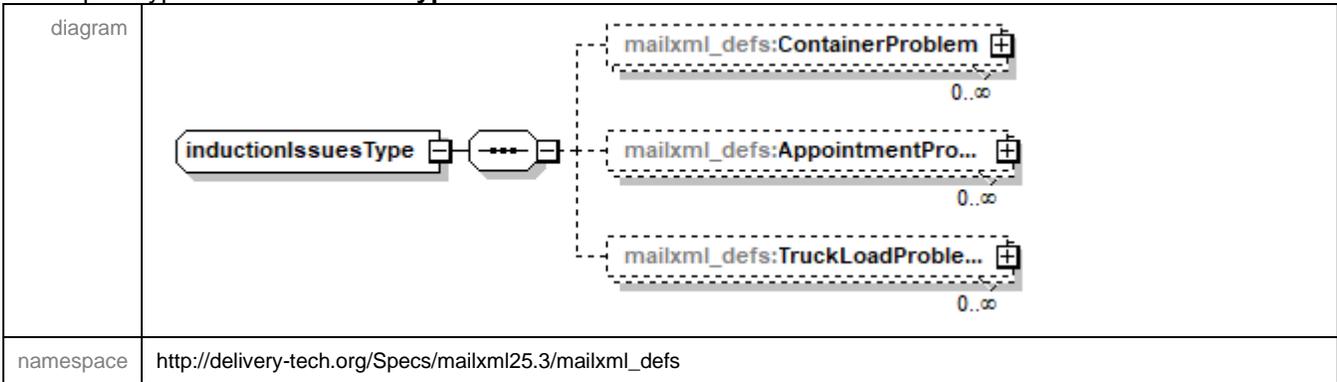
complexType **inductionCloseoutInfoType**

diagram

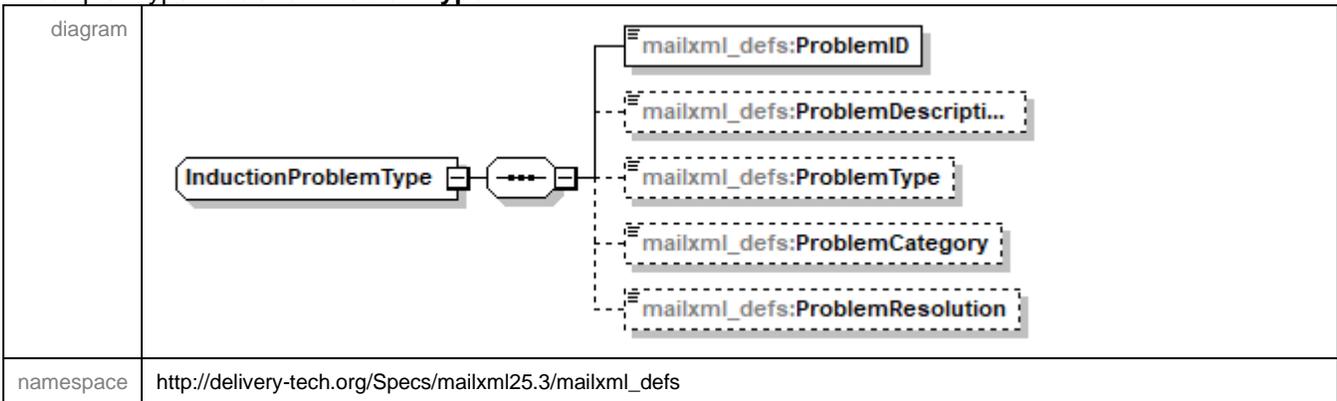


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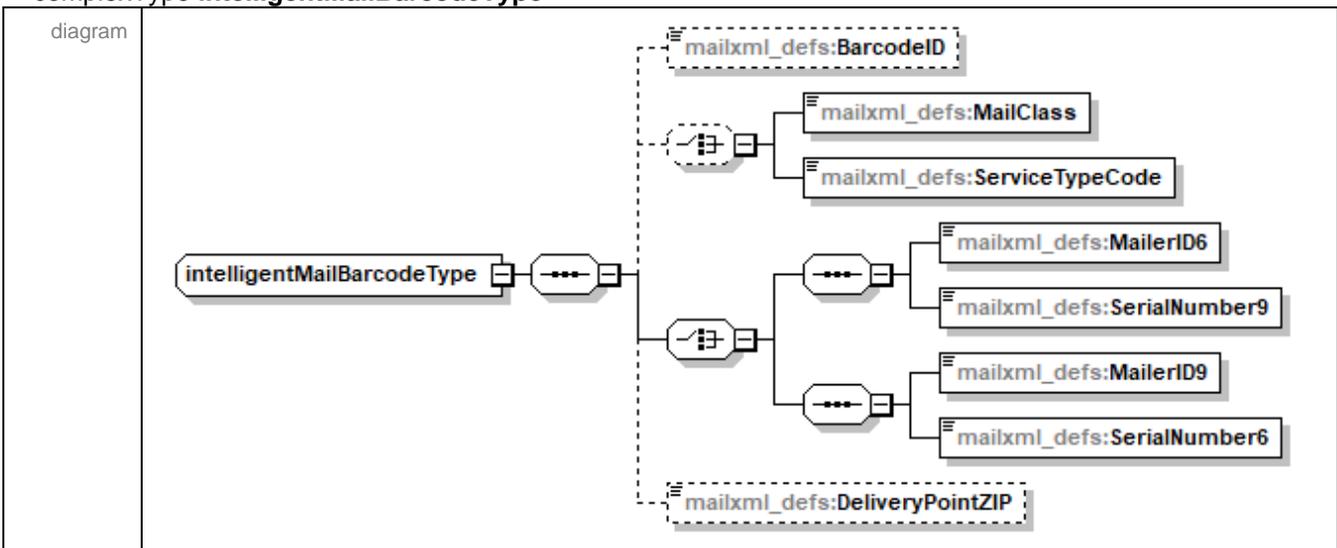
complexType inductionIssuesType



complexType InductionProblemType

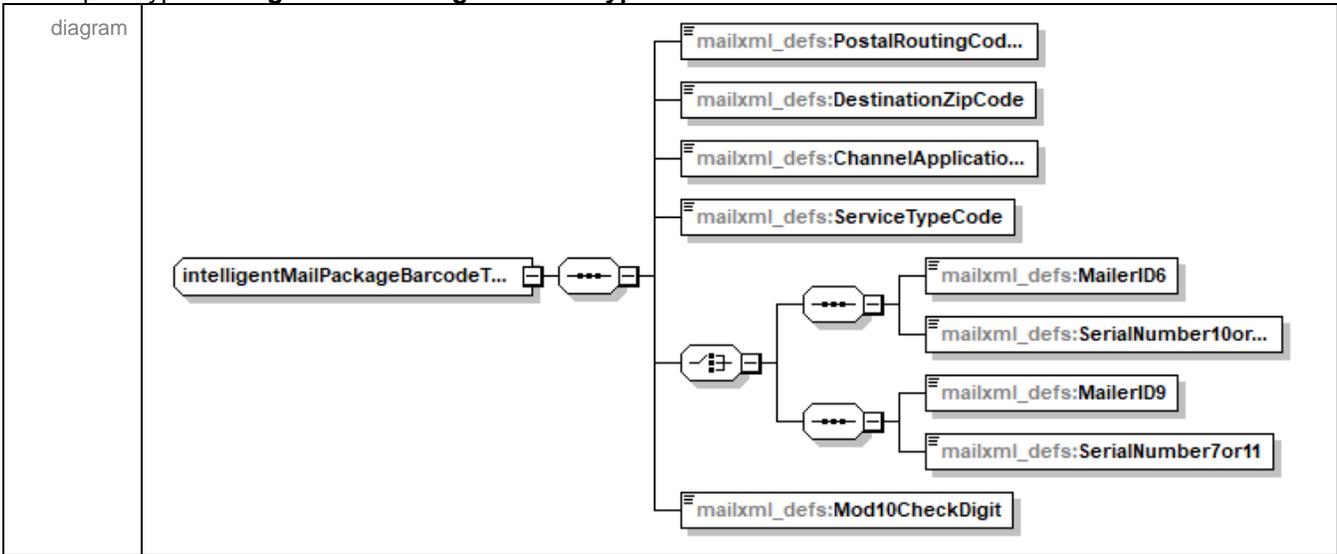


complexType intelligentMailBarcodeType

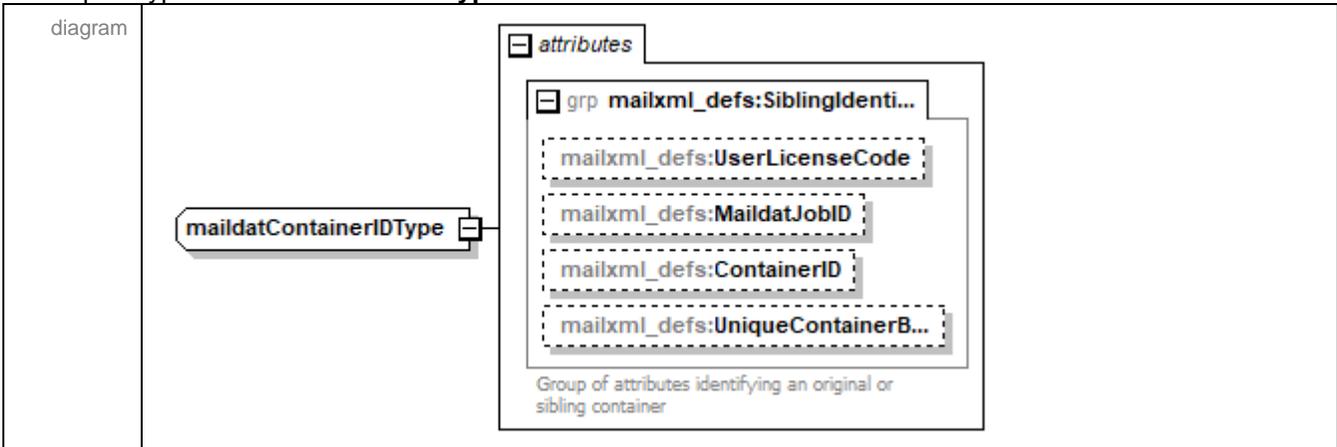


namespace	http://delivery-tech.org/Specs/mailxml25.3/mailxml_defs
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complexType intelligentMailPackageBarcodeType

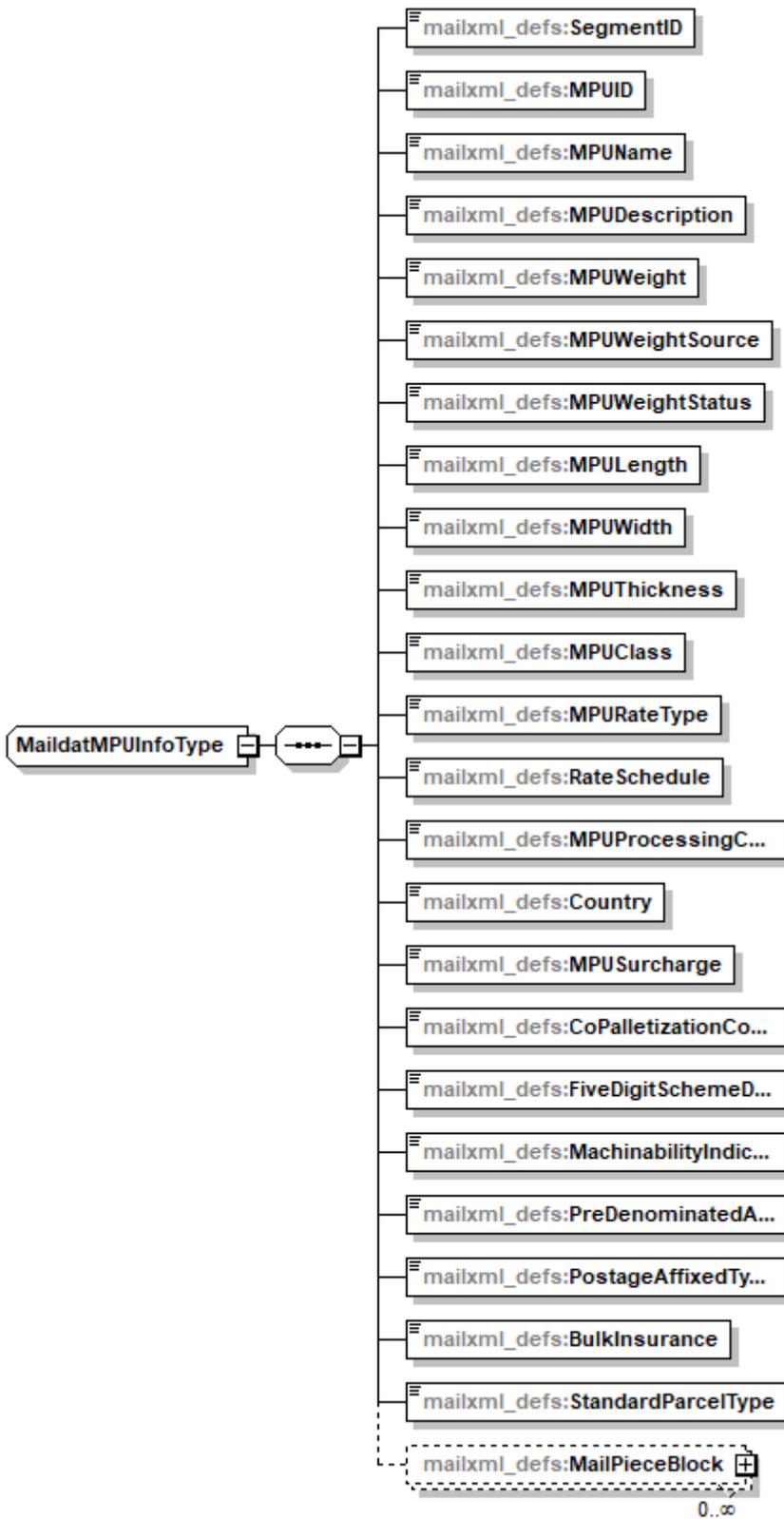


complexType maildatContainerIDType



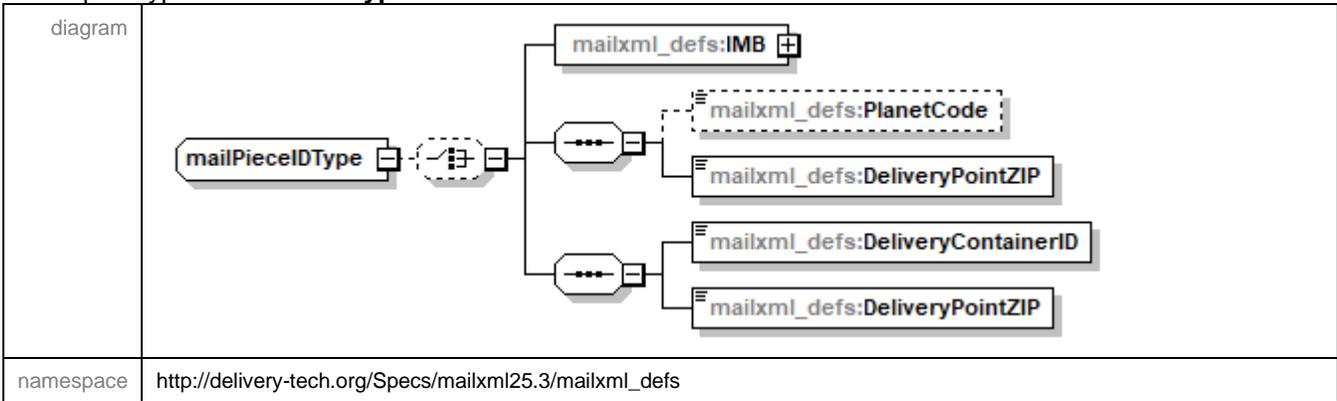
complexType MaildatMPUInfoType

diagram

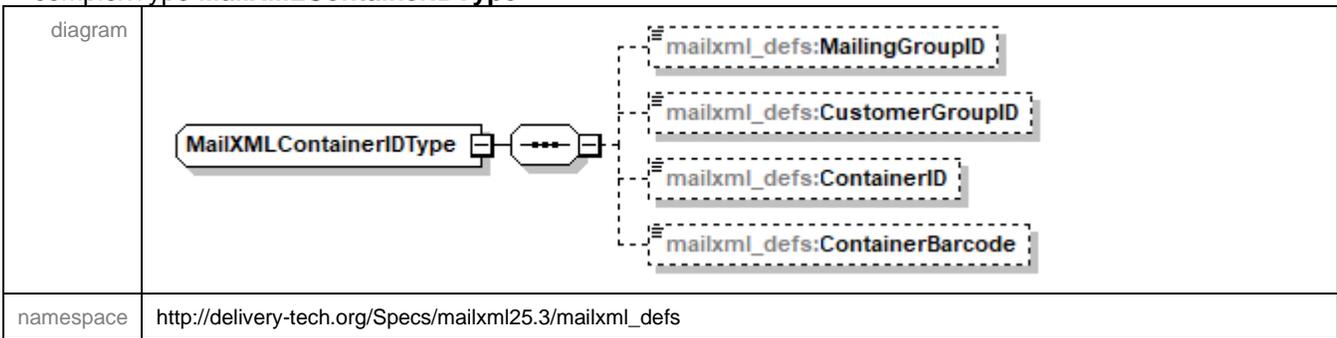


namespace	http://delivery-tech.org/Specs/mailxml25.3/mailxml_defs
-----------	---

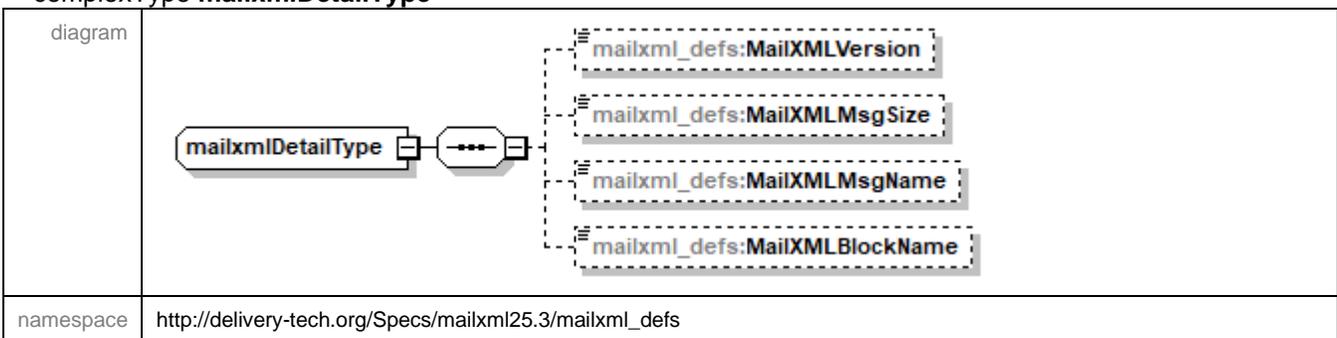
complexType mailPieceIDType



complexType MailXMLContainerIDType



complexType mailxmlDetailType



complexType measurementType

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

complexType MIDType

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

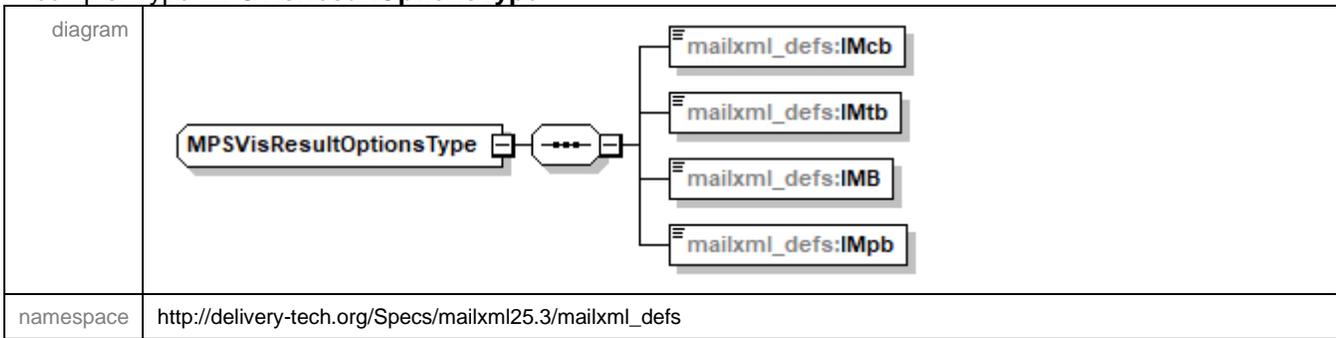
complexType MPSRBlockType

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

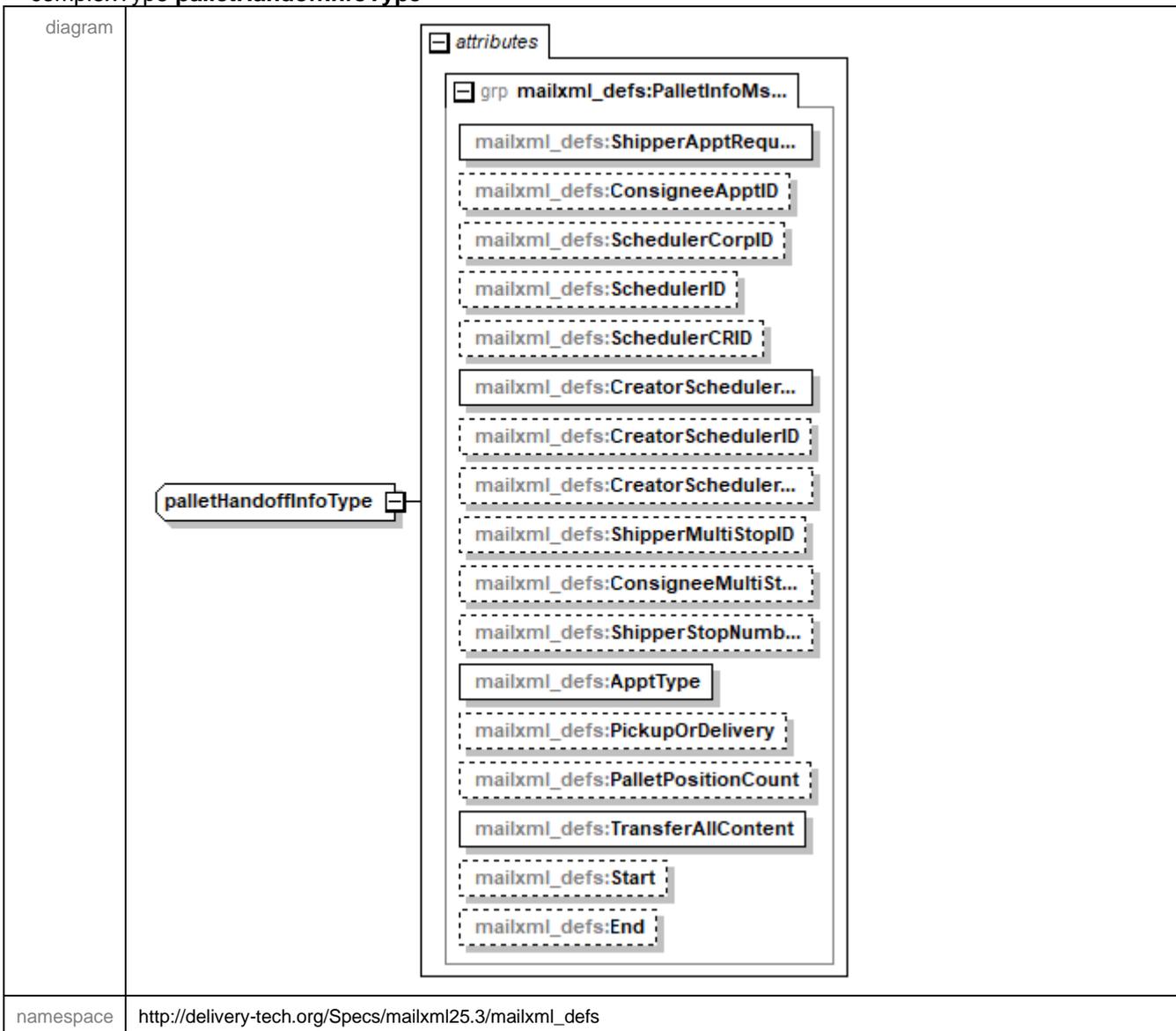
complexType MPSVisIncludedInScanRecFlagType

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

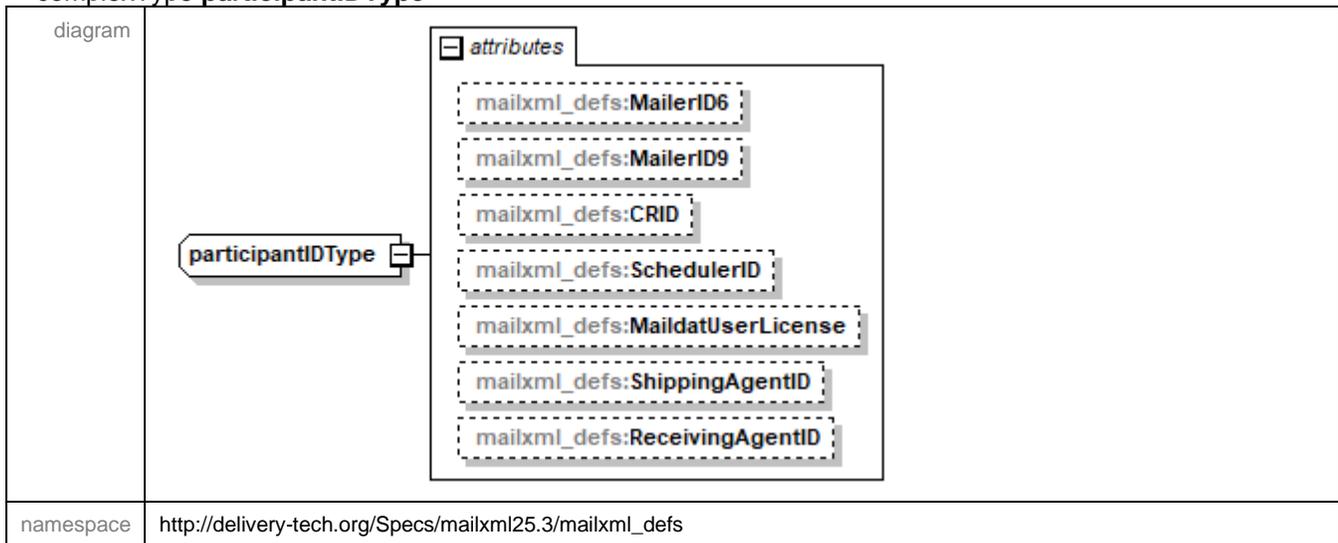
complexType **MPSVisResultOptionsType**



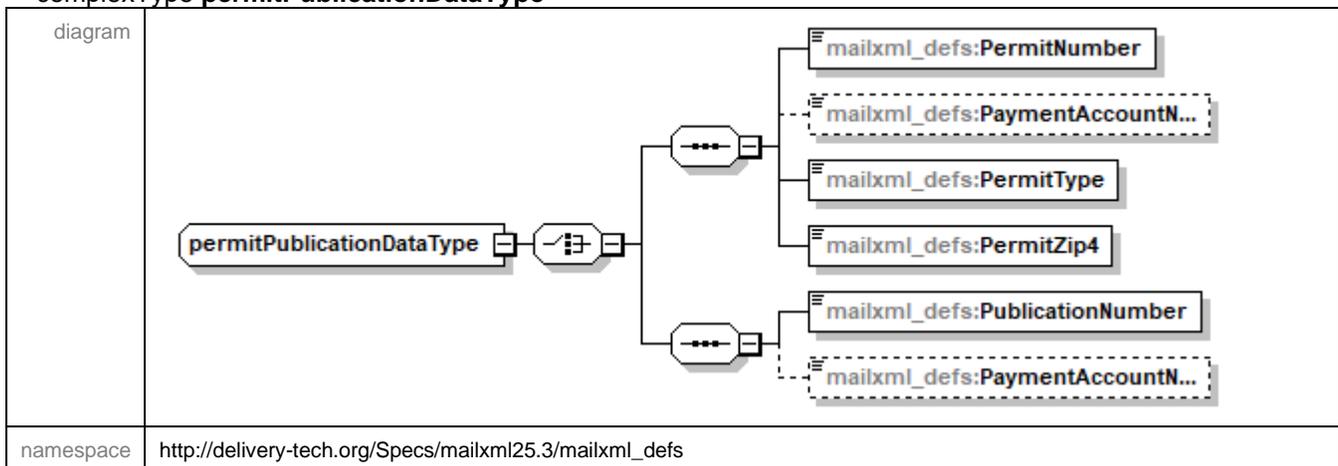
complexType **palletHandoffInfoType**



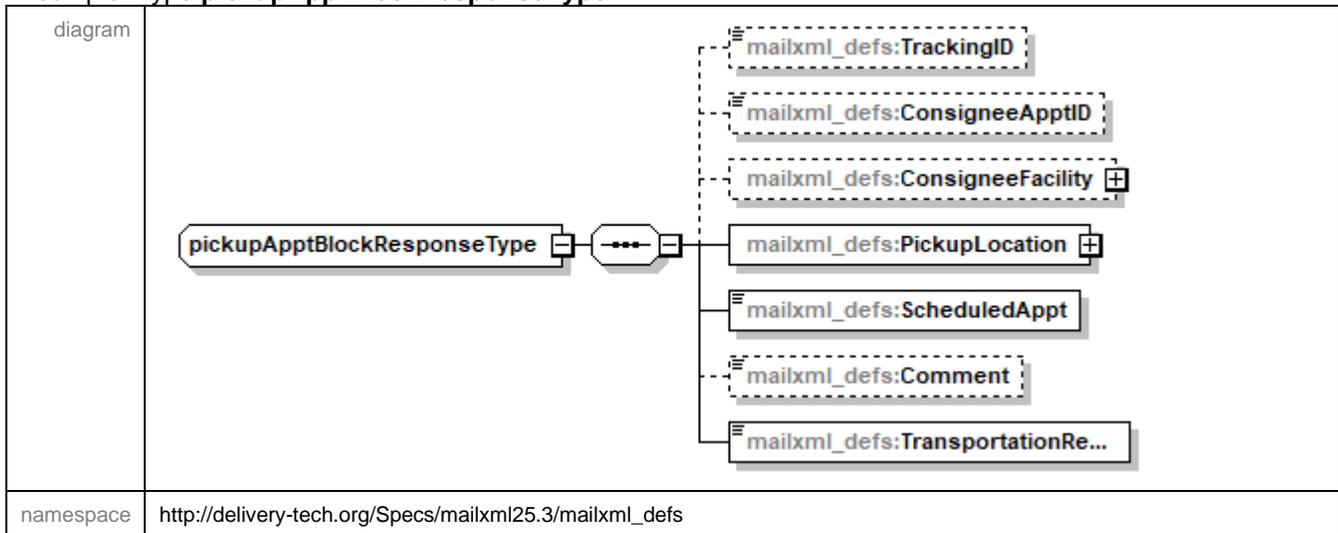
complexType **participantIDType**



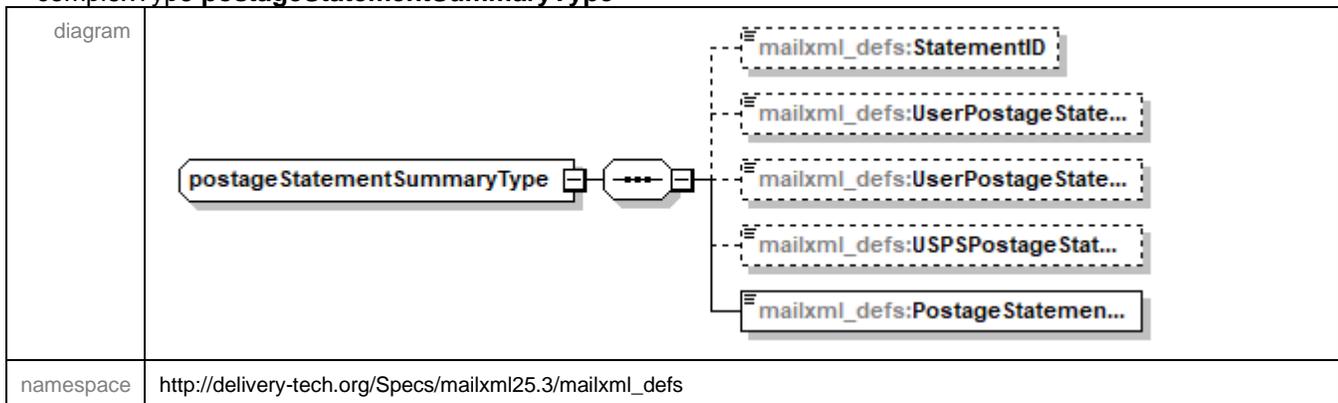
complexType **permitPublicationDataType**



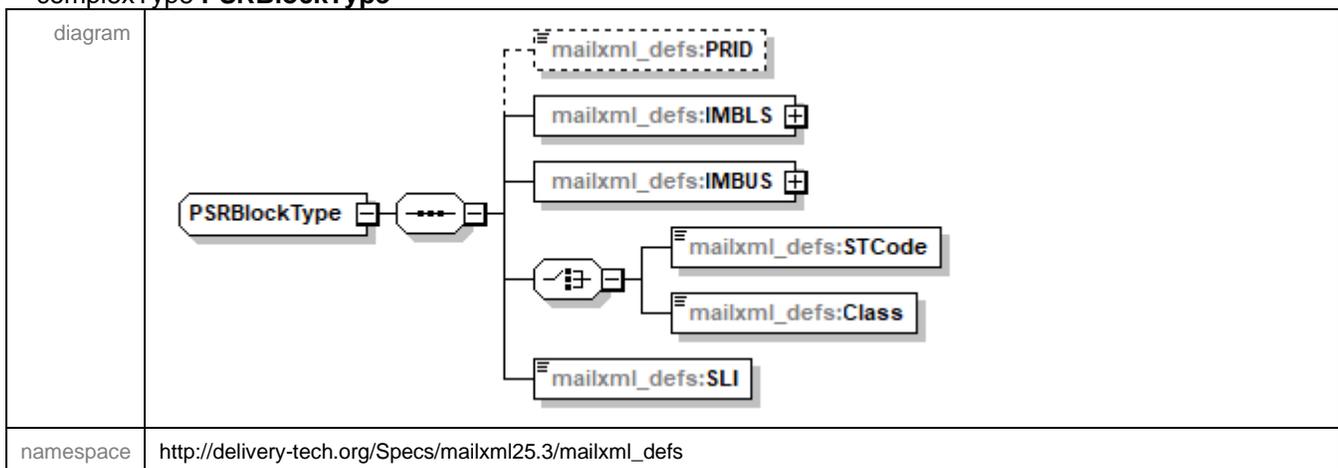
complexType **pickupApptBlockResponseType**



complexType **postageStatementSummaryType**



complexType **PSRBlockType**



complexType **queryErrorType**

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

complexType **returnInfoType**

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

complexType **scanEventType**

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

complexType submittingSoftwareType

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

complexType zipCode

diagram	
namespace	http://delivery-tech.org/Specs/mailxml25.3/mailxml_defs
type	extension of mailxml_base:ns09

simpleType bundleScanType

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

simpleType containerDiscrepancyCategoryType

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

simpleType containerScanStateType

namespace	http://delivery-tech.org/Specs/mailxml25.3/mailxml_defs
type	restriction of xs:string
annotation	documentation Scan data for Container Scan States

simpleType containerStatusType

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

simpleType **countTypeType**

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

simpleType **einductionDataSourceType**

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

simpleType **fullServiceComplianceIndicatorType**

namespace	http://delivery-tech.org/Specs/mailxml25.3/mailxml_defs
type	mailxml_base:yesNo

simpleType **MPSQueryType**

namespace	http://delivery-tech.org/Specs/mailxml25.3/mailxml_defs
type	restriction of xs:string
annotation	documentation Mail Piece Scan Query Type

simpleType **MPSStateType**

namespace	http://delivery-tech.org/Specs/mailxml25.3/mailxml_defs
type	restriction of xs:string
annotation	documentation Scan States for Mail Piece Scan Data

simpleType **pieceScanEventTypeType**

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

simpleType **problemCategoryType**

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

simpleType **problemTypeType**

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

simpleType **reasonCodeType**

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

simpleType **retrieveDataByType**

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

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