

# **Mail.XML Version 25.4**

## **System Messages Specification**

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## Abstract

This document describes the messaging protocol for use by mailers and their consignees. The Mail.XML™ Transaction Protocol defines the roles and responsibilities of Shippers and Consignees and defines the format and method for message exchange. This messaging protocol is designed to be XML and Web-Services compliant.

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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

## Table of Contents

Abstract.....	3
About Mail.XML™ .....	3
What's New in Mail.XML Version 25.4? .....	3
About Mail.XML Schema Modularization .....	4
Mail.XML Module Versioning Rules.....	4
Mail.XML 25.4 XSD Modules .....	5
The Mail.XML™ 25.4 Messaging Documentation Set.....	5
Schema mailxml_dd_25.4.xsd.....	8

## Schema mailxml\_dd\_25.4.xsd

schema location: [..\\XSDs\\mailxml\\_dd\\_25.4.xsd](#)  
attribute form default: qualified  
element form default: qualified  
targetNamespace: [http://delivery-tech.org/Specs/mailxml25.4/mailxml\\_dd](http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd)

### Elements

[AddressCorrection](#)  
[AddressCorrectionDelivery](#)  
[AddressCorrectionNotification](#)  
[AddressCorrectionQueryRequest](#)  
[AddressCorrectionQueryResponse](#)  
[ByForConflictDelivery](#)  
[ByForConflictNotification](#)  
[ByForConflictQueryRequest](#)  
[ByForConflictQueryResponse](#)  
[ContainerVisibilityEntry](#)  
[DataQualityVerificationReportDelivery](#)  
[DataQualityVerificationReportNotification](#)  
[DataQualityVerificationReportQueryRequest](#)  
[DataQualityVerificationReportQueryResponse](#)  
[DeliveryPointValidation](#)  
[DeliveryPointValidationDelivery](#)  
[DeliveryPointValidationNotification](#)  
[DeliveryPointValidationQueryRequest](#)  
[DeliveryPointValidationQueryResponse](#)  
[IMbMailpieceScanData](#)  
[NixieDetail](#)  
[NixieDetailDelivery](#)  
[NixieDetailNotification](#)  
[NixieDetailQueryRequest](#)  
[NixieDetailQueryResponse](#)  
[NonComplianceDataWithPostageOwedQueryRequest](#)  
[NonComplianceDataWithPostageOwedReportDelivery](#)  
[NonComplianceDataWithPostageOwedReportNotification](#)  
[NonComplianceDataWithPostageOwedReportQueryResponse](#)  
[ScanSTCCount](#)  
[ScanSTCReconciliationDelivery](#)  
[ScanSTCReconciliationNotification](#)  
[ScanSTCReconciliationQueryRequest](#)  
[ScanSTCReconciliationQueryResponse](#)  
[StartTheClockBEMUBlock](#)  
[StartTheClockDropShipOrOrigin](#)

### Complex types

[addressCorrectionAddressType](#)  
[byForConflictType](#)  
[clockStartedType](#)  
[dgrContainerInfoType](#)  
[foreignAddressType](#)  
[manifestScanEventDetailType](#)  
[manifestScanNotificationDataType](#)  
[manifestScanQueryType](#)  
[MPSNotificationDataType](#)  
[MPSPResponseBlockType](#)  
[MPSVisScanQueryType](#)  
[newAddressCorrectionAddressType](#)  
[nonComplianceDataWithPostageOwedReportType](#)  
[PSRResponseBlockType](#)  
[unManifestedScanEventDetailType](#)  
[verificationErrorType](#)

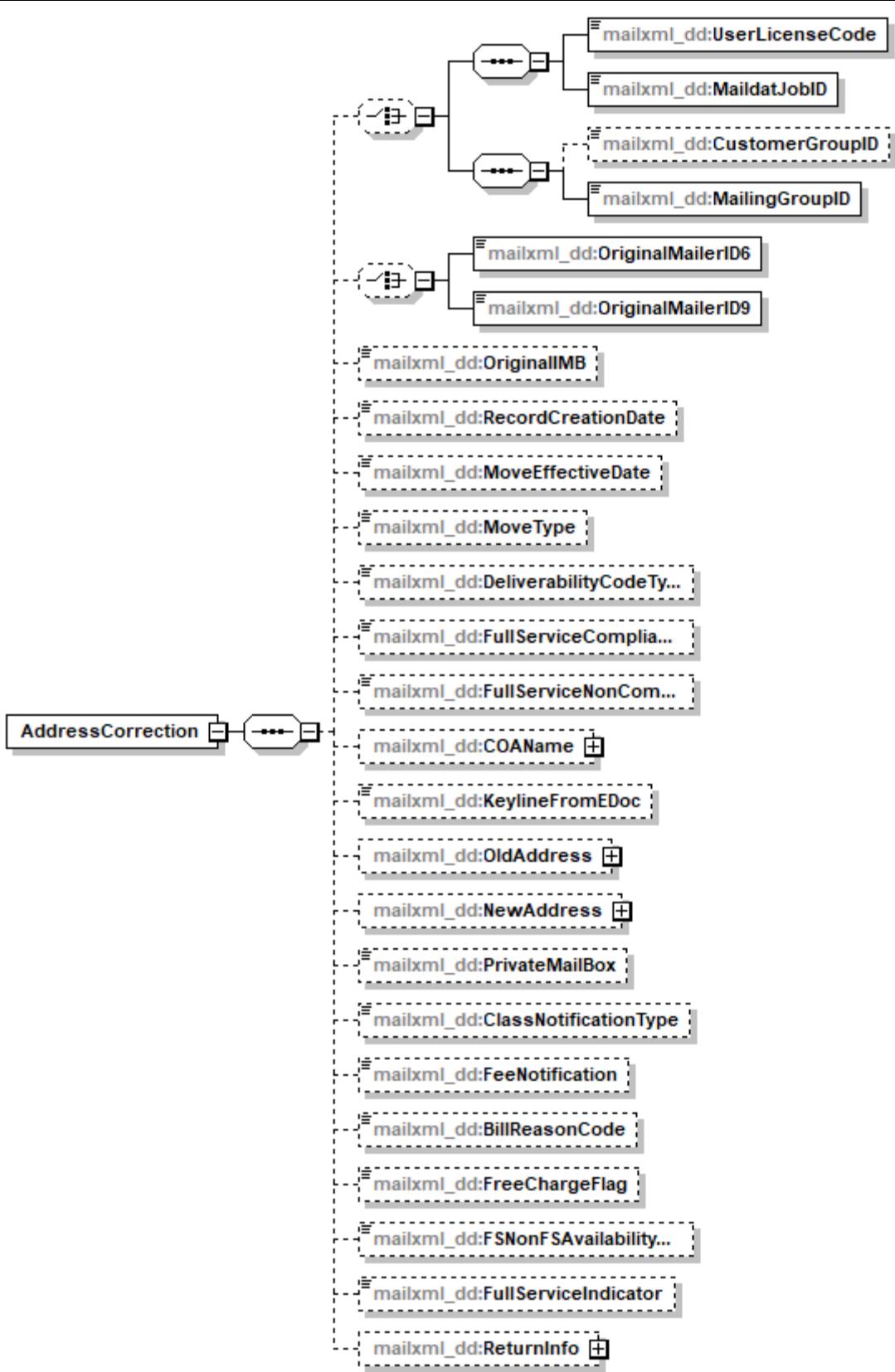
### Simple types

[addressCorrectionMoveType](#)  
[addressTypeType](#)  
[containerScanStateType](#)  
[deliverabilityCodeType](#)  
[eDocTypeType](#)  
[primarySecondaryIndicatorType](#)  
[verificationErrorTypeType](#)  
[verificationWarningTypeType](#)

[StartTheClockPlantLoadBlock](#)

element **AddressCorrection**

diagram



namespace	<a href="http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd">http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd</a>
-----------	---

element **AddressCorrectionDelivery**

diagram	<pre> classDiagram     class AddressCorrectionDelivery {         grp mailxml_defs:LargeTrans...         mailxml_defs:MessageGroupID         mailxml_defs:TotalMessageCou...         mailxml_defs:MessageSerialNu...         mailxml_defs:TransmittedRecor...         mailxml_defs:TotalRecordsAcro...         mailxml_defs:LastMessage     }     class SubmittingParty     class SubmittingSoftware     class DataRecipient     class PushMessageID     class AddressCorrection      AddressCorrectionDelivery "1..∞" --&gt; SubmittingParty     AddressCorrectionDelivery "1..∞" --&gt; SubmittingSoftware     AddressCorrectionDelivery "1..∞" --&gt; DataRecipient     AddressCorrectionDelivery "1..∞" --&gt; PushMessageID     AddressCorrectionDelivery "1..∞" --&gt; AddressCorrection   </pre>
namespace	<a href="http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd">http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd</a>
annotation	documentation Delivery of address correction delivery data from USPS.

## element AddressCorrectionNotification

diagram	<pre> classDiagram     class AddressCorrectionNotification {         &lt;&lt;Notification from UPS that address correction data is ready to pick up.&gt;&gt;     }     class SubmittingParty     class SubmittingSoftware     class CRID     class PushMessageID     class UserLicenseCode     class MaildatJobID     class CustomerGroupID     class MailingGroupID     class FSNonFSAvailability...     class NotificationDate     class AvailableRecordCou...      AddressCorrectionNotification "1..&gt;" SubmittingParty     AddressCorrectionNotification "1..&gt;" SubmittingSoftware     AddressCorrectionNotification "1..&gt;" CRID     AddressCorrectionNotification "1..&gt;" PushMessageID     AddressCorrectionNotification "*" UserLicenseCode     AddressCorrectionNotification "*" MaildatJobID     AddressCorrectionNotification "*" CustomerGroupID     AddressCorrectionNotification "*" MailingGroupID     AddressCorrectionNotification "*" FSNonFSAvailability...     AddressCorrectionNotification "*" NotificationDate     AddressCorrectionNotification "*" AvailableRecordCou...   </pre> <p>The diagram illustrates the structure of the <code>AddressCorrectionNotification</code> element. It consists of several components:</p> <ul style="list-style-type: none"> <li><code>AddressCorrectionNotification</code>: The main element, described as a "Notification from UPS that address correction data is ready to pick up."</li> <li><code>SubmittingParty</code>, <code>SubmittingSoftware</code>, <code>CRID</code>, and <code>PushMessageID</code>: These are simple elements associated with the main notification.</li> <li><code>UserLicenseCode</code>, <code>MaildatJobID</code>, <code>CustomerGroupID</code>, and <code>MailingGroupID</code>: These are elements associated via multiplicity "*" (zero or more).</li> <li><code>FSNonFSAvailability...</code>, <code>NotificationDate</code>, and <code>AvailableRecordCou...</code>: These are elements associated via multiplicity "*" (zero or more).</li> </ul>
namespace	<a href="http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd">http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd</a>
annotation	documentation Notification from UPS that address correction data is ready to pick up.

## element AddressCorrectionQueryRequest

diagram	<pre> classDiagram     class AddressCorrectionQueryReq... {         &lt;&lt;Query request for full service address correction data.&gt;&gt;     }     class SubmittingParty     class SubmittingSoftware     class SubmitterTrackingID     class OwningParty     class PieceRequest     class retrieveDataBy      AddressCorrectionQueryReq... "1..&gt;" SubmittingParty     AddressCorrectionQueryReq... "1..&gt;" SubmittingSoftware     AddressCorrectionQueryReq... "1..&gt;" SubmitterTrackingID     AddressCorrectionQueryReq... "1..&gt;" OwningParty     AddressCorrectionQueryReq... "1..&gt;" PieceRequest     AddressCorrectionQueryReq... "*" retrieveDataBy   </pre> <p>The diagram illustrates the structure of the <code>AddressCorrectionQueryRequest</code> element. It consists of several components:</p> <ul style="list-style-type: none"> <li><code>AddressCorrectionQueryReq...</code>: The main element, described as a "Query request for full service address correction data."</li> <li><code>SubmittingParty</code>, <code>SubmittingSoftware</code>, <code>SubmitterTrackingID</code>, and <code>OwningParty</code>: These are simple elements associated with the main query request.</li> <li><code>PieceRequest</code>: This is an element associated via multiplicity "*" (zero or more).</li> <li><code>retrieveDataBy</code>: This is an element associated via multiplicity "*" (zero or more).</li> </ul>
namespace	<a href="http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd">http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd</a>
annotation	documentation Query request for full service address correction data.

element **AddressCorrectionQueryResponse**

diagram	<p>The diagram shows the structure of the AddressCorrectionQueryResponse element. It consists of a main class box labeled "AddressCorrectionQueryResp..." with a brief description: "Response to the query request for full service address correction data." An association line connects this class to a "attributes" compartment. Inside the compartment, there is a group box labeled "grp mailxml_defs:LargeTrans..." containing several attributes: "mailxml_defs:MessageGroupID", "mailxml_defs:TotalMessageCou...", "mailxml_defs:MessageSerialNu...", "mailxml_defs:TransmittedRecor...", and "mailxml_defs:TotalRecordsAcro...". Below this group is another attribute, "mailxml_defs:LastMessage", enclosed in a dashed box. From the "AddressCorrectionQueryResponse" class, two association lines branch out to a dashed box labeled "mailxml_dd:TrackingID" and another dashed box labeled "mailxml_dd:SubmitterTrackingID". From the "mailxml_dd:SubmitterTrackingID" box, two lines lead to a junction point, which then connects to two final boxes: "mailxml_dd:QueryResults" and "mailxml_defs:QueryError". A note below "mailxml_defs:QueryError" states: "Error issued when the query data cannot be provided."</p>
namespace	<a href="http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd">http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd</a>
annotation	documentation Response to the query request for full service address correction data.

element **ByForConflictDelivery**

diagram	<p>The diagram shows the structure of the <b>ByForConflictDelivery</b> element. It consists of a main class <b>ByForConflictDelivery</b> with the following attributes:</p> <ul style="list-style-type: none"><li><b>grp mailxml_defs:LargeTrans...</b> (grouped attribute)</li><li><b>mailxml_defs:MessageGroupID</b></li><li><b>mailxml_defs:TotalMessageCou...</b></li><li><b>mailxml_defs:Message SerialNu...</b></li><li><b>mailxml_defs:TransmittedRecor...</b></li><li><b>mailxml_defs:TotalRecordsAcro...</b></li><li><b>mailxml_defs:LastMessage</b></li></ul> <p>Below the attributes, there is a multiplicity of <b>1..∞</b>. This leads to a sequence of elements:</p> <ul style="list-style-type: none"><li><b>mailxml_dd:SubmittingParty</b></li><li><b>mailxml_dd:Submitting Software</b></li><li><b>mailxml_defs:DataRecipient</b></li><li><b>mailxml_dd:PushMessageID</b></li><li><b>mailxml_dd:ByForConflict</b></li></ul> <p>A note below the main class states: "Delivery of by / for conflict information from USPS."</p>
namespace	<a href="http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd">http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd</a>
annotation	documentation Delivery of by / for conflict information from USPS.

## element ByForConflictNotification

diagram	<pre> graph LR     A[ByForConflictNotification] --&gt; B[SubmittingParty]     A --&gt; C[SubmittingSoftware]     A --&gt; D[PushMessageID]     D --&gt; E[UserLicenseCode]     D --&gt; F[MaildatJobID]     D --&gt; G[CustomerGroupID]     G --&gt; H[MailingGroupID]     G --&gt; I[FSNonFSAvailability...]     G --&gt; J[NotificationDate]     G --&gt; K[AvailableRecordCou...]   </pre>
namespace	<a href="http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd">http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd</a>
annotation	documentation Notification from USPS that a by / for conflict resolution is ready for pickup.

## element ByForConflictQueryRequest

diagram	<pre> graph LR     A[ByForConflictQueryRequest] --&gt; B[SubmittingParty]     A --&gt; C[SubmittingSoftware]     A --&gt; D[SubmitterTrackingID]     D --&gt; E[UserLicenseCode]     D --&gt; F[MaildatJobID]     D --&gt; G[CustomerGroupID]     G --&gt; H[MailingGroupID]     I[retrieveDataBy]   </pre>
namespace	<a href="http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd">http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd</a>
annotation	documentation Query request for by(preparer) / for(owner) conflicts information in edocs.

element **ByForConflictQueryResponse**

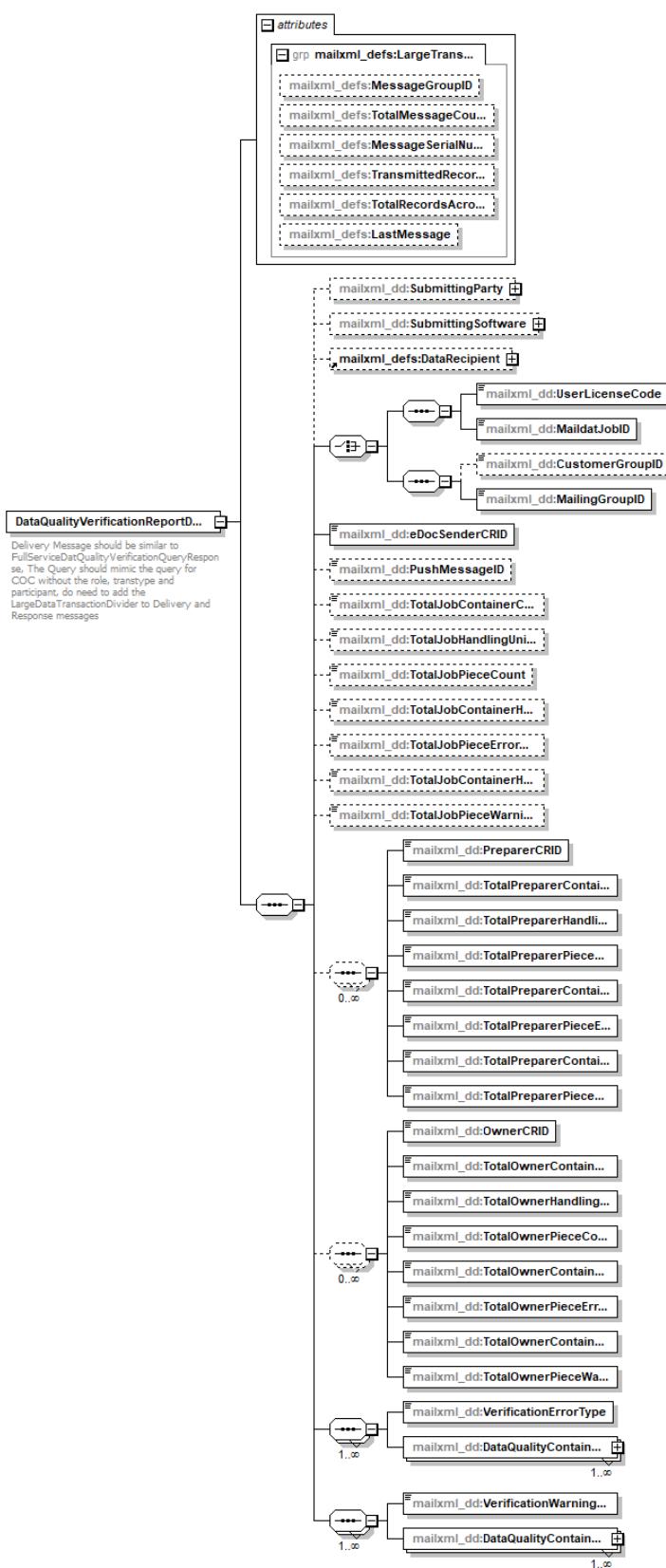
diagram	<p>The diagram shows the structure of the <b>ByForConflictQueryResponse</b> element. It consists of a main class box labeled <b>ByForConflictQueryResponse</b> with a note below it: "Response to the query by(preparer) / for(owner) conflicts information in edocs." A line connects this class to a larger box labeled <b>attributes</b>. Inside the <b>attributes</b> box, there is a group box labeled <b>grp mailxml_defs:LargeTrans...</b> containing several attributes: <b>mailxml_defs:MessageGroupID</b>, <b>mailxml_defs:TotalMessageCou...</b>, <b>mailxml_defs:MessageSerialNu...</b>, <b>mailxml_defs:TransmittedRecor...</b>, and <b>mailxml_defs:TotalRecordsAcro...</b>. Below this group is another attribute: <b>mailxml_defs:LastMessage</b>. A dashed line connects <b>mailxml_defs:LastMessage</b> to a sequence of three objects: <b>mailxml_dd:TrackingID</b>, <b>mailxml_dd:SubmitterTrackingID</b>, and a choice point. From this choice point, two paths lead to <b>mailxml_dd:QueryResults</b> and <b>mailxml_defs:QueryError</b>. A note below <b>mailxml_defs:QueryError</b> states: "Error issued when the query data cannot be provided."</p>
namespace	<a href="http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd">http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd</a>
annotation	documentation Response to the query by(preparer) / for(owner) conflicts information in edocs.

element **ContainerVisibilityEntry**

diagram	<p>The diagram illustrates the structure of the <b>ContainerVisibilityEntry</b> element. It consists of several components:</p> <ul style="list-style-type: none"><li><b>ContainerVisibilityEntry</b>: The main container, represented by a rectangle with a boundary.</li><li><b>Associations</b>: Lines connecting the main container to various sub-elements. Some associations are solid, while others are dashed.</li><li><b>Sub-elements</b>: These are contained within the main container's boundary and include:<ul style="list-style-type: none"><li><b>mailxml_dd:UserLicenseCode</b></li><li><b>mailxml_dd:MaildatJobID</b></li><li><b>mailxml_dd:CustomerGroupID</b></li><li><b>mailxml_dd:MailingGroupID</b></li><li><b>mailxml_dd:ConsigneeApptID</b></li><li><b>mailxml_dd:LogicalIndicator</b></li><li><b>mailxml_dd:CSAID</b></li><li><b>mailxml_dd:ContainerID</b></li><li><b>mailxml_dd:ParentContainerID</b></li><li><b>mailxml_dd:SiblingContainerID</b></li><li><b>mailxml_dd:ContainerType</b></li><li><b>mailxml_dd:ScanEvent</b> (with a plus sign, indicating it can be expanded)</li><li><b>mailxml_dd:IMcb</b></li><li><b>mailxml_dd:IMtb</b></li><li><b>mailxml_dd:IMpb</b></li><li><b>mailxml_dd:FullServiceComplia...</b></li><li><b>mailxml_dd:FullServiceNonCom...</b></li><li><b>mailxml_dd:FSNonFSAvailability...</b></li><li><b>mailxml_dd:FullServiceIndicator</b></li></ul></li></ul>
namespace	<a href="http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd">http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd</a>

## element DataQualityVerificationReportDelivery

diagram



namespace	<a href="http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd">http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd</a>
annotation	<p>documentation</p> <p>Delivery Message should be similar to FullServiceDatQualityVerificationQueryResponse, The Query should mimic the query for COC without the role, transtype and participant, do need to add the LargeDataTransactionDivide to Delivery and Response messages</p>

## element **DataQualityVerificationReportNotification**

diagram	<pre> sequenceDiagram     participant DQRN as DataQualityVerificationReportNotification     participant SP as mailxml_dd:SubmittingParty     participant SS as mailxml_dd:SubmittingSoftware     participant PM as mailxml_dd:PushMessageID     participant UL as mailxml_dd:UserLicenseCode     participant MJ as mailxml_dd:MaildatJobID     participant CG as mailxml_dd:CustomerGroupID     participant EDCR as mailxml_dd:eDocSenderCRID     participant VET as mailxml_dd:VerificationErrorType     participant VWT as mailxml_dd:VerificationWarningType     participant FNS as mailxml_dd:FSNonFSAvailability     participant ND as mailxml_dd:NotificationDate     participant ARC as mailxml_dd:AvailableRecordCount      DQRN-&gt;&gt;SP:      DQRN-&gt;&gt;SS:      DQRN-&gt;&gt;PM:      SP--&gt;&gt;UL     SP--&gt;&gt;MJ     SP--&gt;&gt;CG     SS--&gt;&gt;EDCR     PM--&gt;&gt;VET     PM--&gt;&gt;VWT     PM--&gt;&gt;FNS     PM--&gt;&gt;ND     PM--&gt;&gt;ARC   </pre>
namespace	<a href="http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd">http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd</a>
annotation	documentation Notification from USPS that a full service data quality verification report is ready for pickup.

element **DataQualityVerificationReportQueryRequest**

diagram	<p>The diagram illustrates the structure of the <b>DataQualityVerificationReportQueryRequest</b> element. It consists of the following components:</p> <ul style="list-style-type: none"><li><b>DataQualityVerificationReportQueryRequest</b>: The main class, represented by a rectangle with a dashed border.</li><li><b>mailxml_dd:SubmittingParty</b>, <b>mailxml_dd:SubmittingSoftware</b>, and <b>mailxml_dd:SubmitterTrackingID</b>: These are objects associated with the main class via aggregation relationships, indicated by hollow circles with dashed lines.</li><li><b>mailxml_dd:UserLicenseCode</b>, <b>mailxml_dd:MaildatJobID</b>, <b>mailxml_dd:CustomerGroupID</b>, and <b>mailxml_dd:MailingGroupID</b>: These are objects associated with the <b>SubmitterTrackingID</b> object via composition relationships, indicated by solid circles with dashed lines.</li><li><b>mailxml_dd:eDocSenderCRID</b>: An object associated with the <b>DataQualityVerificationReportQueryRequest</b> class via a simple association relationship.</li><li><b>mailxml_dd:VerificationErrorType</b> and <b>mailxml_dd:VerificationWarningType</b>: These are objects associated with the <b>DataQualityVerificationReportQueryRequest</b> class via multiplicity relationships, indicated by arrows labeled <b>1..∞</b>.</li><li><b>mailxml_dd:retrieveDataBy</b>: A final object associated with the <b>DataQualityVerificationReportQueryRequest</b> class via a multiplicity relationship, indicated by an arrow labeled <b>1..∞</b>.</li></ul>
namespace	<a href="http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd">http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd</a>
annotation	documentation Query request for full service data quality reports.

element **DataQualityVerificationReportQueryResponse**

diagram	<p>The diagram illustrates the structure of the <b>DataQualityVerificationReportQueryResponse</b> element. It consists of a main class box labeled <b>DataQualityVerificationReportQ...</b> which contains the following annotations: - Response to the Request for Full Service Data Quality Verification Reports A dependency arrow points from this class to another class box labeled <b>attributes</b>. Inside the <b>attributes</b> box, there is a group box labeled <b>grp mailxml_defs:LargeTrans...</b> containing several attributes: - mailxml_defs:MessageGroupID - mailxml_defs:TotalMessageCou... - mailxml_defs:MessageSerialNu... - mailxml_defs:TransmittedRecor... - mailxml_defs:TotalRecordsAcro... - mailxml_defs:LastMessage Below the <b>attributes</b> box, there is a connector with two ports. One port connects to a class box labeled <b>mailxml_dd:TrackingID</b>, and the other port connects to another class box labeled <b>mailxml_dd:SubmitterTrackingID</b>. From the <b>mailxml_dd:SubmitterTrackingID</b> box, a dependency arrow points to a class box labeled <b>mailxml_dd:QueryResults</b>. Another dependency arrow points from <b>mailxml_dd:QueryResults</b> to a class box labeled <b>mailxml_defs:QueryError</b>. The <b>mailxml_defs:QueryError</b> box has the following annotation: - Error issued when the query data cannot be provided.</p>
namespace	<a href="http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd">http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd</a>
annotation	<p>documentation</p> <p>Response to the Request for Full Service Data Quality Verification Reports</p>

element **DeliveryPointValidation**

diagram	<p>The diagram illustrates the structure of the <b>DeliveryPointValidation</b> element. It consists of a central node labeled <b>DeliveryPointValidation</b>, which is connected via a dashed line to a sequence of nodes. This sequence starts with a node containing three dots (...), followed by a solid line leading to a node with two dots (...). This pattern repeats, with another node containing three dots (...), a solid line, and another node with two dots (...). The final node in the sequence contains three dots (...).</p> <p>Associated with these nodes are several data fields:</p> <ul style="list-style-type: none"><li>Two nodes with three dots (...), each connected to a pair of nodes:<ul style="list-style-type: none"><li>The first pair contains <b>mailxml_dd:OriginalMailerID6</b> and <b>mailxml_dd:OriginalMailerID9</b>.</li><li>The second pair contains <b>mailxml_dd:UserLicenseCode</b> and <b>mailxml_dd:MaildatJobID</b>.</li><li>The third pair contains <b>mailxml_dd:CustomerGroupID</b> and <b>mailxml_dd:MailingGroupID</b>.</li></ul></li><li>A single node with three dots (...), connected to a pair of nodes:<ul style="list-style-type: none"><li>The first node contains <b>mailxml_dd:InvalidDeliveryPoint...</b>.</li><li>The second node contains <b>mailxml_dd:PrimarySecondaryIn...</b>.</li></ul></li><li>A single node with three dots (...), connected to a pair of nodes:<ul style="list-style-type: none"><li>The first node contains <b>mailxml_dd:DPVDataRecipientCR...</b>.</li><li>The second node contains <b>mailxml_dd:FullServiceComplia...</b>.</li></ul></li><li>A single node with three dots (...), connected to a pair of nodes:<ul style="list-style-type: none"><li>The first node contains <b>mailxml_dd:FullServiceNonCom...</b>.</li><li>The second node contains <b>mailxml_dd:FullServiceIndicator</b> (enclosed in a dashed box).</li></ul></li><li>A single node with three dots (...), connected to a pair of nodes:<ul style="list-style-type: none"><li>The first node contains <b>mailxml_dd:FSNonFSAvailability...</b>.</li><li>The second node contains <b>mailxml_dd:ReturnInfo</b> (enclosed in a dashed box).</li></ul></li></ul>
namespace	<a href="http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd">http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd</a>

element **DeliveryPointValidationDelivery**

diagram	<pre> classDiagram     class DeliveryPointValidationDelivery {         grp mailxml_defs:LargeTrans...         mailxml_defs:MessageGroupID         mailxml_defs:TotalMessageCou...         mailxml_defs:MessageSerialNu...         mailxml_defs:TransmittedRecor...         mailxml_defs&gt;TotalRecordsAcro...         mailxml_defs&gt;LastMessage         mailxml_dd:SubmittingParty         mailxml_dd:SubmittingSoftware         mailxml_defs&gt;DataRecipient         mailxml_dd:UserLicenseCode         mailxml_dd:MaildatJobID         mailxml_dd:CustomerGroupID         mailxml_dd:MailingGroupID         mailxml_dd:PushMessageID         mailxml_dd:DeliveryPointValida...     } </pre>
namespace	<a href="http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd">http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd</a>
annotation	<p>documentation Delivery of Delivery Point Validation by USPS.</p>

element **DeliveryPointValidationNotification**

diagram	<pre> graph LR     NP[DeliveryPointValidationNotificati...]     NP --- SP[mailxml_dd:SubmittingParty]     NP --- SS[mailxml_dd:SubmittingSoftware]     NP --- CRID[mailxml_dd:CRID]     NP --- PMID[mailxml_dd:PushMessageID]     NP --- UL[mailxml_dd:UserLicenseCode]     NP --- MJID[mailxml_dd:MaildatJobID]     NP --- CGID[mailxml_dd:CustomerGroupID]     NP --- MGID[mailxml_dd:MailingGroupID]     NP --- FSNA[mailxml_dd:FSNonFSAvailability...]     NP --- ND[mailxml_dd:NotificationDate]     NP --- ARCO[mailxml_dd:AvailableRecordCou...]      CRID -.-&gt; PMID     CRID -.-&gt; UL     CRID -.-&gt; MJID     CRID -.-&gt; CGID     CRID -.-&gt; MGID     CRID -.-&gt; FSNA     CRID -.-&gt; ND     CRID -.-&gt; ARCO   </pre> <p>Notification by UPS that Delivery Point Validation is ready for pickup.</p>
namespace	<a href="http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd">http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd</a>
annotation	documentation Notification by UPS that Delivery Point Validation is ready for pickup.

element **DeliveryPointValidationQueryRequest**

diagram	<pre> graph LR     NP[DeliveryPointValidationQueryRe...]     NP --- SP[mailxml_dd:SubmittingParty]     NP --- SS[mailxml_dd:SubmittingSoftware]     NP --- STID[mailxml_dd:SubmitterTrackingID]     NP --- RCID[mailxml_dd:RequestorCRID]     NP --- OMID6[mailxml_dd:OriginalMailerID6]     NP --- OMID9[mailxml_dd:OriginalMailerID9]     NP --- UL[mailxml_dd:UserLicenseCode]     NP --- MJID[mailxml_dd:MaildatJobID]     NP --- CGID[mailxml_dd:CustomerGroupID]     NP --- MGID[mailxml_dd:MailingGroupID]     NP --- DR[mailxml_dd:DateRange]     NP --- RD[mailxml_dd:retrieveDataBy]      STID -.-&gt; RCID     STID -.-&gt; OMID6     STID -.-&gt; OMID9     STID -.-&gt; UL     STID -.-&gt; MJID     STID -.-&gt; CGID     STID -.-&gt; MGID     STID -.-&gt; DR     STID -.-&gt; RD   </pre> <p>Query request for USPS for delivery point validation.</p>
namespace	<a href="http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd">http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd</a>

annotation	documentation Query request for USPS for delivery point validation.
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### element **DeliveryPointValidationQueryResponse**

diagram	<p>The diagram illustrates the structure of the <b>DeliveryPointValidationQueryResponse</b> element. It features a main class box labeled <b>DeliveryPointValidationQueryRe...</b> with a description: "Response to the Query request for USPS for delivery point validation." An association line connects this class to a box labeled <b>attributes</b>, which contains a group named <b>grp mailxml_defs:LargeTrans...</b> containing several attributes: <b>mailxml_defs:MessageGroupID</b>, <b>mailxml_defs:TotalMessageCou...</b>, <b>mailxml_defs:MessageSerialNu...</b>, <b>mailxml_defs:TransmittedRecor...</b>, <b>mailxml_defs:TotalRecordsAcro...</b>, and <b>mailxml_defs:LastMessage</b>. Another association line connects the <b>DeliveryPointValidationQueryResponse</b> class to a dashed box labeled <b>mailxml_dd:TrackingID</b>, which is further associated with <b>mailxml_dd:SubmitterTrackingID</b>. A third association line connects the <b>DeliveryPointValidationQueryResponse</b> class to a box containing <b>mailxml_dd:QueryResults</b> and <b>mailxml_defs:QueryError</b>. The <b>mailxml_defs:QueryError</b> box has a note: "Error issued when the query data cannot be provided."</p>
namespace	<a href="http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd">http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd</a>
annotation	documentation Response to the Query request for USPS for delivery point validation.

element **IMbMailpieceScanData**

diagram	<p>The diagram illustrates the structure of the <b>IMbMailpieceScanData</b> element. It starts with a class box labeled <b>IMbMailpiece ScanData</b>, which has a multiplicity of <b>1..*</b> indicated by three dots. An association line connects it to a dashed box containing four sub-elements: <b>mailxml_dd:UserLicenseCode</b>, <b>mailxml_dd:MaildatJobID</b>, <b>mailxml_dd:CustomerGroupID</b>, and <b>mailxml_dd:MailingGroupID</b>. From this dashed box, another association line leads to a solid box labeled <b>mailxml_dd:MailBundleCount</b>. From <b>MailBundleCount</b>, two lines branch out to <b>mailxml_dd:MPSCount</b> and a composite structure. The composite structure contains three elements: <b>mailxml_dd:IMcbAndIMtbPiece...</b> (multiplicity <b>1..∞</b>), <b>mailxml_dd:IMcbPiece ScanInfo</b> (multiplicity <b>1..∞</b>), and <b>mailxml_dd:IMtbPiece ScanInfo</b> (multiplicity <b>1..∞</b>). Finally, an association line connects the <b>IMtbPiece ScanInfo</b> element to a final class box labeled <b>mailxml_dd:IMb ScanRec</b>.</p>
namespace	<a href="http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd">http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd</a>

element **NixieDetail**

diagram	<p>The diagram illustrates the structure of the <b>NixieDetail</b> element. It starts with a base class <b>Nixie</b>, indicated by a dashed line connecting to a box labeled <b>Nixie</b>. This is followed by a sequence of inheritance arrows pointing down to specific detail classes. The first arrow points to <b>OriginalMailerID</b>, which then branches into <b>OriginalMailerID6</b> and <b>OriginalMailerID9</b>. Another arrow points to <b>CustomerGroupID</b>, which further branches into <b>MailingGroupID</b> and <b>MaildatJobID</b>. A third arrow points to <b>UserLicenseCode</b>. Subsequent arrows point to <b>RecordCreationDate</b>, <b>ActionCode</b>, <b>ParsedAddressOnP...</b>, <b>OnPieceCityStateZip</b>, <b>ReturnedToAddress</b>, <b>ReturnedToCityStat...</b>, <b>ReasonCode</b>, <b>KeylineFromEDoc</b>, <b>ClassNotificationType</b>, <b>FeeNotification</b>, <b>FullServiceComplia...</b>, <b>FullServiceNonCom...</b>, <b>BillReasonCode</b>, <b>FreeChargeFlag</b>, <b>FSNonFSAvailability...</b>, <b>FullServiceIndicator</b>, and finally <b>ReturnInfo</b>.</p>
namespace	<a href="http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd">http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd</a>

annotation	documentation Full service nixie detail.
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### element NixieDetailDelivery

diagram	<p>NixieDetailDelivery</p> <p>Delivery from USPS of full service nixie detail.</p> <p>1..oo</p> <p>Full service nixie detail.</p>
namespace	<a href="http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd">http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd</a>
annotation	documentation Delivery from USPS of full service nixie detail.

**element NixieDetailNotification**

diagram	<p>The diagram illustrates the structure of the NixieDetailNotification element. It begins with a central node labeled "NixieDetailNotification". This node connects to a dashed-line container labeled "mailxml_dd:SubmittingParty" which contains "mailxml_dd:SubmittingSoftware". Inside "SubmittingSoftware", there is a node "mailxml_dd:CRID". Below "SubmittingParty" is a container "mailxml_dd:PushMessageID". From "PushMessageID", two dashed lines lead to two parallel sequence nodes. Each sequence node has three outgoing paths: one to "mailxml_dd:UserLicenseCode", another to "mailxml_dd:MaildatJobID", and a third to a dashed-line container "mailxml_dd:CustomerGroupID". From "CustomerGroupID", a dashed line leads to "mailxml_dd:MailingGroupID". Below "PushMessageID" are three more nodes: "mailxml_dd:FSNonFSAvailability...", "mailxml_dd:NotificationDate", and "mailxml_dd:AvailableRecordCou...".</p>
namespace	<a href="http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd">http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd</a>
annotation	documentation Notification by USPS that full service nixie detail is ready for pickup.

**element NixieDetailQueryRequest**

diagram	<p>The diagram illustrates the structure of the NixieDetailQueryRequest element. It begins with a central node labeled "NixieDetailQueryRequest". This node connects to a dashed-line container labeled "mailxml_dd:SubmittingParty" which contains "mailxml_dd:SubmittingSoftware". Inside "SubmittingSoftware", there is a node "mailxml_dd:SubmitterTrackingID". Below "SubmittingParty" is a container "mailxml_dd:RequestorCRID". From "RequestorCRID", two dashed lines lead to two parallel sequence nodes. Each sequence node has two outgoing paths: one to "mailxml_dd:OriginalMailerID6" and another to "mailxml_dd:OriginalMailerID9". Below "RequestorCRID" is a container "mailxml_dd:PieceRequest". A dashed line from "PieceRequest" leads to "mailxml_dd:retrieveDataBy". A multiplicity "1..∞" is shown near "retrieveDataBy".</p>
namespace	<a href="http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd">http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd</a>
annotation	documentation Query request for full service nixie detail.

## element NixieDetailQueryResponse

diagram	<pre> classDiagram     class NixieDetailQueryResponse {         &lt;&lt;Response to the Query request for full service nixie detail.&gt;&gt;         mailxml_defs:LargeTrans...         mailxml_defs:MessageGroupID         mailxml_defs:TotalMessageCou...         mailxml_defs:MessageSerialNu...         mailxml_defs:TransmittedRecor...         mailxml_defs:TotalRecordsAcro...         mailxml_defs:LastMessage         mailxml_dd:TrackingID         mailxml_dd:SubmitterTrackingID         mailxml_dd:QueryResults         mailxml_defs:QueryError     }     NixieDetailQueryResponse "1" *-- "1" mailxml_defs:LargeTrans...     NixieDetailQueryResponse "1" *-- "1" mailxml_defs:MessageGroupID     NixieDetailQueryResponse "1" *-- "1" mailxml_defs:TotalMessageCou...     NixieDetailQueryResponse "1" *-- "1" mailxml_defs:MessageSerialNu...     NixieDetailQueryResponse "1" *-- "1" mailxml_defs:TransmittedRecor...     NixieDetailQueryResponse "1" *-- "1" mailxml_defs:TotalRecordsAcro...     NixieDetailQueryResponse "1" *-- "1" mailxml_defs:LastMessage     NixieDetailQueryResponse "1" *-- "1" mailxml_dd:TrackingID     NixieDetailQueryResponse "1" *-- "1" mailxml_dd:SubmitterTrackingID     NixieDetailQueryResponse "1" *-- "1" mailxml_dd:QueryResults     NixieDetailQueryResponse "1" *-- "1" mailxml_defs:QueryError   </pre> <p>The diagram illustrates the structure of the <b>NixieDetailQueryResponse</b> element. It is a class with the following attributes:</p> <ul style="list-style-type: none"> <li><b>grp mailxml_defs:LargeTrans...</b></li> <li><b>mailxml_defs:MessageGroupID</b></li> <li><b>mailxml_defs:TotalMessageCou...</b></li> <li><b>mailxml_defs:MessageSerialNu...</b></li> <li><b>mailxml_defs:TransmittedRecor...</b></li> <li><b>mailxml_defs:TotalRecordsAcro...</b></li> <li><b>mailxml_defs:LastMessage</b></li> </ul> <p>Associations from <b>NixieDetailQueryResponse</b> include:</p> <ul style="list-style-type: none"> <li><b>mailxml_dd:TrackingID</b></li> <li><b>mailxml_dd:SubmitterTrackingID</b></li> <li><b>mailxml_dd:QueryResults</b></li> <li><b>mailxml_defs:QueryError</b></li> </ul> <p>A note indicates that <b>mailxml_dd:QueryResults</b> and <b>mailxml_defs:QueryError</b> are associated via a multiplicity of 1..1.</p>
namespace	<a href="http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd">http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd</a>
annotation	<p>documentation</p> <p>Response to the Query request for full service nixie detail.</p>

**element NonComplianceDataWithPostageOwedQueryRequest**

diagram	<p>Query request for full service Non Compliance Data reports.</p>
namespace	<a href="http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd">http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd</a>
annotation	documentation Query request for full service Non Compliance Data reports.

## element NonComplianceDataWithPostageOwedReportDelivery

diagram	<p>The diagram shows the structure of the <code>NonComplianceDataWithPostageOwedReportDelivery</code> element. It includes an <code>attributes</code> section with a group named <code>grp mailxml_defs:LargeTrans...</code> containing several attributes: <code>MessageGroupID</code>, <code>TotalMessageCou...</code>, <code>MessageSerialNu...</code>, <code>TransmittedRecor...</code>, <code>TotalRecordsAcro...</code>, and <code>LastMessage</code>. The main class has associations with <code>SubmittingParty</code>, <code>SubmittingSoftware</code>, <code>DataRecipient</code>, <code>PushMessageID</code>, <code>NonComplianceData</code> (with multiplicity <code>1..∞</code>), <code>FSNonFSAvailability</code>, and <code>FullServiceIndicator</code>.</p>
namespace	<a href="http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd">http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd</a>
annotation	documentation Delivery of by / for conflict information from USPS.

**element NonComplianceDataWithPostageOwedReportNotification**

diagram	
namespace	<a href="http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd">http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd</a>
annotation	documentation Notification from USPS that a full service non compliance data report is ready for pickup.

**element NonComplianceDataWithPostageOwedReportQueryResponse**

diagram	<pre> classDiagram     class NonComplianceDataWithPostageOwedReportQueryResponse {         mailxml_defs:LargeTrans...         mailxml_defs:MessageGroupID         mailxml_defs:TotalMessageCou...         mailxml_defs:MessageSerialNu...         mailxml_defs:TransmittedRecor...         mailxml_defs:TotalRecordsAcro...         mailxml_defs:LastMessage         mailxml_dd:TrackingID         mailxml_dd:SubmitterTrackingID         mailxml_dd:QueryResults         mailxml_defs:QueryError     }     NonComplianceDataWithPostageOwedReportQueryResponse "1" -- "*" mailxml_defs:LargeTrans...     NonComplianceDataWithPostageOwedReportQueryResponse "1" -- "*" mailxml_defs:MessageGroupID     NonComplianceDataWithPostageOwedReportQueryResponse "1" -- "*" mailxml_defs:TotalMessageCou...     NonComplianceDataWithPostageOwedReportQueryResponse "1" -- "*" mailxml_defs:MessageSerialNu...     NonComplianceDataWithPostageOwedReportQueryResponse "1" -- "*" mailxml_defs:TransmittedRecor...     NonComplianceDataWithPostageOwedReportQueryResponse "1" -- "*" mailxml_defs:TotalRecordsAcro...     NonComplianceDataWithPostageOwedReportQueryResponse "*" -- "1" mailxml_defs:LastMessage     NonComplianceDataWithPostageOwedReportQueryResponse "1" -- "*" mailxml_dd:TrackingID     NonComplianceDataWithPostageOwedReportQueryResponse "1" -- "*" mailxml_dd:SubmitterTrackingID     NonComplianceDataWithPostageOwedReportQueryResponse "*" -- "1" mailxml_dd:QueryResults     NonComplianceDataWithPostageOwedReportQueryResponse "*" -- "1" mailxml_defs:QueryError   </pre> <p>Response to the Request for Full Service Non Compliance Data With Postage Owed Report Query Request</p> <p>NonComplianceDataWithPostageOwedReportQueryResponse</p> <p>mailxml_defs:LargeTrans...</p> <p>mailxml_defs:MessageGroupID</p> <p>mailxml_defs:TotalMessageCou...</p> <p>mailxml_defs:MessageSerialNu...</p> <p>mailxml_defs:TransmittedRecor...</p> <p>mailxml_defs:TotalRecordsAcro...</p> <p>mailxml_defs:LastMessage</p> <p>mailxml_dd:TrackingID</p> <p>mailxml_dd:SubmitterTrackingID</p> <p>mailxml_dd:QueryResults</p> <p>mailxml_defs:QueryError</p> <p>Error issued when the query data cannot be provided.</p>
namespace	http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd
annotation	<p>documentation</p> <p>Response to the Request for Full Service Non Compliance Data With Postage Owed Report Query Request</p>

element **ScanSTCCount**

diagram	<p>The diagram illustrates the sequence of messages sent by the <b>ScanSTCCount</b> object. It starts with a synchronous message to <b>mailxml_dd:UserLicenseCode</b>, followed by two parallel regions. The first parallel region contains a synchronous message to <b>mailxml_dd:MaildatJobID</b> and a subsequent synchronous message to <b>mailxml_dd:CustomerGroupID</b>. The second parallel region contains a synchronous message to <b>mailxml_dd:MailingGroupID</b>. After these, a message is sent to <b>mailxml_dd:ConsigneeApptID</b>, followed by a synchronous message to <b>mailxml_dd:LogicalIndicator</b>. Finally, a message is sent to a third parallel region containing <b>mailxml_dd:IMcbCount</b>, <b>mailxml_dd:IMtbCount</b>, <b>mailxml_dd:IMPbCount</b>, <b>mailxml_dd:IMbCount</b>, <b>mailxml_dd:PlannedCount</b>, <b>mailxml_dd:PaidCount</b>, <b>mailxml_dd:ScannedCount</b>, and <b>mailxml_dd:STCCount</b>.</p>
namespace	<a href="http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd">http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd</a>
annotation	documentation ScanandSPMCountfor thridpartyreconciliation

element **ScanSTCReconciliationDelivery**

diagram	<pre> classDiagram     class ScanSTCReconciliationDelivery {         grp mailxml_defs:LargeTrans...         mailxml_defs:MessageGroupID         mailxml_defs:TotalMessageCou...         mailxml_defs:MessageSerialNu...         mailxml_defs:TransmittedRecor...         mailxml_defs:TotalRecordsAcro...         mailxml_defs:LastMessage     }     class SubmittingParty     class SubmittingSoftware     class DataRecipient     class eDocSenderCRID     class PushMessageID     class ScanSTCCount      ScanSTCReconciliationDelivery "1..∞" --&gt; SubmittingParty :      ScanSTCReconciliationDelivery "1..∞" --&gt; SubmittingSoftware :      ScanSTCReconciliationDelivery "1..∞" --&gt; DataRecipient :      ScanSTCReconciliationDelivery "1..∞" --&gt; eDocSenderCRID :      ScanSTCReconciliationDelivery "1..∞" --&gt; PushMessageID :      ScanSTCReconciliationDelivery "1..∞" --&gt; ScanSTCCount :    </pre> <p>Response to the Query request for full service container visibility information.</p> <p>Scan and SPM Count for third party reconciliation</p>
namespace	<a href="http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd">http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd</a>
annotation	<p>documentation</p> <p>Response to the Query request for full service container visibility information.</p>

## element ScanSTCReconciliationNotification

diagram	<pre> graph LR     A[ScanSTCReconciliationNotificati...]     A --- B(( ))     B --- C1[mailxml_dd:SubmittingParty]     B --- C2[mailxml_dd:SubmittingSoftware]     B --- C3[mailxml_dd:PushMessageID]     C3 --- C4[mailxml_dd:UserLicenseCode]     C3 --- C5[mailxml_dd:MaildatJobID]     C3 --- C6[mailxml_dd:CustomerGroupID]     C3 --- C7[mailxml_dd:MailingGroupID]     C4 --- C8[mailxml_dd:FSNonFSAvailability...]     C4 --- C9[mailxml_dd:NonFullServiceAvail...]     C5 --- C10[mailxml_dd:AvailableRecordCou...]     C5 --- C11[mailxml_dd:CountType]     C6 --- C12[mailxml_dd:NotificationDate]   </pre> <p>Notification sent by USPS that full service container visibility information is ready for pickup.</p>
namespace	<a href="http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd">http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd</a>
annotation	<p>documentation</p> <p>Notification sent by USPS that full service container visibility information is ready for pickup.</p>

## element ScanSTCReconciliationQueryRequest

diagram	<pre> graph LR     A[ScanSTCReconciliationQueryRe...]     A --- B(( ))     B --- C1[mailxml_dd:SubmittingParty]     B --- C2[mailxml_dd:SubmittingSoftware]     B --- C3[mailxml_dd:SubmitterTrackingID]     C3 --- C4[mailxml_dd:UserLicenseCode]     C3 --- C5[mailxml_dd:MaildatJobID]     C3 --- C6[mailxml_dd:CustomerGroupID]     C3 --- C7[mailxml_dd:MailingGroupID]     C4 --- C8[mailxml_dd:ConsigneeApptID]     C4 --- C9[mailxml_dd:retrieveDataBy]   </pre> <p>Query request for full service container visibility information.</p>
namespace	<a href="http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd">http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd</a>
annotation	<p>documentation</p> <p>Query request for full service container visibility information.</p>

**element ScanSTCReconciliationQueryResponse**

diagram	<pre> graph LR     A[ScanSTCReconciliationQueryResponse] --&gt; B[...]     B --&gt; C[attributes]     C --&gt; D[grp mailxml_defs:LargeTrans...]     C --&gt; E[mailxml_defs:MessageGroupID]     C --&gt; F[mailxml_defs:TotalMessageCou...]     C --&gt; G[mailxml_defs:MessageSerialNu...]     C --&gt; H[mailxml_defs:TransmittedRecor...]     C --&gt; I[mailxml_defs:TotalRecordsAcro...]     C --&gt; J[mailxml_defs:LastMessage]     J -.-&gt; K[...]     K --&gt; L[mailxml_dd:TrackingID]     L -.-&gt; M[mailxml_dd:SubmitterTrackingID]     M -.-&gt; N[mailxml_dd:QueryResults]     M -.-&gt; O[mailxml_defs:QueryError]     </pre> <p>The diagram illustrates the structure of the <code>ScanSTCReconciliationQueryResponse</code> element. It starts with a main element box labeled <code>ScanSTCReconciliationQueryRe...</code>. An arrow points from this box to a dashed-line box labeled <code>[...]</code>, which then points to an <code>attributes</code> box. Inside the <code>attributes</code> box, there is a group box labeled <code>grp mailxml_defs:LargeTrans...</code> and several other boxes: <code>mailxml_defs:MessageGroupID</code>, <code>mailxml_defs:TotalMessageCou...</code>, <code>mailxml_defs:MessageSerialNu...</code>, <code>mailxml_defs:TransmittedRecor...</code>, <code>mailxml_defs:TotalRecordsAcro...</code>, and <code>mailxml_defs:LastMessage</code>. The <code>mailxml_defs:LastMessage</code> box is enclosed in a dashed line. Below the <code>attributes</code> box, another dashed-line box contains two items: <code>mailxml_dd:TrackingID</code> and <code>mailxml_dd:SubmitterTrackingID</code>. Arrows point from these items to two more boxes: <code>mailxml_dd:QueryResults</code> and <code>mailxml_defs:QueryError</code>. The <code>mailxml_defs:QueryError</code> box has a note below it: "Error issued when the query data cannot be provided.".   </p>
namespace	<a href="http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd">http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd</a>
annotation	documentation Response to the Query request for for full service container visibility information.

**element StartTheClockBEMUBlock**

diagram	<pre> graph LR     A[StartTheClockBEMUBlock] --&gt; B[...]     B --&gt; C[mailxml_dd:StartTheClockBEMU]     C --&gt; D[1..∞]     </pre> <p>The diagram illustrates the structure of the <code>StartTheClockBEMUBlock</code> element. It starts with a main element box labeled <code>StartTheClockBEMUBlock</code>. An arrow points from this box to a dashed-line box labeled <code>[...]</code>, which then points to a box labeled <code>mailxml_dd:StartTheClockBEMU</code>. Below this box is a note: "1..∞".   </p>
namespace	<a href="http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd">http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd</a>

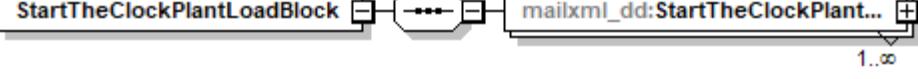
element **StartTheClockDropShipOrOrigin**

diagram



namespace	<a href="http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd">http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd</a>
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element **StartTheClockPlantLoadBlock**

diagram	
namespace	<a href="http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd">http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd</a>

complexType **addressCorrectionAddressType**

diagram	
namespace	<a href="http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd">http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd</a>

**complexType byForConflictType**

diagram	
namespace	<a href="http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd">http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd</a>

**complexType clockStartedType**

diagram	
namespace	<a href="http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd">http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd</a>

**complexType dqrContainerInfoType**

diagram	<p>The diagram illustrates the structure of the <b>dqrContainerInfoType</b> complex type. It features a central class <b>dqrContainerInfoType</b> with several attributes and associations. The attributes include: <b>mailxml_dd:ContainerID</b>, <b>mailxml_dd:SiblingRefContainerID</b>, <b>mailxml_dd:ParentContainerID</b>, <b>mailxml_dd:ProcessingCategory</b>, <b>mailxml_dd:MailClass</b>, <b>mailxml_dd:USPSFacilityLocaleK...</b>, <b>mailxml_dd:City</b>, <b>mailxml_dd:State</b>, <b>mailxml_dd:MailingDate</b>, <b>mailxml_dd:ContainerType</b>, <b>mailxml_dd:IMcb</b>, <b>mailxml_dd:IMtb</b>, <b>mailxml_dd:CSAID</b>, <b>mailxml_dd:ConsigneeAppTID</b>, <b>mailxml_dd:FSNonFSAvailability...</b>, <b>mailxml_dd:FullServiceIndicator</b>, and <b>mailxml_dd:VerificationError</b>. There are also associations with <b>PreparerCRID</b> (multiplicity 0..∞), <b>OwnerCRID</b> (multiplicity 0..∞), <b>PieceInfo</b> (multiplicity 0..∞), and <b>PieceRangeInfo</b> (multiplicity 0..∞).</p>
namespace	<a href="http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd">http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd</a>

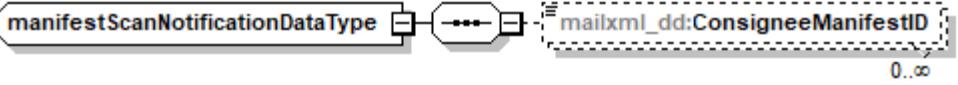
**complexType foreignAddressType**

diagram	<p>The diagram illustrates the structure of the <code>foreignAddressType</code> complex type. It features a central horizontal sequence bar with a compartment containing the type name <code>foreignAddressType</code>. To the right of this bar is a dashed rectangular boundary. Inside this boundary, seven elements are arranged vertically: <code>mailxml_dd:AddressLine1</code>, <code>mailxml_dd:AddressLine2</code>, <code>mailxml_dd:AddressLine3</code>, <code>mailxml_dd:City</code>, <code>mailxml_dd:CountryCode</code>, <code>mailxml_dd:Province</code>, and <code>mailxml_dd:PostalorZipCode</code>. Below these elements is another dashed rectangular boundary containing the element <code>mailxml_dd:CountryName</code>.</p>
namespace	<a href="http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd">http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd</a>

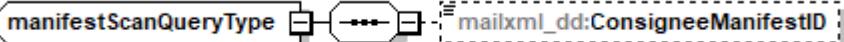
complexType **manifestScanEventDetailType**

diagram	<p>The diagram illustrates the structure of the <b>manifestScanEventDetailType</b> complex type. It features a central node labeled <b>manifestScanEventDetailType</b> connected via a dashed line to a sequence of nodes: <b>EventCode</b>, <b>EventName</b>, <b>EventDate</b>, <b>EventTime</b>, <b>MailerOwnerID</b>, <b>CustomerReference</b>, <b>DestinationCountry</b>, <b>RecipientName</b>, <b>OriginalLabel</b>, <b>UnitofMeasureCode</b>, <b>Weight</b>, <b>GuaranteedDelivery</b>, <b>GuaranteedDelivery</b>, and <b>LogisticsManager</b>. Additionally, there are several other nodes listed vertically on the right side of the diagram, including <b>USPSEventExtractFil...</b>, <b>IMpb</b>, <b>ElectronicFileNumber</b>, <b>MailerID</b>, <b>MailerName</b>, <b>DestinationZipCode</b>, <b>DestinationZipPlusF...</b>, <b>ScanningFacilityZip</b>, <b>ScanningFacilityName</b>, <b>EventCode</b>, <b>EventName</b>, <b>EventDate</b>, <b>EventTime</b>, <b>MailerOwnerID</b>, <b>CustomerReference</b>, <b>DestinationCountry</b>, <b>RecipientName</b>, <b>OriginalLabel</b>, <b>UnitofMeasureCode</b>, <b>Weight</b>, <b>GuaranteedDelivery</b>, <b>GuaranteedDelivery</b>, and <b>LogisticsManager</b>.</p>
namespace	<a href="http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd">http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd</a>

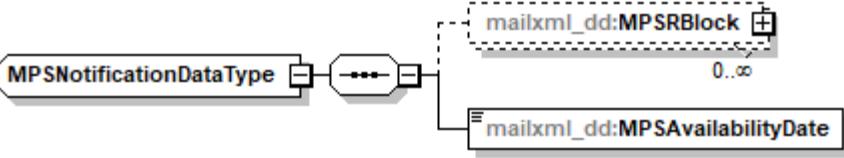
**complexType manifestScanNotificationDataType**

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

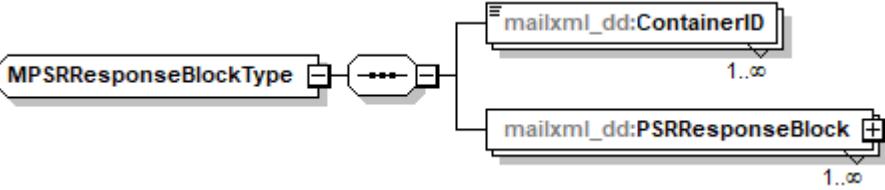
**complexType manifestScanQueryType**

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

**complexType MPSNotificationDataType**

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

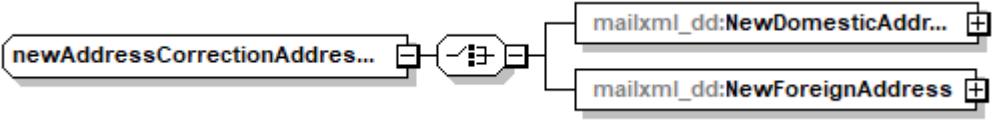
**complexType MPSRResponseBlockType**

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

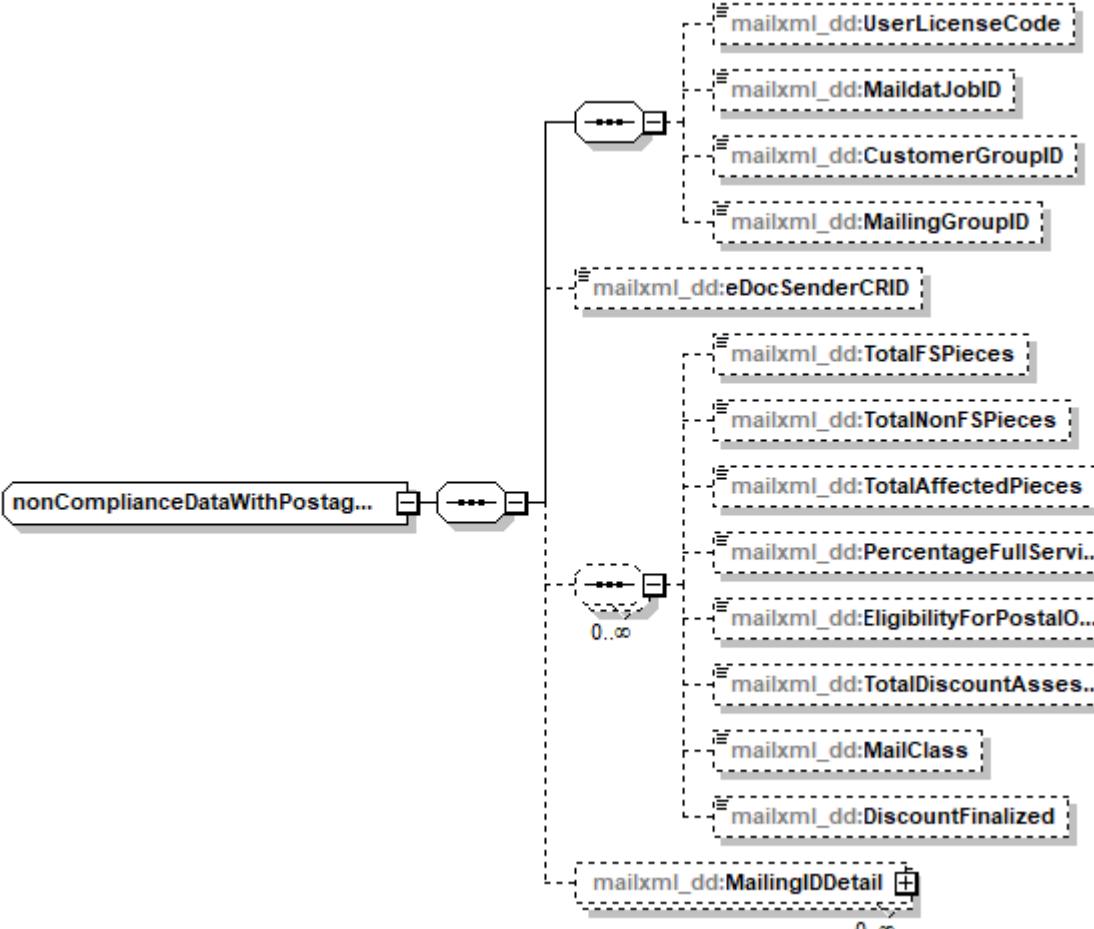
complexType MPSVisScanQueryType

diagram	<p>The diagram illustrates the structure of the MPSVisScanQueryType complex type. It starts with a base class 'MPSVisScanQueryType' at the bottom left. An inheritance arrow points from 'MPSVisScanQueryType' to a larger class box on the right. This larger class box contains several properties:</p> <ul style="list-style-type: none"><li>A sequence of four properties: 'mailxml_dd:UserLicenseCode', 'mailxml_dd:MaildatJobID', 'mailxml_dd:CustomerGroupID', and 'mailxml_dd:MailingGroupID'. These are grouped together in a dashed box.</li><li>'mailxml_dd:ResultOptions' with multiplicity '0..∞'. This property has two associated properties: 'mailxml_dd:RangeLowerDate' and 'mailxml_dd:RangeUpperDate'.</li><li>'mailxml_dd:FacilityLocaleKey'</li><li>'mailxml_dd:EventType' with multiplicity '0..∞'. This property has two associated properties: 'mailxml_dd:MID6OnThePiece' and 'mailxml_dd:MID9OnThePiece'.</li><li>'mailxml_dd:BundleScanType' with multiplicity '0..∞'. This property has three associated properties: 'mailxml_dd:IMcb' (multiplicity '1..∞'), 'mailxml_dd:IMtb' (multiplicity '1..∞'), and 'mailxml_dd:IMB' (multiplicity '1..∞').</li><li>'mailxml_dd:BundleID' with multiplicity '0..∞'.</li><li>'mailxml_dd:FieldIncludedScanR...' with multiplicity '0..∞'.</li></ul>
namespace	<a href="http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd">http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd</a>

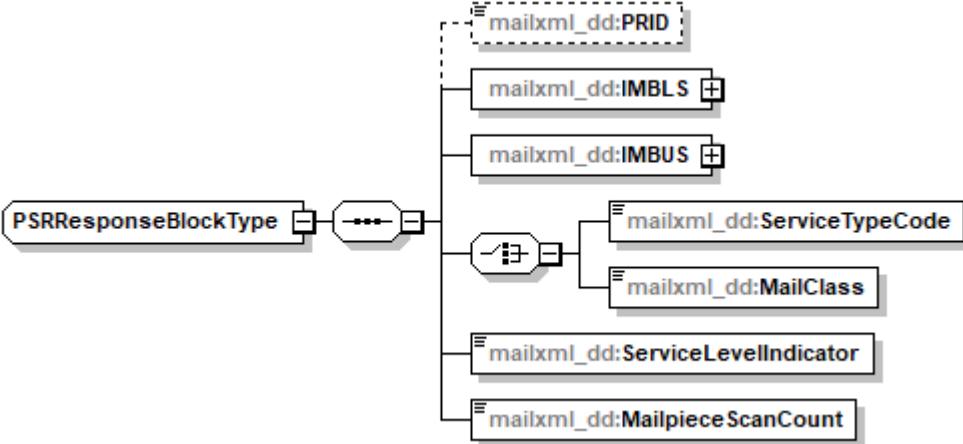
**complexType newAddressCorrectionAddressType**

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

**complexType nonComplianceDataWithPostageOwedReportType**

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

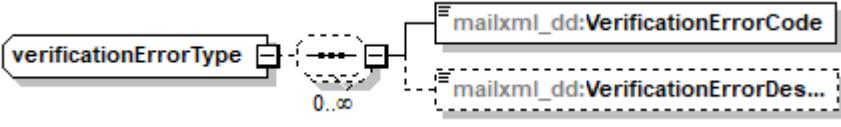
**complexType PSRResponseBlockType**

diagram	 <p>The diagram illustrates the structure of the PSRResponseBlockType complex type. It begins with a blue-bordered box labeled "PSRResponseBlockType". A dashed line connects it to a sequence of three gray-bordered boxes, each containing a black square with a horizontal line. From the third box, a solid line leads to a vertical stack of five gray-bordered boxes, each containing a black square with an equals sign. These five boxes represent the child elements of PSRResponseBlockType: PRID, IMBLS, IMBUS, ServiceTypeCode, and MailClass. Additionally, there are two more gray-bordered boxes at the bottom: ServiceLevelIndicator and MailpieceScanCount.</p>
namespace	<a href="http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd">http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd</a>

**complexType unManifestedScanEventDetailType**

diagram	<p>The diagram illustrates the structure of the <code>unManifestedScanEventDetailType</code> complex type. It features a central class node labeled <code>unManifestedScanEventDetailTy...</code> connected via a multiplicity "*" to a sequence of attributes. The attributes are grouped into several dashed boxes, likely representing complex types or lists. The attributes include: - mailxml_dd:USPSEventExtractFil... - mailxml_dd:IMpb - mailxml_dd:ElectronicFileNumber - mailxml_dd:MailerID - mailxml_dd:MailerName - mailxml_dd:DestinationZipCode - mailxml_dd:DestinationZipPlusF... - mailxml_dd:ScanningFacilityZip - mailxml_dd:ScanningFacilityName - mailxml_dd:EventCode - mailxml_dd:EventName - mailxml_dd:EventDate - mailxml_dd:EventTime - mailxml_dd:MailerOwnerID - mailxml_dd:CustomerReferenc... - mailxml_dd:DestinationCountry... - mailxml_dd:RecipientName - mailxml_dd:OriginalLabel - mailxml_dd:UnitofMeasureCode - mailxml_dd:Weight - mailxml_dd:GuaranteedDelivery... - mailxml_dd:GuaranteedDelivery... - mailxml_dd:LogisticsManager... The dashed boxes group the following attributes: - <code>mailxml_dd:MailerID</code>, <code>mailxml_dd:MailerName</code>, <code>mailxml_dd:DestinationZipCode</code>, <code>mailxml_dd:DestinationZipPlusF...</code>, <code>mailxml_dd:ScanningFacilityZip</code>, <code>mailxml_dd:ScanningFacilityName</code>, <code>mailxml_dd:MailerOwnerID</code>, <code>mailxml_dd:CustomerReferenc...</code>, <code>mailxml_dd:DestinationCountry...</code>, <code>mailxml_dd:OriginalLabel</code>, <code>mailxml_dd:UnitofMeasureCode</code>, <code>mailxml_dd:Weight</code>, <code>mailxml_dd:GuaranteedDelivery...</code>, and <code>mailxml_dd:GuaranteedDelivery...</code> are grouped in one box. - <code>mailxml_dd:LogisticsManager...</code> is grouped in another box.</p>
namespace	<a href="http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd">http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd</a>

**complexType verificationErrorHandler**

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

**simpleType addressCorrectionMoveType**

namespace	http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd
type	restriction of <b>xs:string</b>

**simpleType addressTypeType**

namespace	http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd
type	restriction of <b>xs:string</b>

**simpleType containerScanStateType**

namespace	http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd
type	restriction of <b>xs:string</b>
annotation	documentation Scan data for Container Scan States

**simpleType deliverabilityCodeType**

namespace	http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd
type	restriction of <b>xs:string</b>

**simpleType eDocTypeType**

namespace	http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd
type	restriction of <b>xs:string</b>

**simpleType primarySecondaryIndicatorType**

namespace	http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd
type	restriction of <b>xs:string</b>

**simpleType verificationErrorHandlerType**

namespace	http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd
type	restriction of <b>xs:string</b>

**simpleType verificationWarningTypeType**

namespace	http://delivery-tech.org/Specs/mailxml25.4/mailxml_dd
type	restriction of <b>xs:string</b>

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