Mail.XML Version 26.3

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.

About Mail.XML™

Mail.XML™ is bringing a paradigm change to the industry by increasing business function specific B2B (Business to Business) communication within the industry that supports automation and in the end enables cost avoidance and higher profits through improved competence and effectiveness of communication. Mail.XML is designed to increase efficiency and lower costs by removing many manual data entry processes and enabling quick near real time communication between business partners. Mail.XML currently supports container-based scheduling, pick up and drop off business processes, as well as identifying different business entities responsible for performing different services such as quality of mailing, address correction, and delivery confirmation on a mailing. The core focus of Mail.XML is communication between industry members and from industry to the final mail processing and delivery organization that delivers the mail to the end consumer, e.g., USPS. In the next few versions of Mail.XML the focus moves across mailing supply chain channels, and includes advanced functions such as such as payment; automated verification; enabling first, second, and third-party communication and incorporating presort planning, printing, and distribution processes.

What's New in Mail.XML Version 26.3?

With this release, the Mail.XML Messaging Protocol moves to Version 26.3. This release supports structure changes required by mailing industry and Postal Service.
Changes supported by Mail.XML 26.3 include:

- 2619 – Proposal to support the new promotions and add-ons for 2025 Mailing Promotions.
- 2622 - Proposal to support the types of Election Mail (Election Mail Official Ballot and Election Mail Non-Ballot Materials)
- 2623 - Proposal to support Protected Origin Mixed ADC pallet preparation level for Periodicals flats.

About Mail.XML Schema Modularization

Today Mail.XML messages are grouped into 8 message types.

- Transportation Messages (TM)
- Mailing Messages (MM)
- Data Distribution Messages (DD)
- Dynamic Payment Template Messages
- Identification Messages (ID)
- Supply Chain Messages (SC)
- Informed Visibility (IV)
- System Messages
- Base: Shared simple types
- Definitions: Shared complex types and elements

The simple types shared across 2 or more modules are found in the Base schema. Likewise, the shared definitions module contains complex type definitions and elements that are shared across 2 or more modules.

Mail.XML Module Versioning Rules

The following versioning rules will be followed:

The Mail.XML wrapper schema**.xsd) will always be given the next higher version number (or Errata designation) when any update is made to base, defs or any module. The name of the .xsd file will indicate the new version and the new version number will be used in the namespace and target declarations:
xmlns:mailxml="http://delivery-tech.org/Specs/mailxml26.3/mailxml"
targetNamespace="http://delivery-tech.org/Specs/mailxml26.3/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/mailxml26.3A/mailxml" then at least one of the XSDs is at same version such as filename ='Mail.XML_26.3A.xsd' <- Errata A

- If the wrapper version is labeled as xmlns:mailxml="http://deliverytech.org/Specs/mailxml26.3B/mailxml" then at least one of the XSDs is at same version such as filename ='Mail.XML_26.3B.xsd' <- Errata B

- If the wrapper version is labeled as xmlns:mailxml="http://deliverytech.

org/Specs/mailxml26.3/mailxml" then at least one of the XSDs is at same version such as filename ='Mail.XML_26.3.xsd' <- Major Version

Mail.XML 26.3 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™ 26.3 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 26.3. Updates in this Specification are NOT backwardly compatible with previous versions. Other documents in the specification set include:

- Mail.XML™ 26.3: Transportation Messaging Specification documents all transportation messages
- Mail.XML™ 26.3: Mailing Messaging Specification documents all mailing messages
- Mail.XML™ 26.3: Informed Visibility Specification documents all informed visibility messages
- Mail.XML™ 26.3: Data Distribution Messaging Specification documents all data distribution messages
- Mail.XML™ 26.3: Identification Messaging Specification documents all identification messages
- Mail.XML™ 26.3: Supply Chain Messaging Specification documents all supply chain messages
- Mail.XML™ 26.3: System Messaging Specification documents all systems and fault messages
- Mail.XML™ 26.3: Simple Types Specification documents all simple types used across Mail.XML
- messages
- Mail.XML™ 26.3: Common Definitions Specification documents all shared elements and complex

- types.
- Mail.XML™ 26.3: Schemas contains the .XSDs that make up the Mail.XML Messaging Specification

Table of Contents

Schema mailxml_dd_26.3.xsd

schema location: **..\XSDs\mailxml_dd_26.3.xsd**
attributeFormDefault: **qualified**
elementFormDefault: **qualified**
targetNamespace: **http://delivery-tech.org/Specs/mailxml26.3/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

Complex types

addressCorrectionAddressType
byForConflictType
clockStartedType
dqrContainerInfoType
foreignAddressType
manifestScanEventDetailType
manifestScanNotificationDataType
manifestScanQueryType
MPSNotificationDataType
MPSRResponseBlockType
MPSVisScanQueryType
newAddressCorrectionAddressType
nonComplianceDataWithPostageOwedReportType
PSRResponseBlockType
unManifestedScanEventDetailType
verificationErrorType

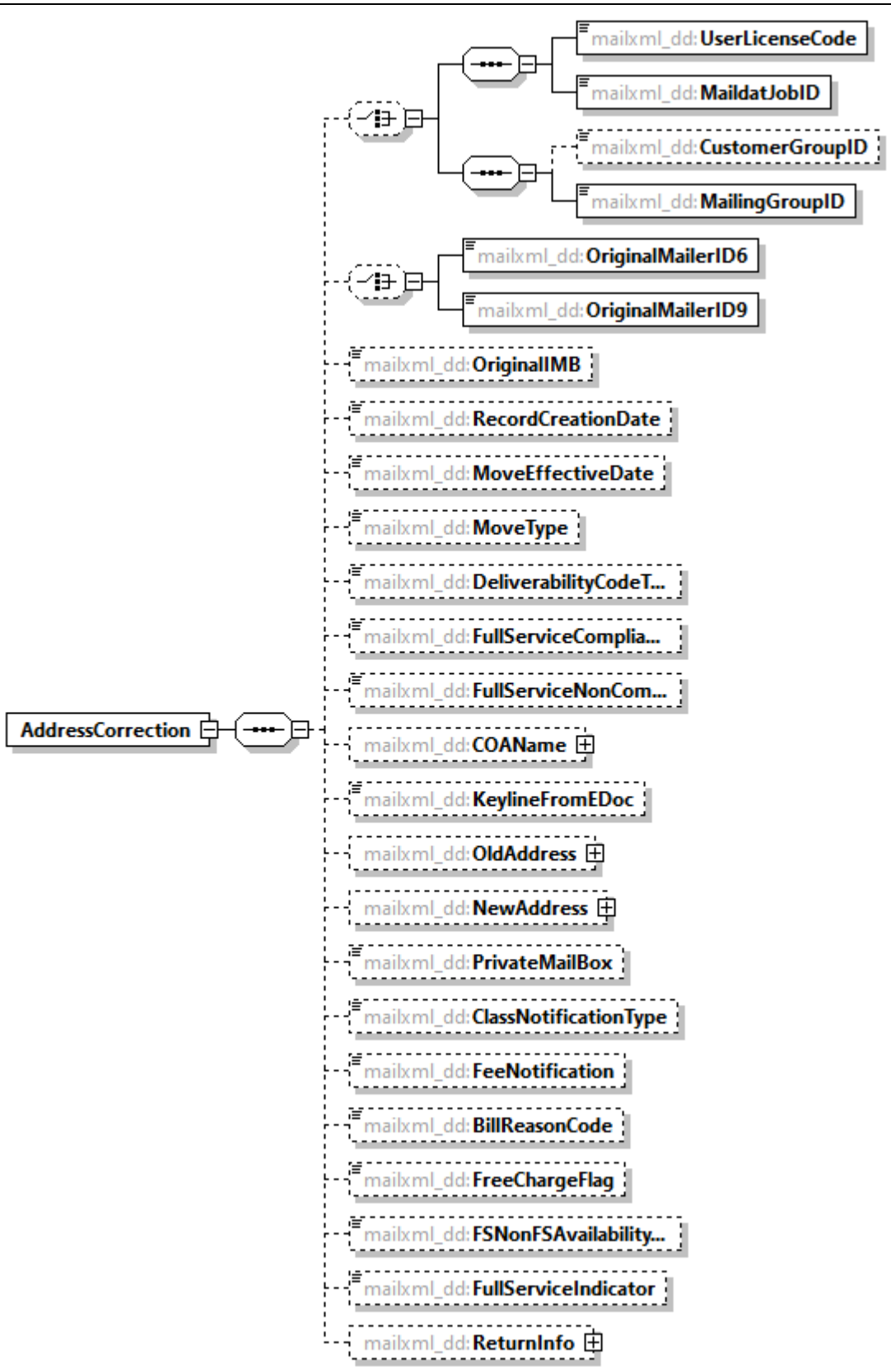
Simple types

addressCorrectionMoveType
addressTypeType
containerScanStateType
deliverabilityCodeType
eDocTypeType
primarySecondaryIndicatorType
verificationErrorTypeType
verificationWarningTypeType

ScanSTCCount
ScanSTCReconciliationDelivery
ScanSTCReconciliationNotification
ScanSTCReconciliationQueryRequest
ScanSTCReconciliationQueryResponse
StartTheClockBEMUBlock
StartTheClockDropShipOrOrigin
StartTheClockPlantLoadBlock

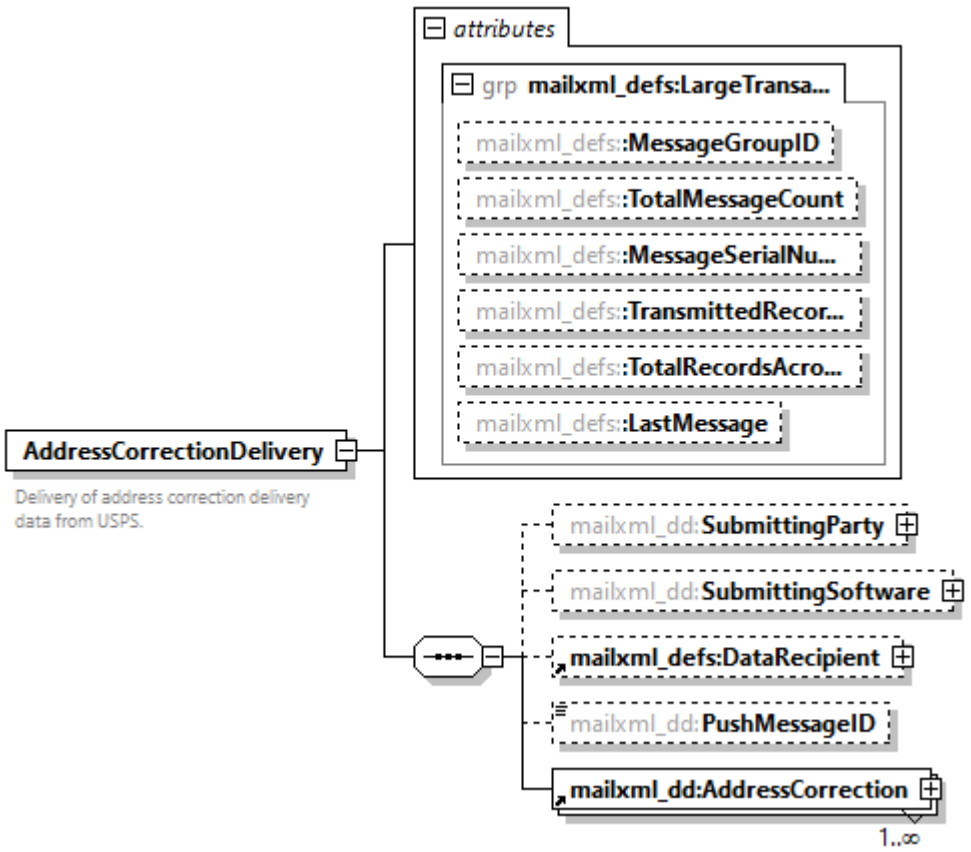
element **AddressCorrection**

diagram

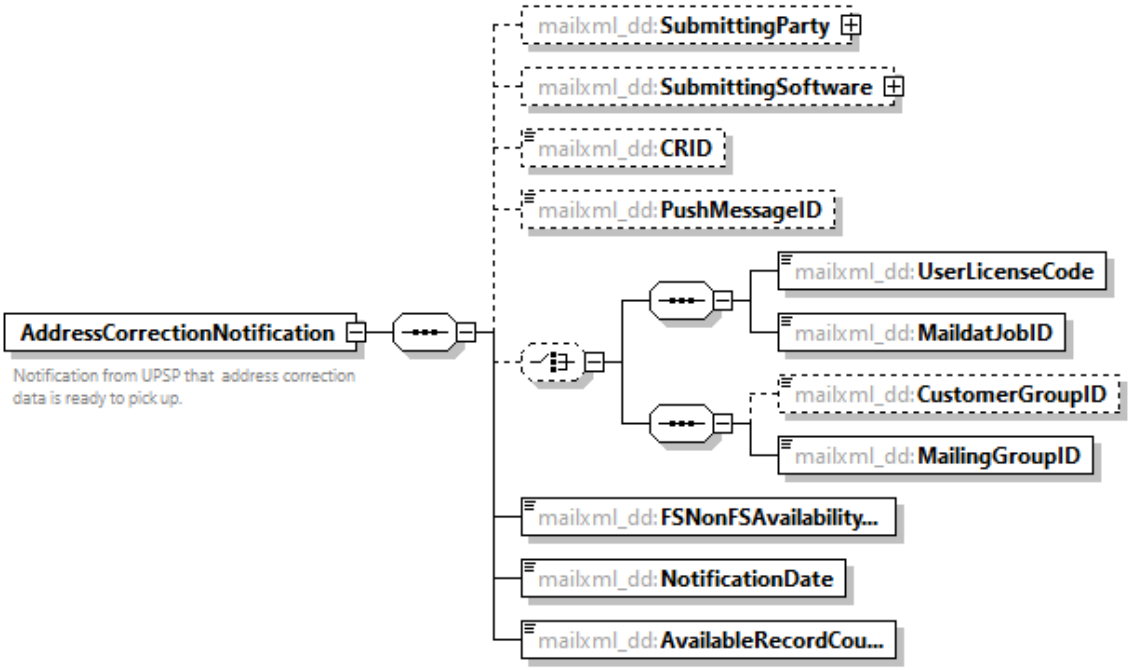


namespace	http://delivery-tech.org/Specs/mailxml26.3/mailxml_dd

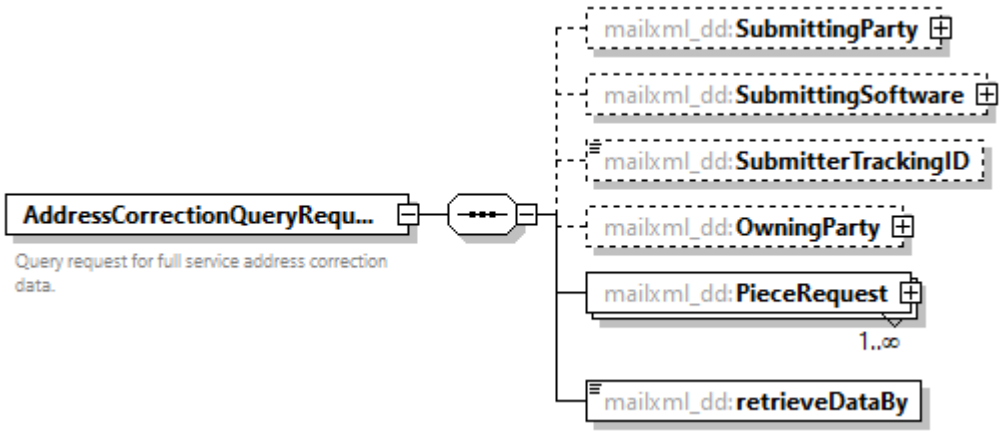
element **AddressCorrectionDelivery**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml26.3/mailxml_dd
annotation	documentation Delivery of address correction delivery data from USPS.

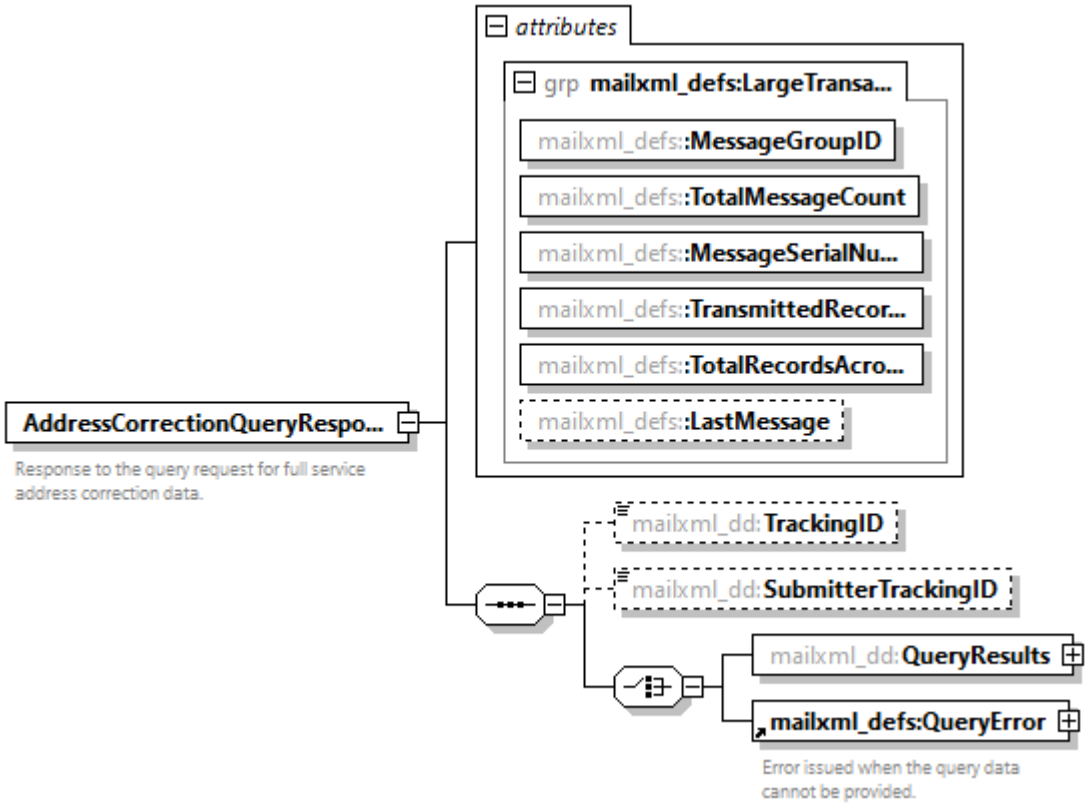
element **AddressCorrectionNotification**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml26.3/mailxml_dd
annotation	documentation Notification from UPSP that address correction data is ready to pick up.

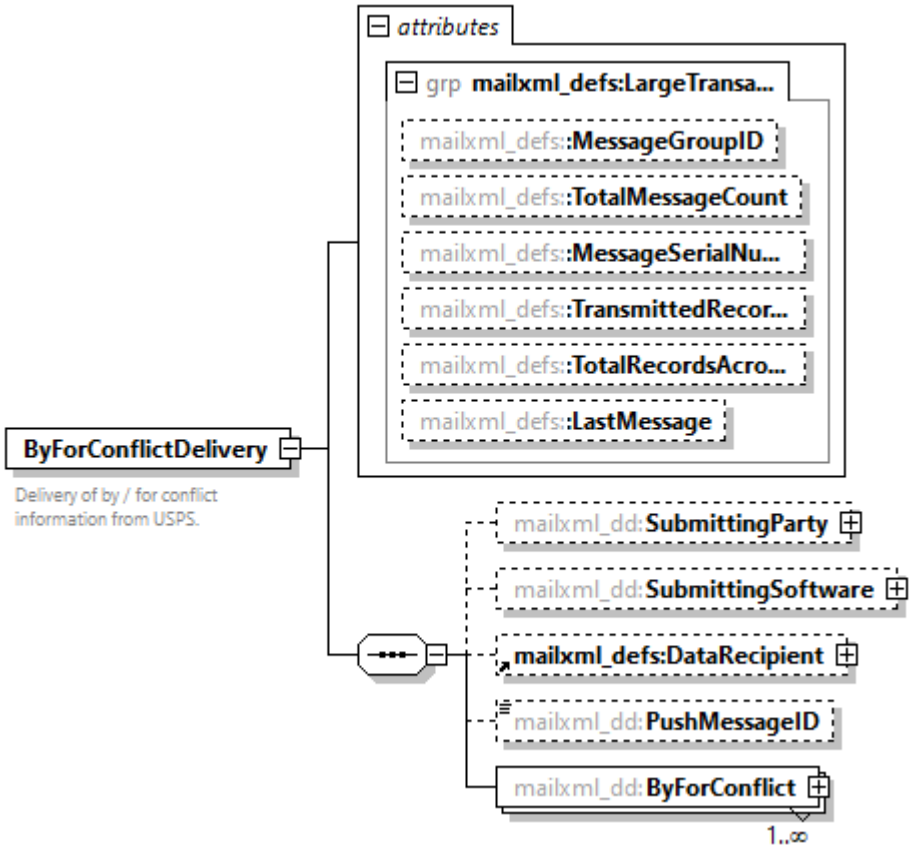
element **AddressCorrectionQueryRequest**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml26.3/mailxml_dd
annotation	documentation Query request for full service address correction data.

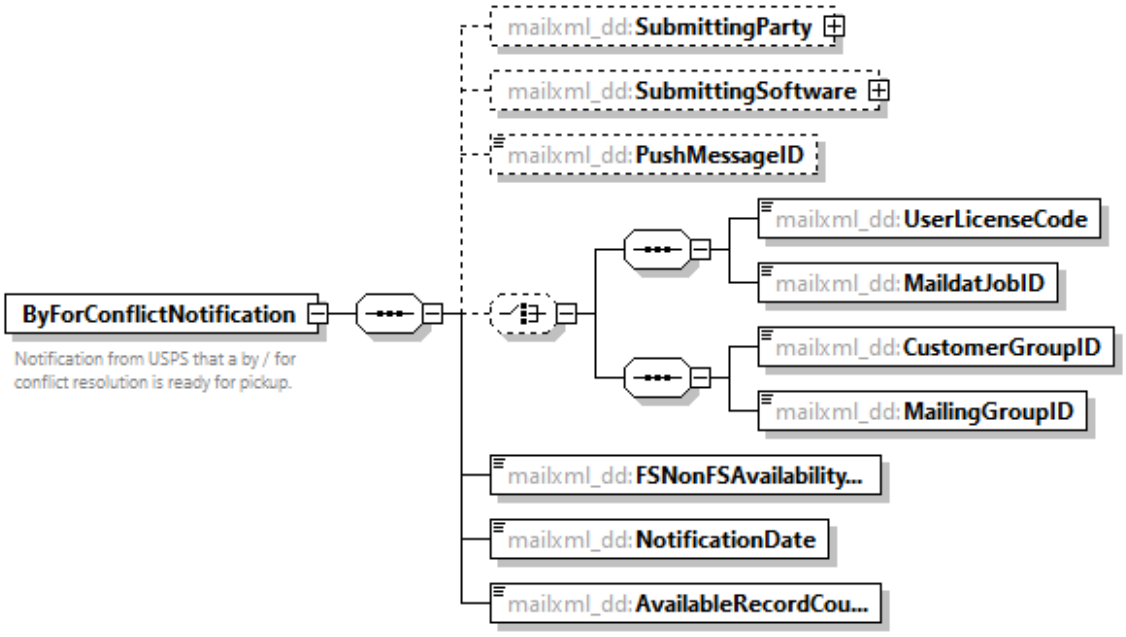
element **AddressCorrectionQueryResponse**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml26.3/mailxml_dd
annotation	documentation Response to the query request for full service address correction data.

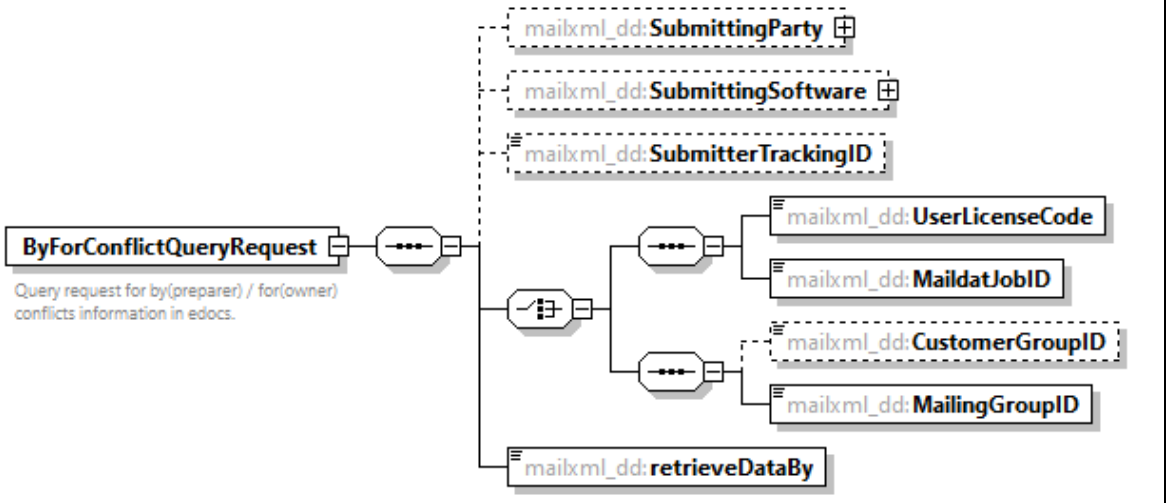
element **ByForConflictDelivery**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml26.3/mailxml_dd
annotation	documentation Delivery of by / for conflict information from USPS.

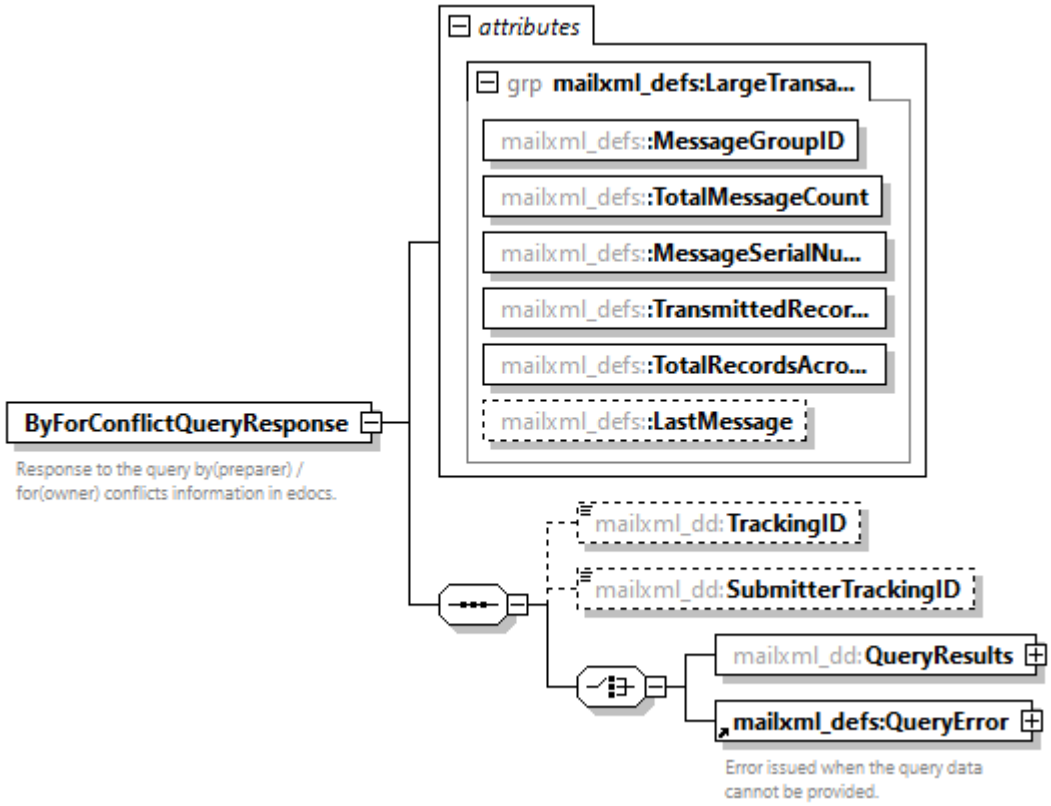
element **ByForConflictNotification**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml26.3/mailxml_dd
annotation	documentation Notification from USPS that a by / for conflict resolution is ready for pickup.

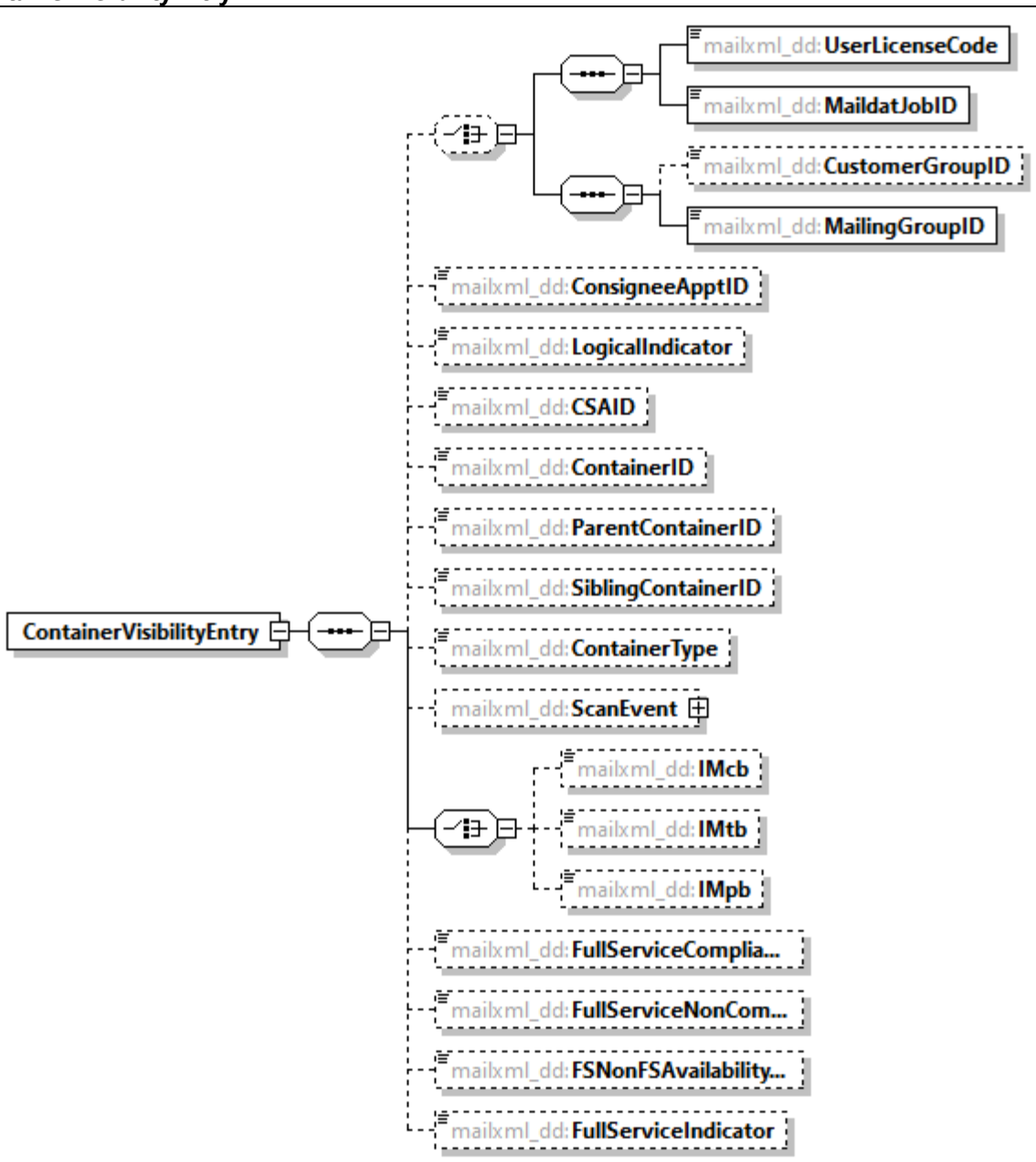
element **ByForConflictQueryRequest**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml26.3/mailxml_dd
annotation	documentation Query request for by(preparer) / for(owner) conflicts information in edocs.

element **ByForConflictQueryResponse**

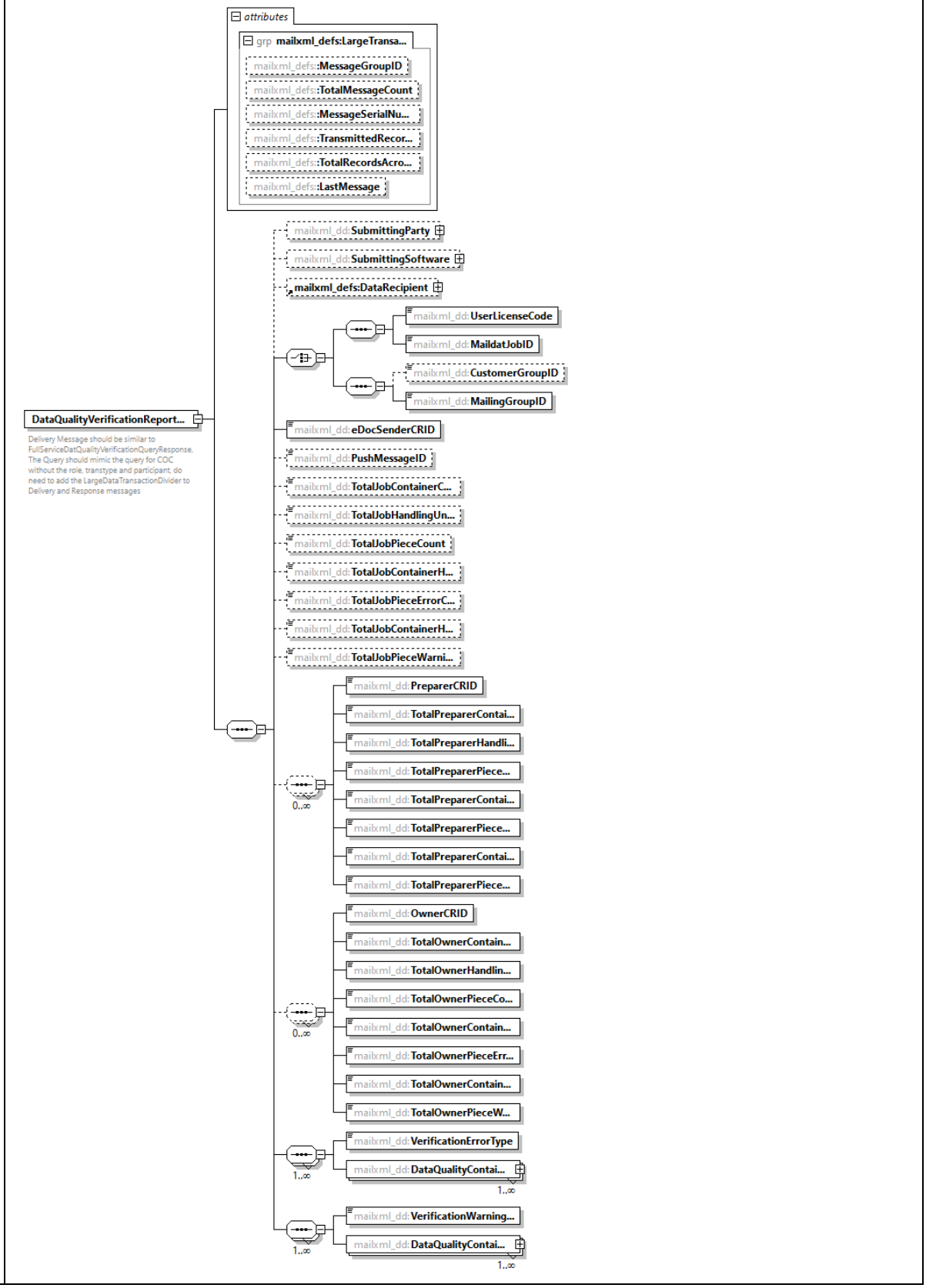
diagram	
namespace	http://delivery-tech.org/Specs/mailxml26.3/mailxml_dd
annotation	documentation Response to the query by(preparer) / for(owner) conflicts information in edocs.

element **ContainerVisibilityEntry**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml26.3/mailxml_dd

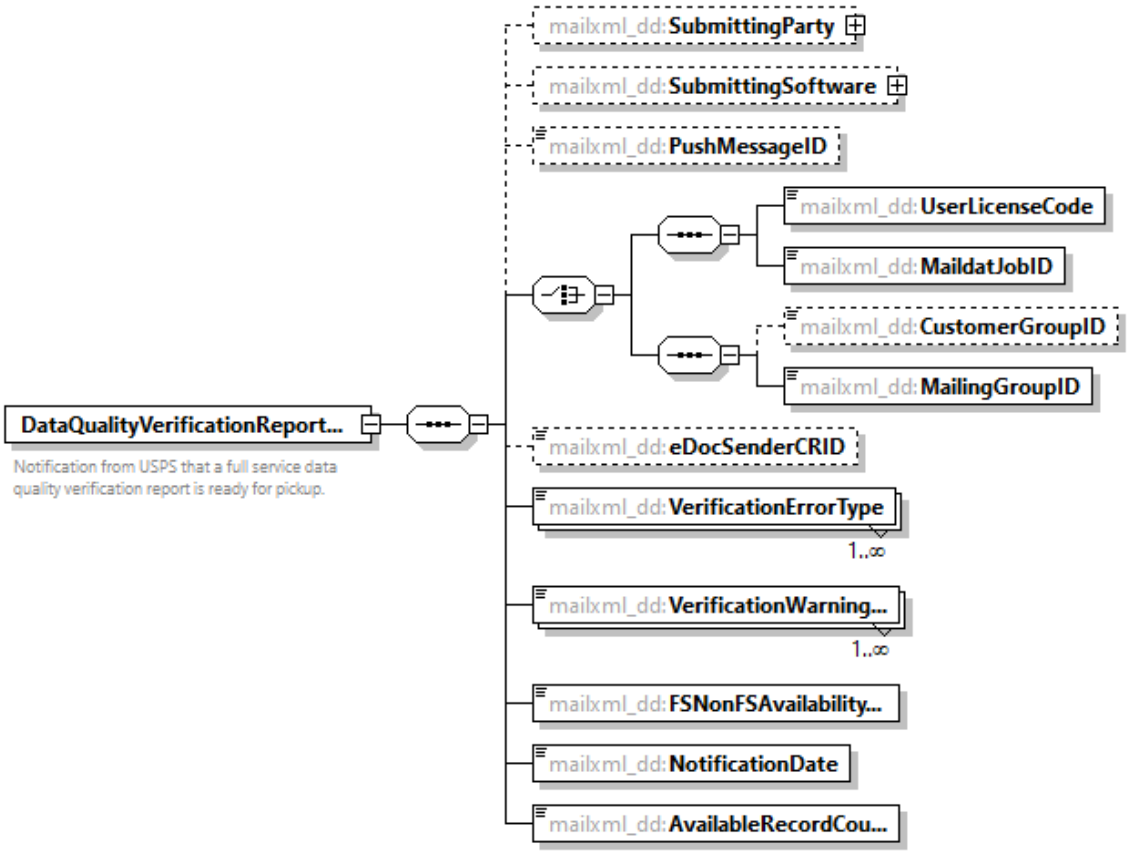
element **DataQualityVerificationReportDelivery**

diagram

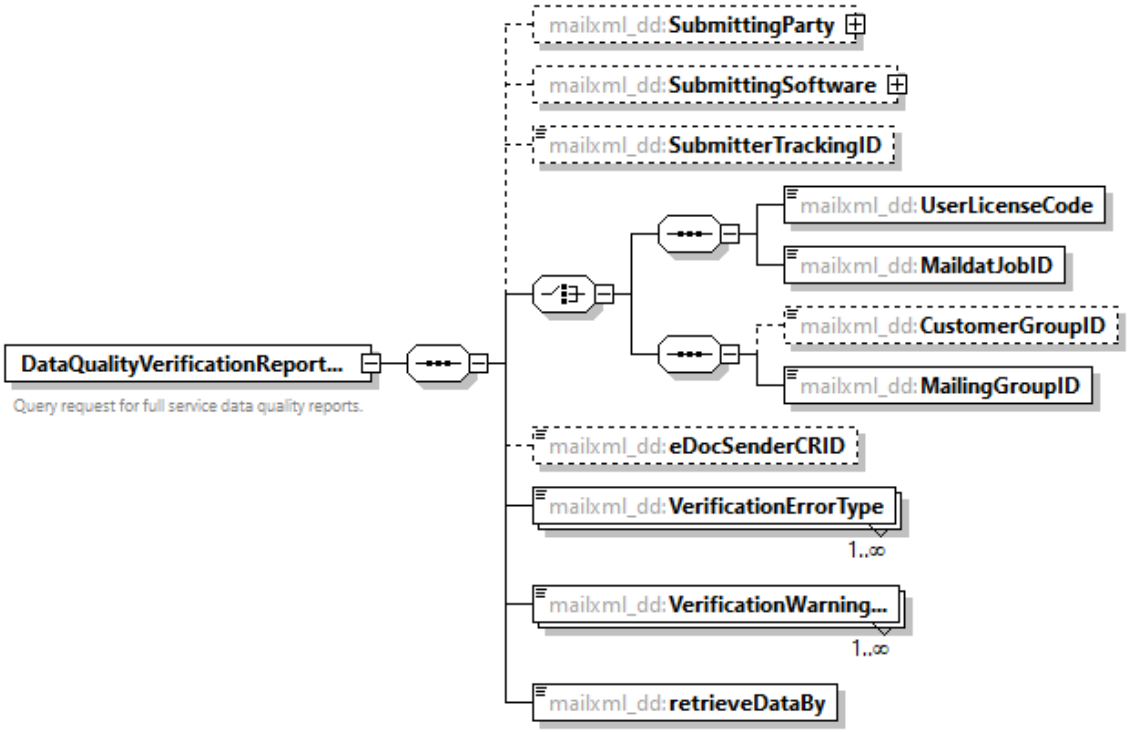


namespace	http://delivery-tech.org/Specs/mailxml26.3/mailxml_dd
annotation	documentation Delivery Message should be similar to FullServiceDatQualityVerificationQueryResponse, The Query should mimic the query for COC without the role, transtype and participant, do need to add the LargeDataTransactionDivider to Delivery and Response messages

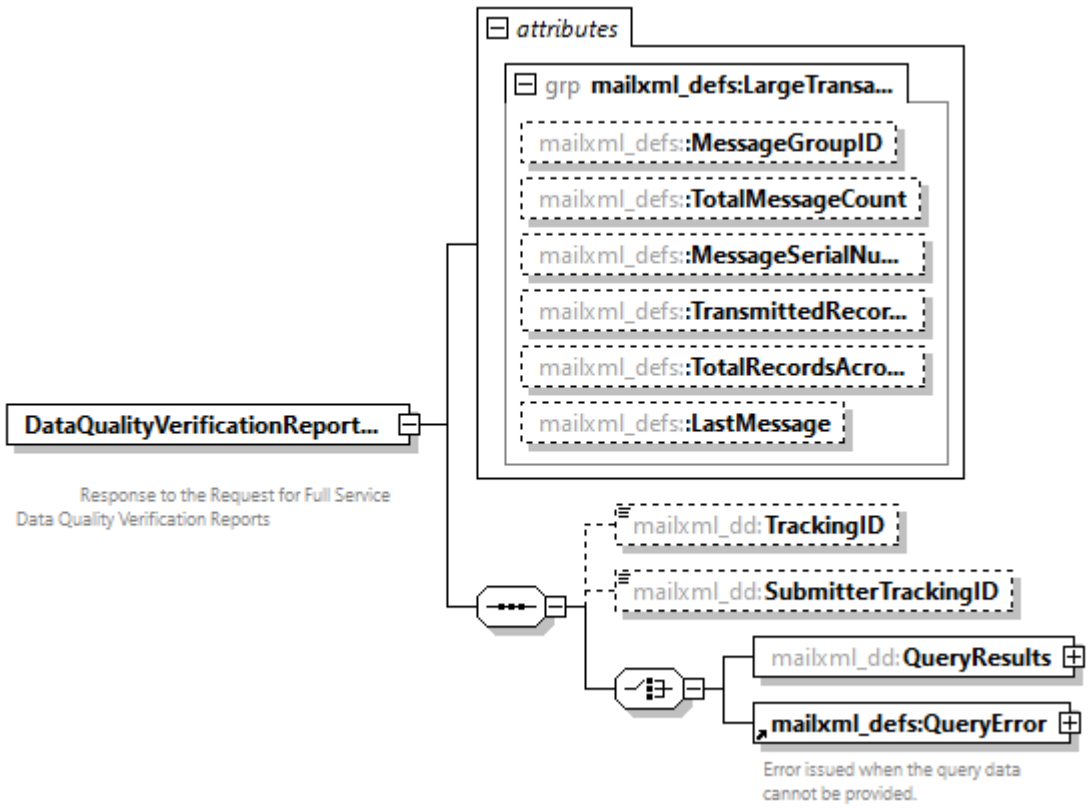
element **DataQualityVerificationReportNotification**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml26.3/mailxml_dd
annotation	documentation Notification from USPS that a full service data quality verification report is ready for pickup.

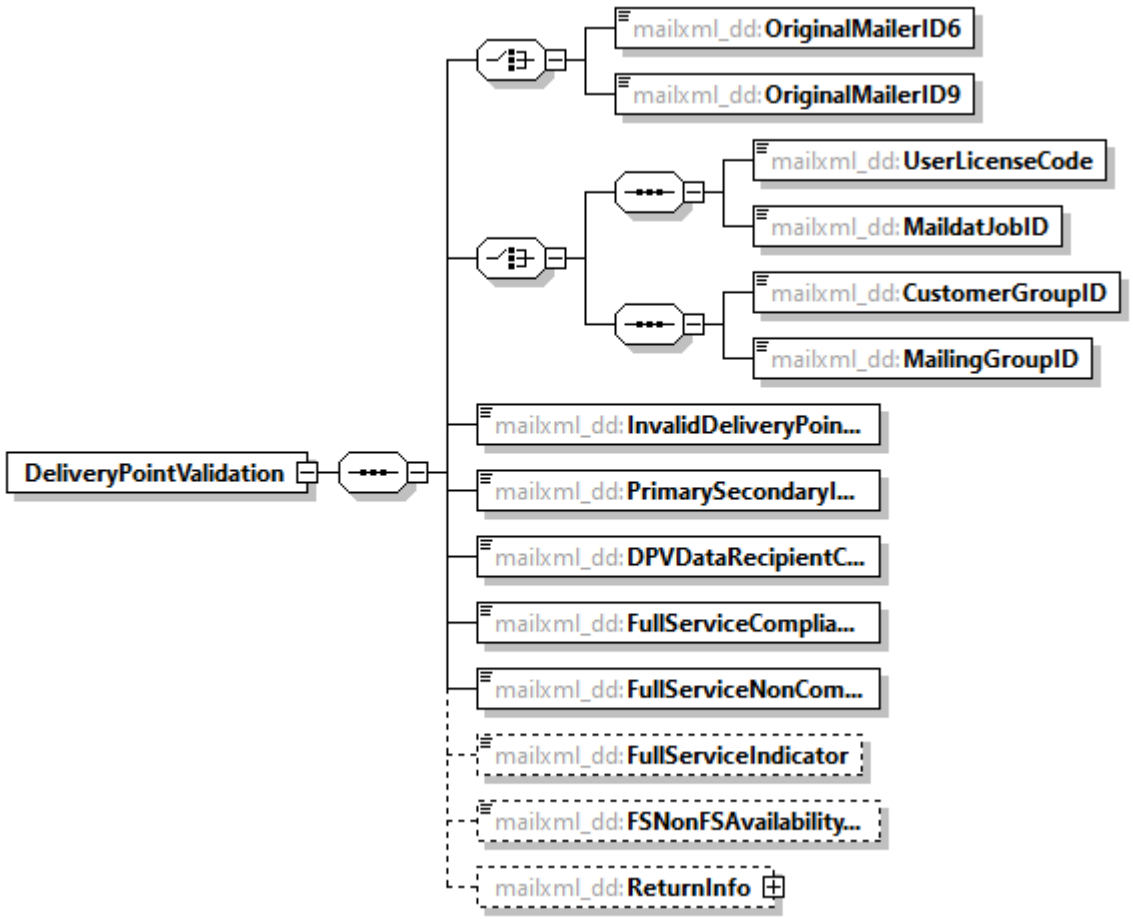
element **DataQualityVerificationReportQueryRequest**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml26.3/mailxml_dd
annotation	documentation Query request for full service data quality reports.

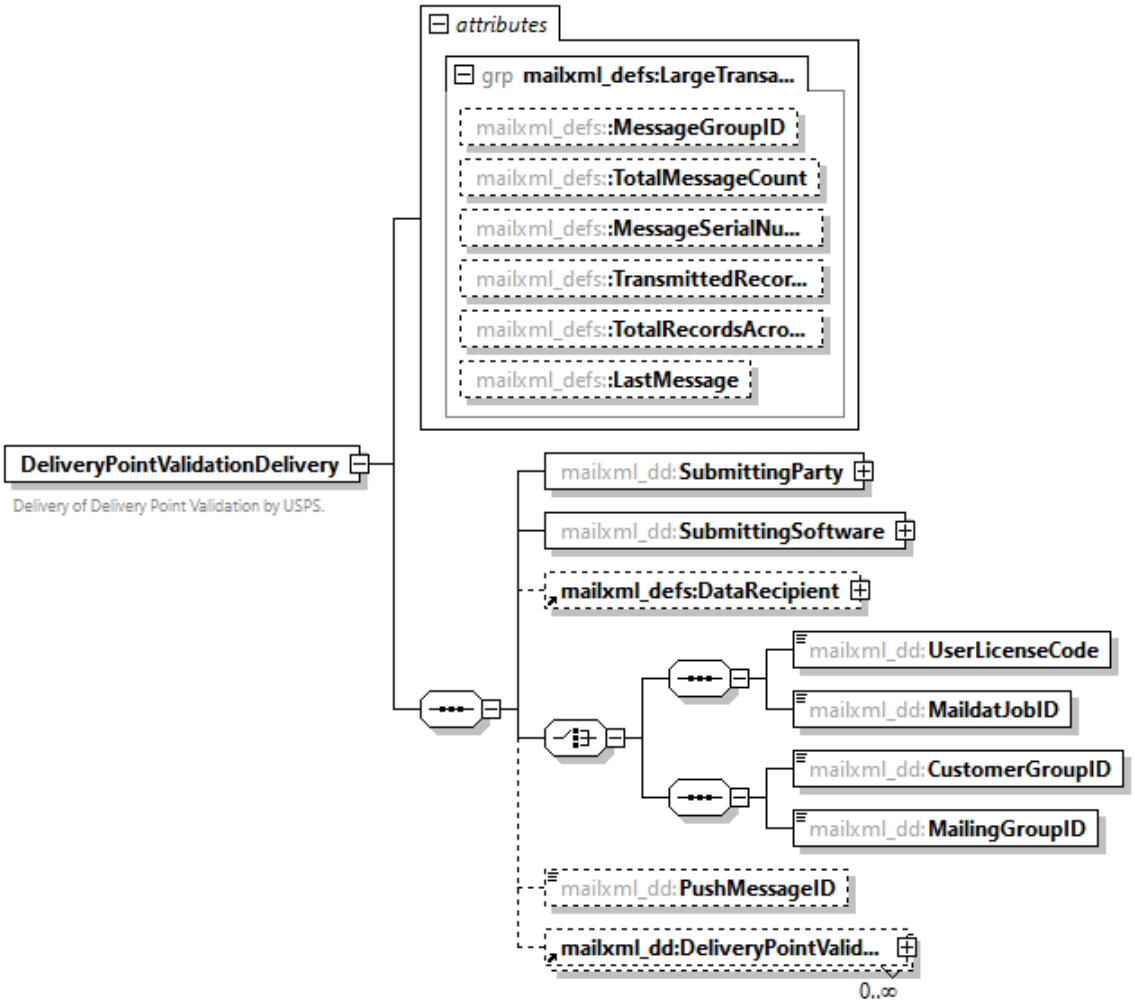
element **DataQualityVerificationReportQueryResponse**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml26.3/mailxml_dd
annotation	documentation Response to the Request for Full Service Data Quality Verification Reports

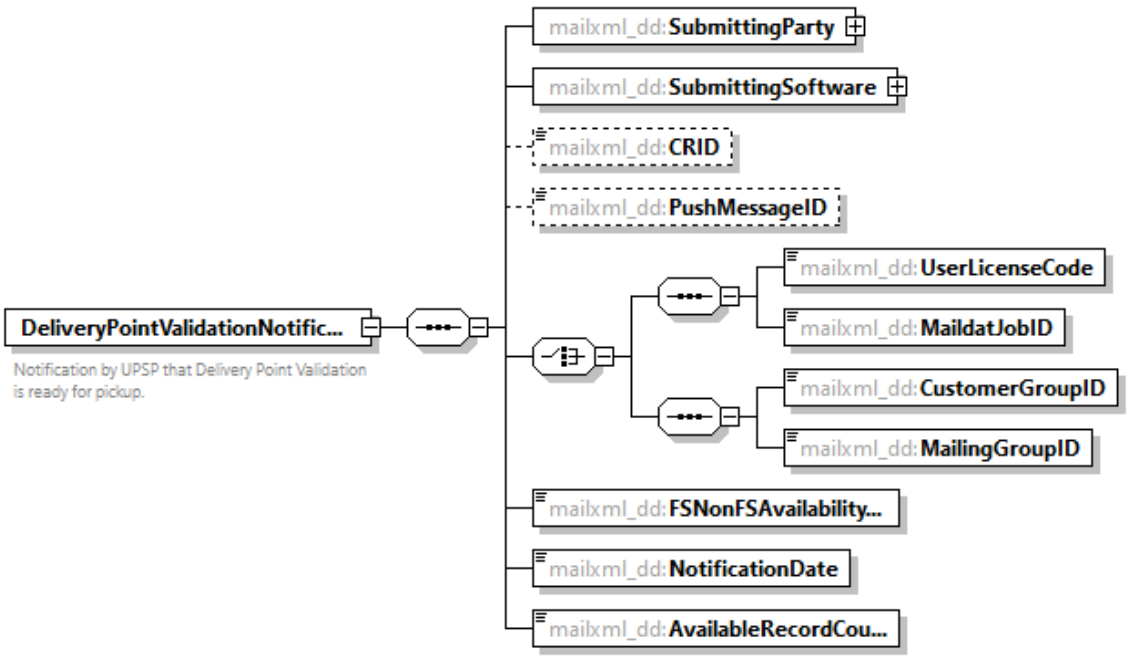
element **DeliveryPointValidation**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml26.3/mailxml_dd

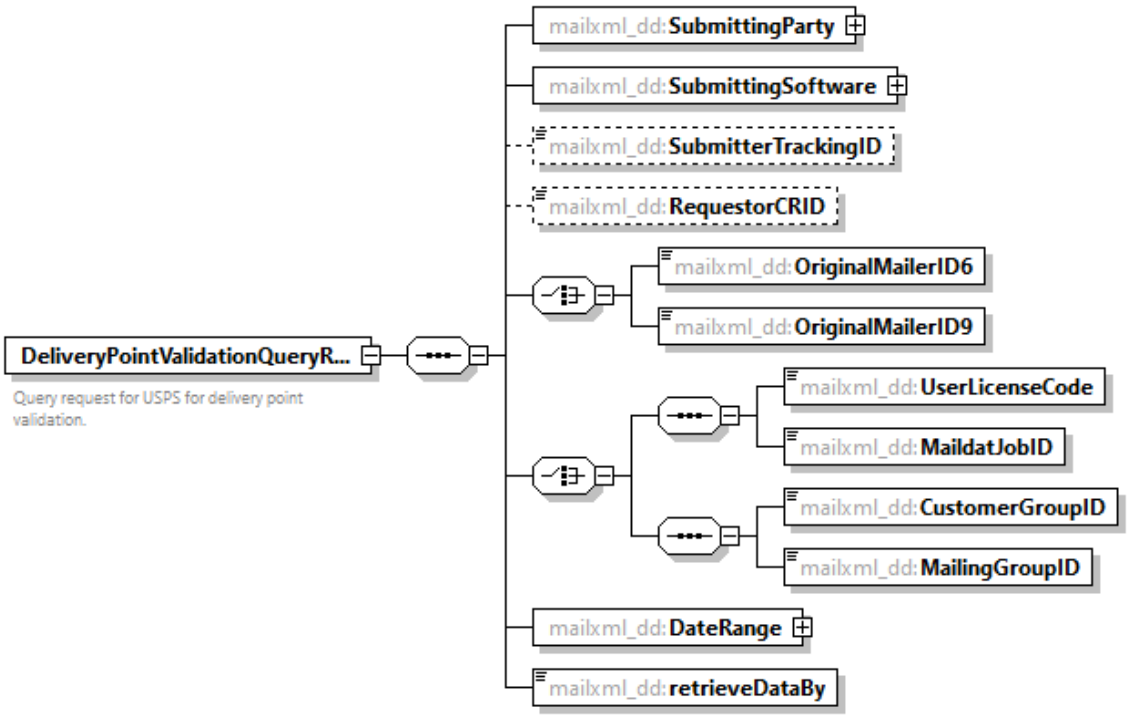
element **DeliveryPointValidationDelivery**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml26.3/mailxml_dd
annotation	documentation Delivery of Delivery Point Validation by USPS.

element **DeliveryPointValidationNotification**

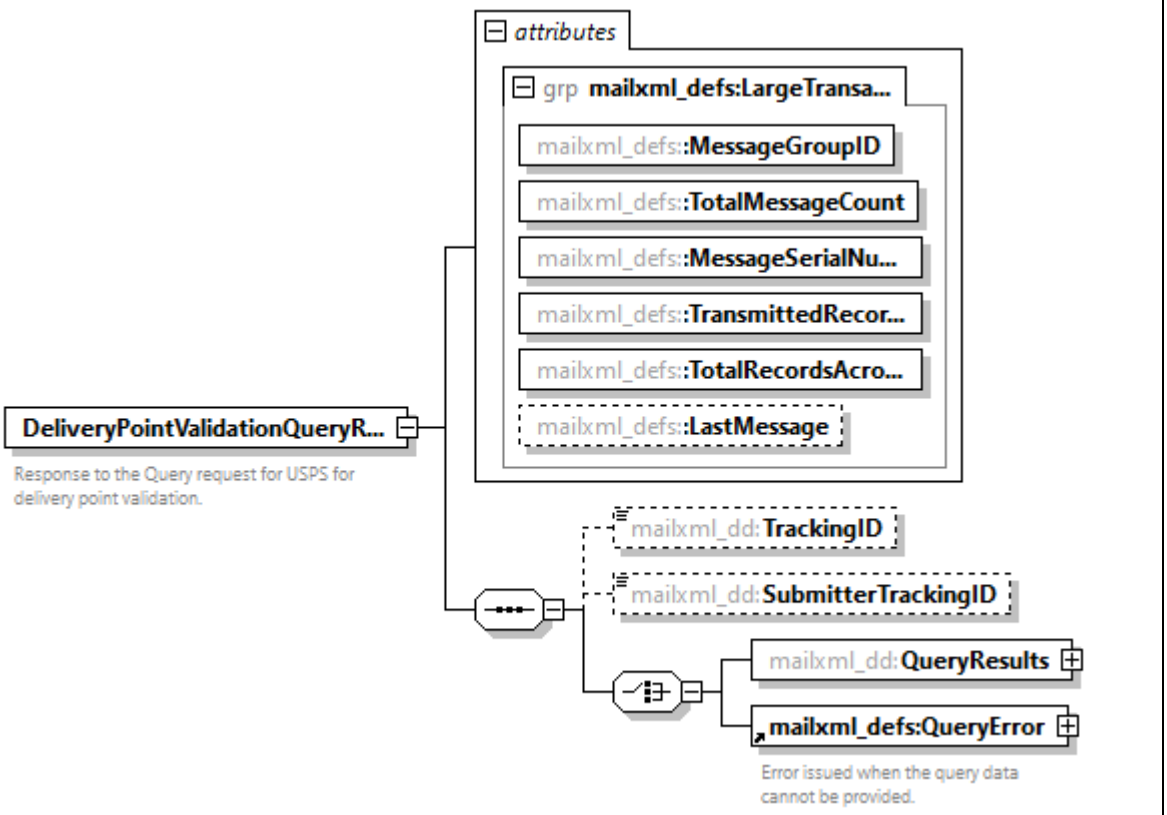
diagram	
namespace	http://delivery-tech.org/Specs/mailxml26.3/mailxml_dd
annotation	documentation Notification by UPSP that Delivery Point Validation is ready for pickup.

element **DeliveryPointValidationQueryRequest**

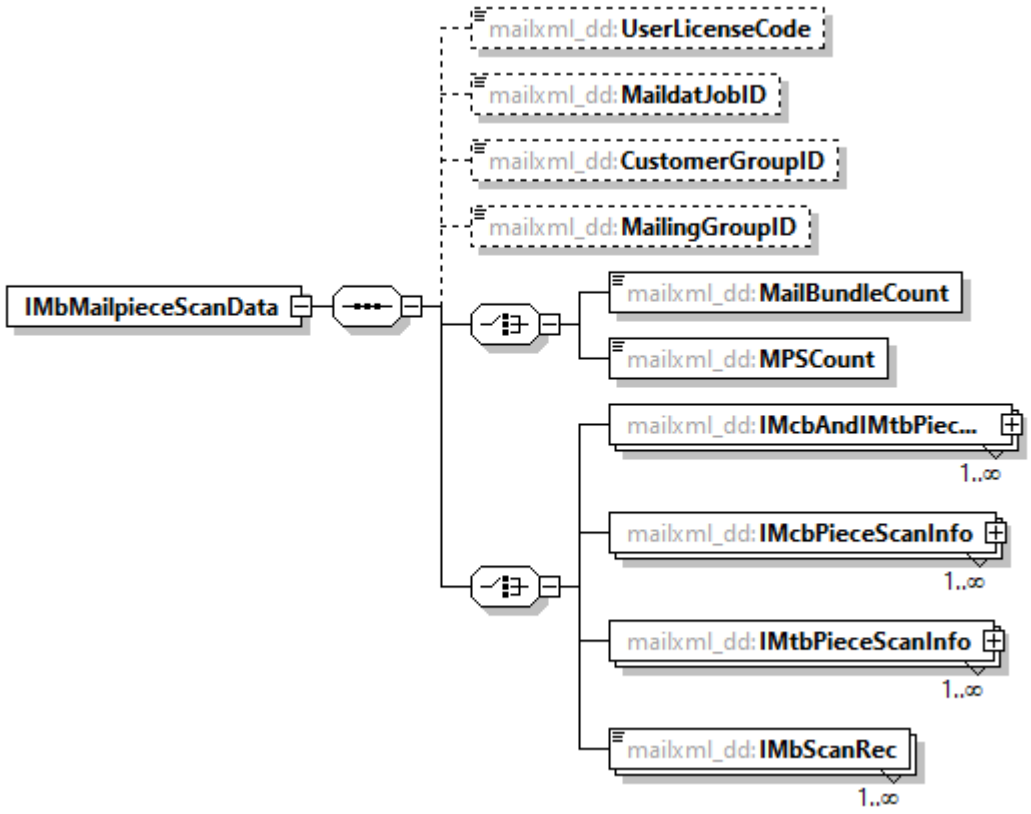
diagram	

namespace	http://delivery-tech.org/Specs/mailxml26.3/mailxml_dd
annotation	documentation Query request for USPS for delivery point validation.

element **DeliveryPointValidationQueryResponse**

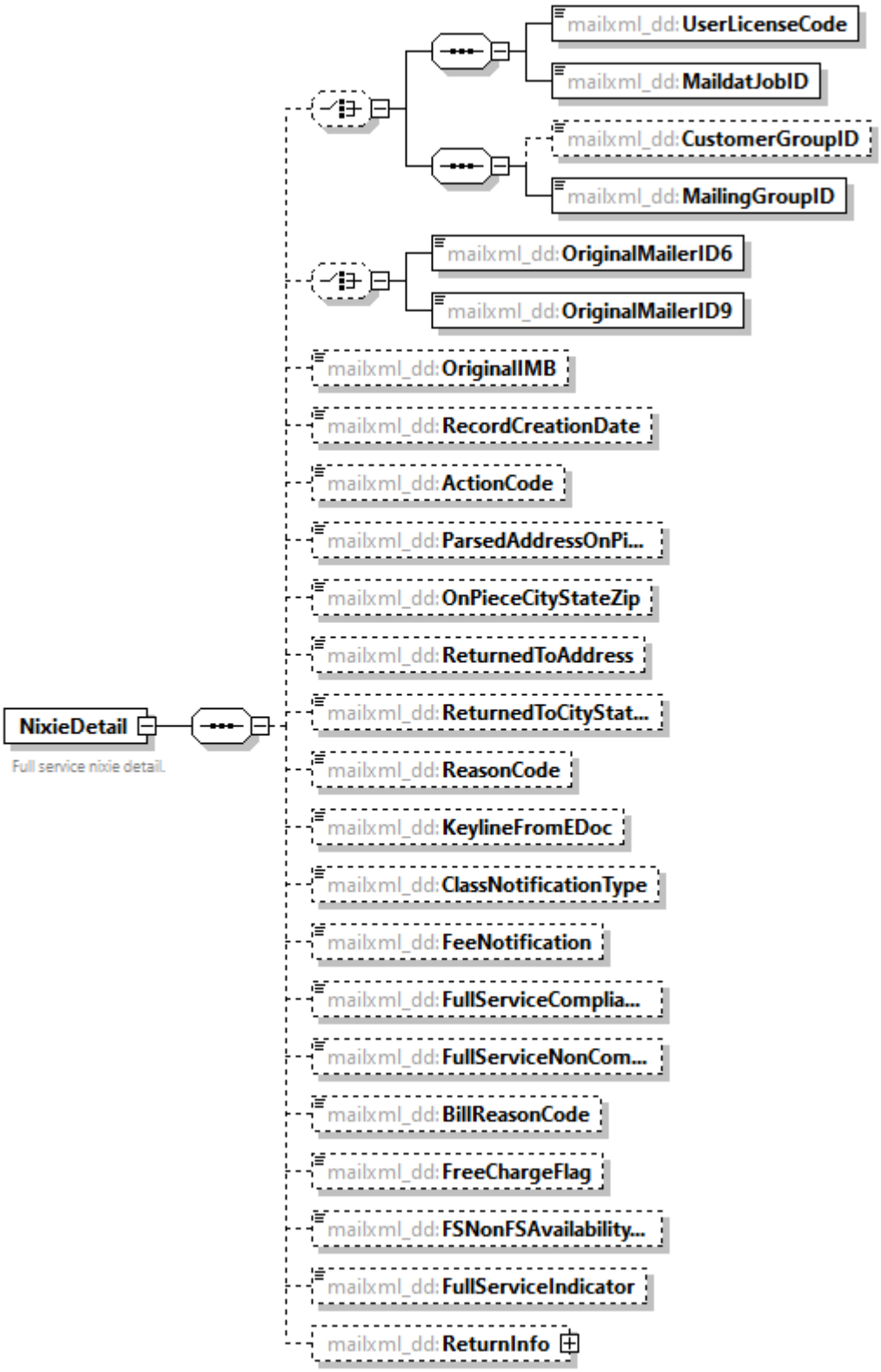
diagram	
namespace	http://delivery-tech.org/Specs/mailxml26.3/mailxml_dd
annotation	documentation Response to the Query request for USPS for delivery point validation.

element **IMbMailpieceScanData**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml26.3/mailxml_dd

element **NixieDetail**

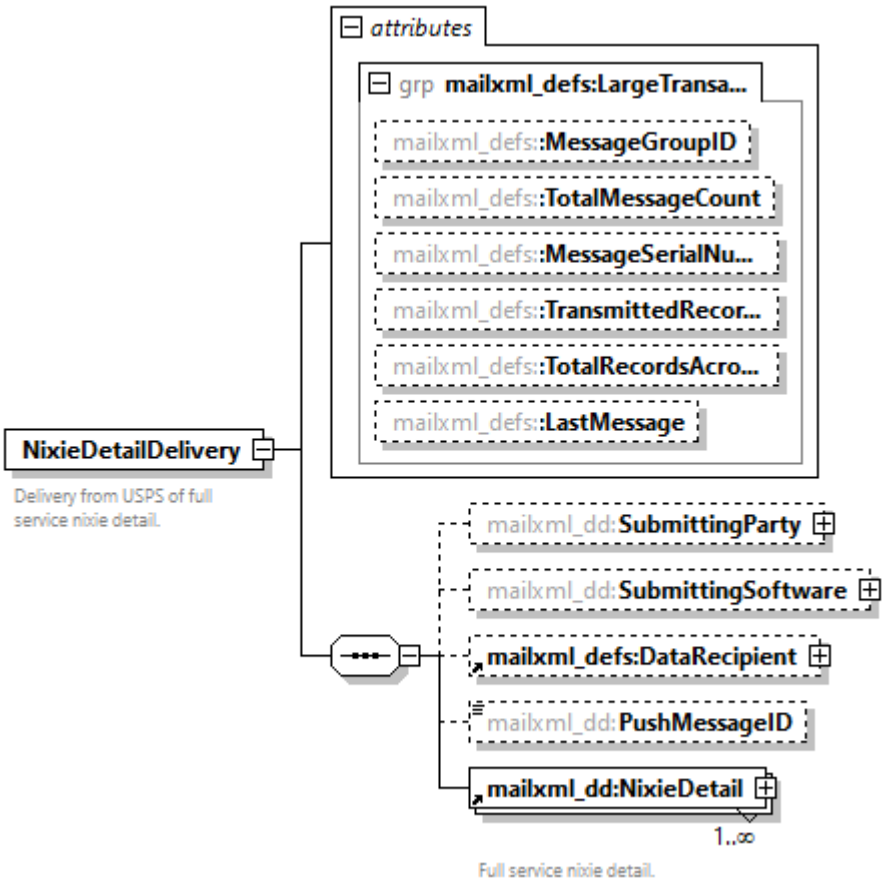
diagram



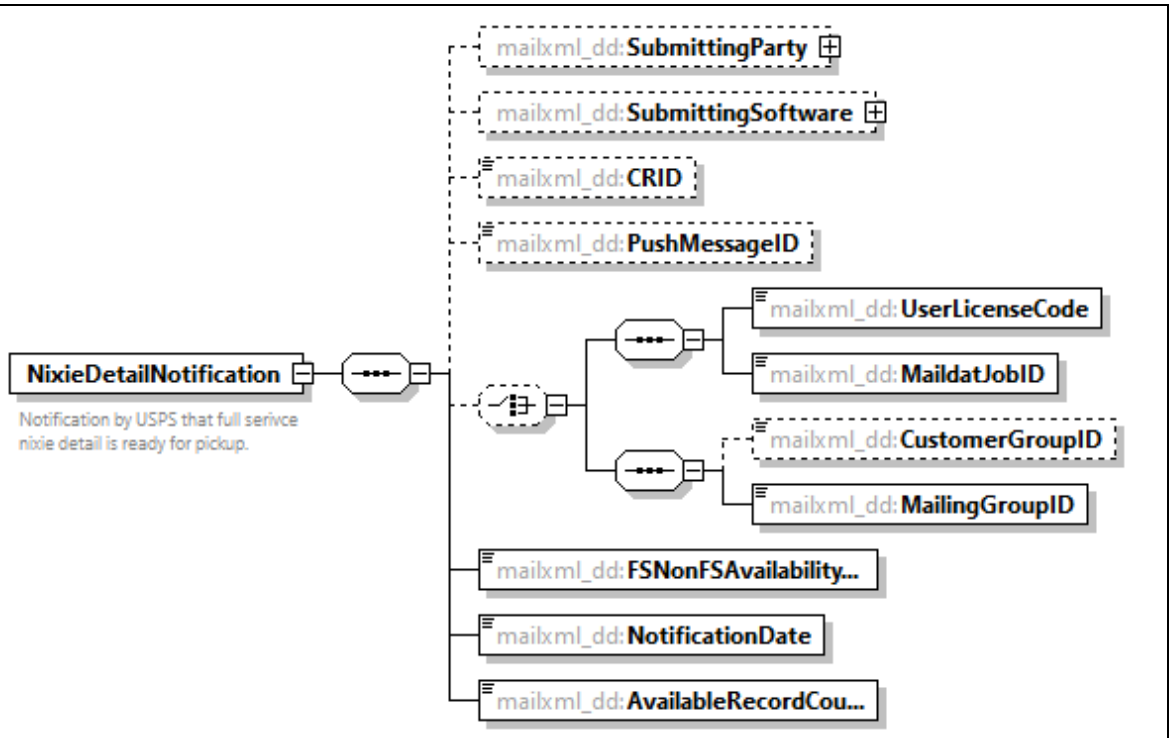
namespace	http://delivery-tech.org/Specs/mailxml26.3/mailxml_dd

annotation	documentation Full service nixie detail.

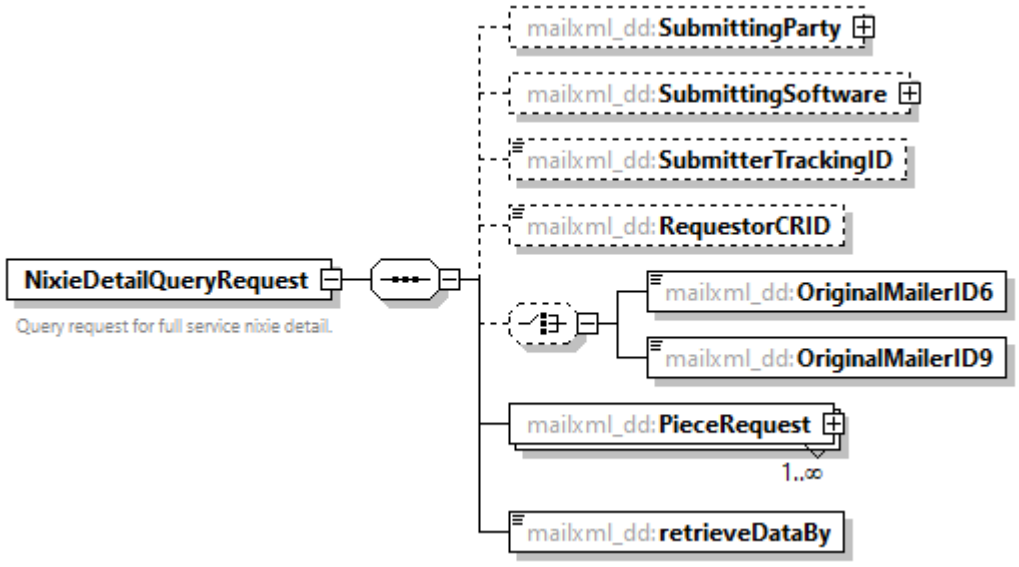
element **NixieDetailDelivery**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml26.3/mailxml_dd
annotation	documentation Delivery from USPS of full service nixie detail.

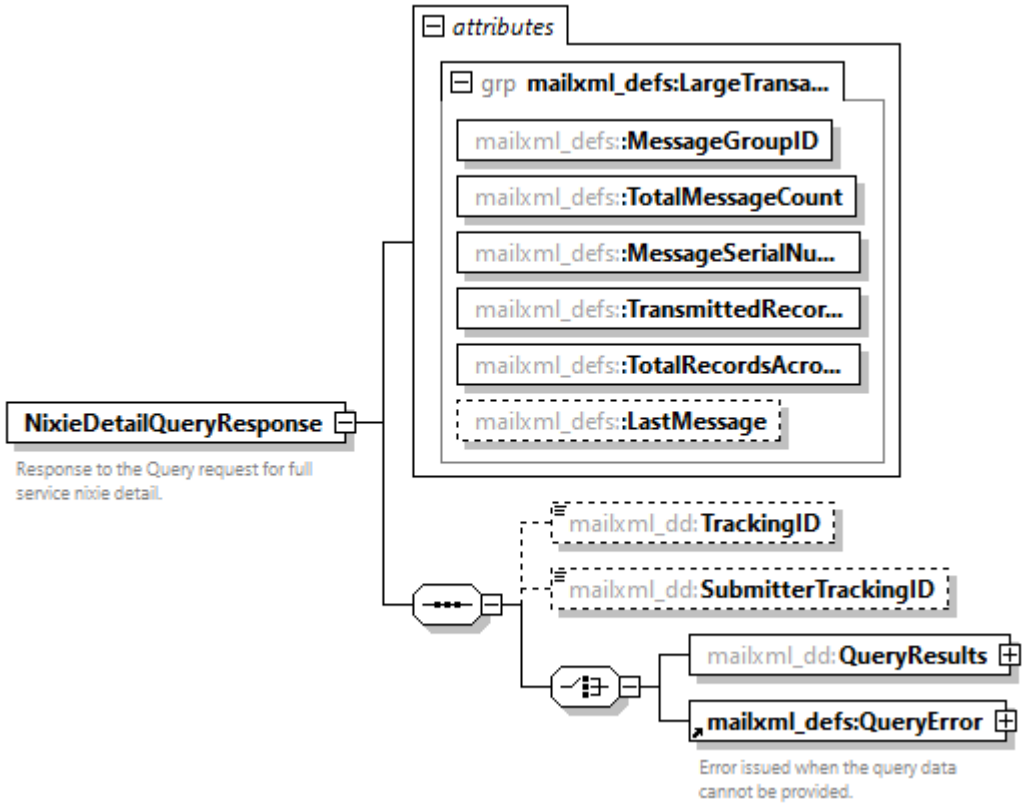
element **NixieDetailNotification**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml26.3/mailxml_dd
annotation	documentation Notification by USPS that full serivce nixie detail is ready for pickup.

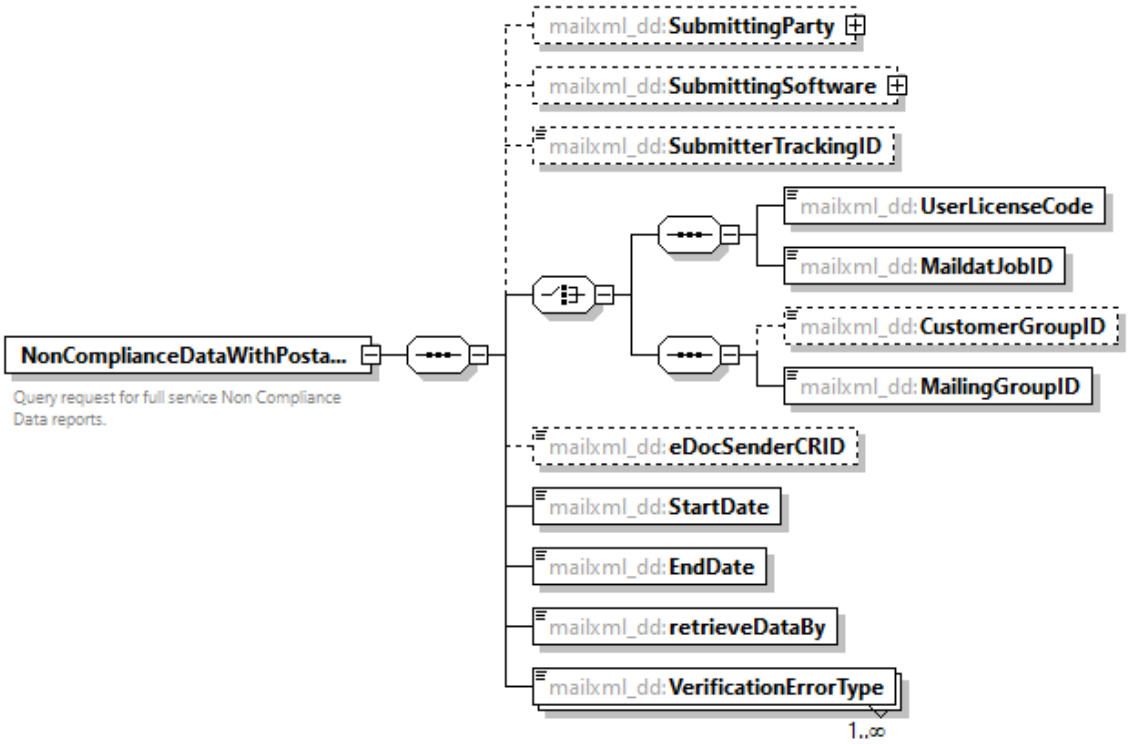
element **NixieDetailQueryRequest**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml26.3/mailxml_dd
annotation	documentation Query request for full service nixie detail.

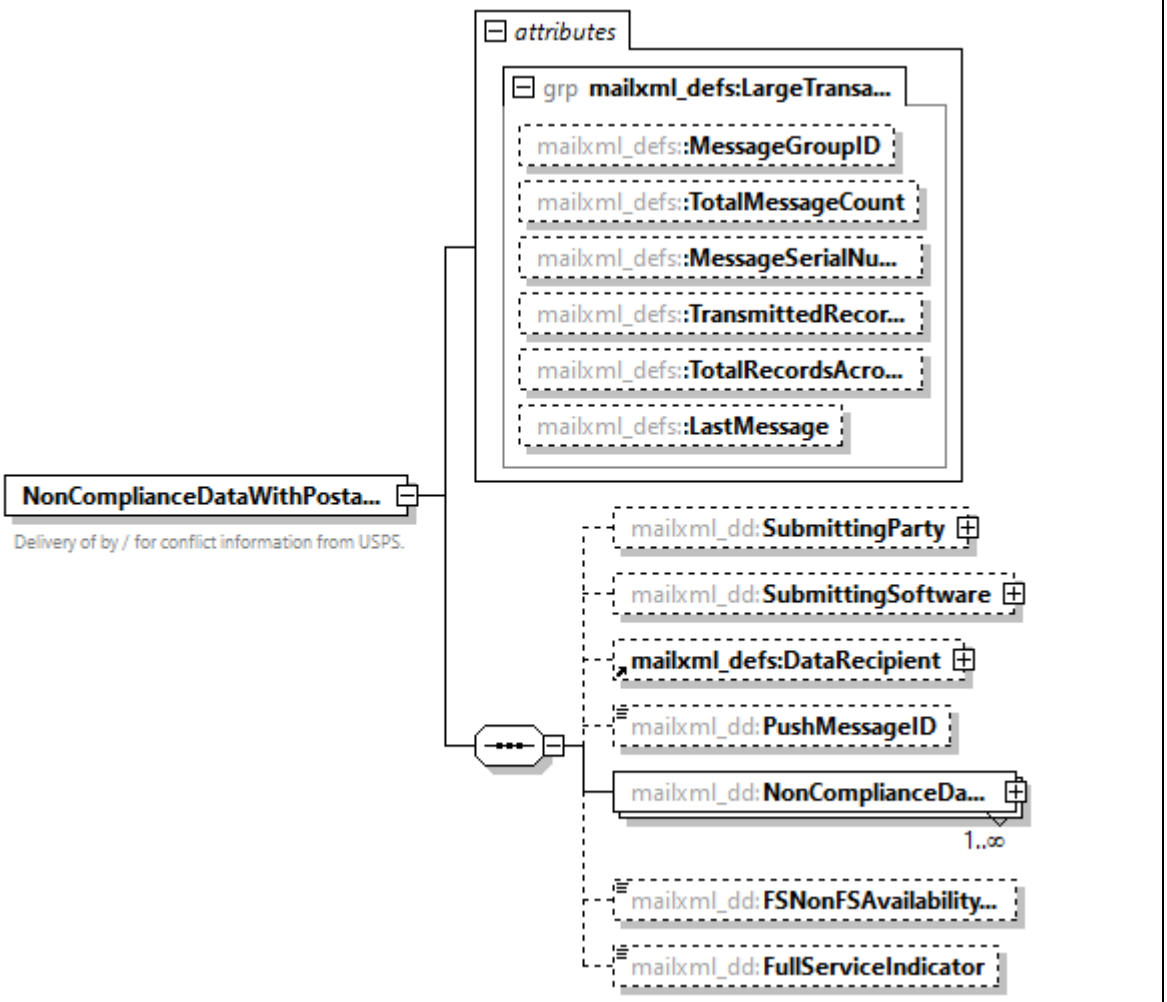
element **NixieDetailQueryResponse**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml26.3/mailxml_dd
annotation	documentation Response to the Query request for full service nixie detail.

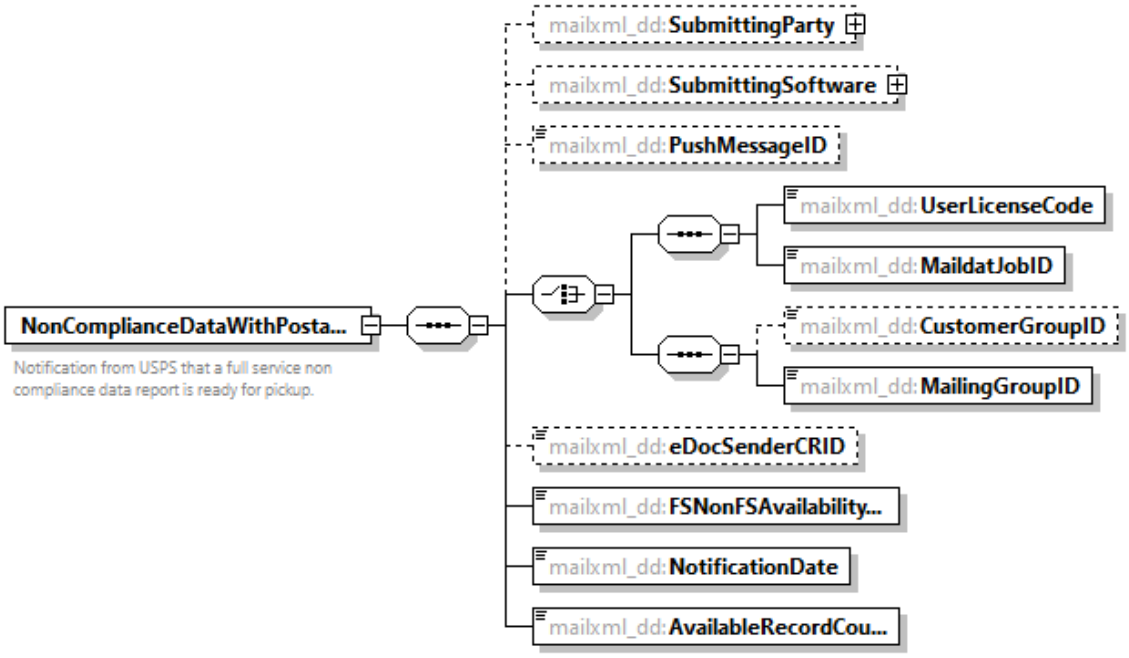
element **NonComplianceDataWithPostageOwedQueryRequest**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml26.3/mailxml_dd
annotation	documentation Query request for full service Non Compliance Data reports.

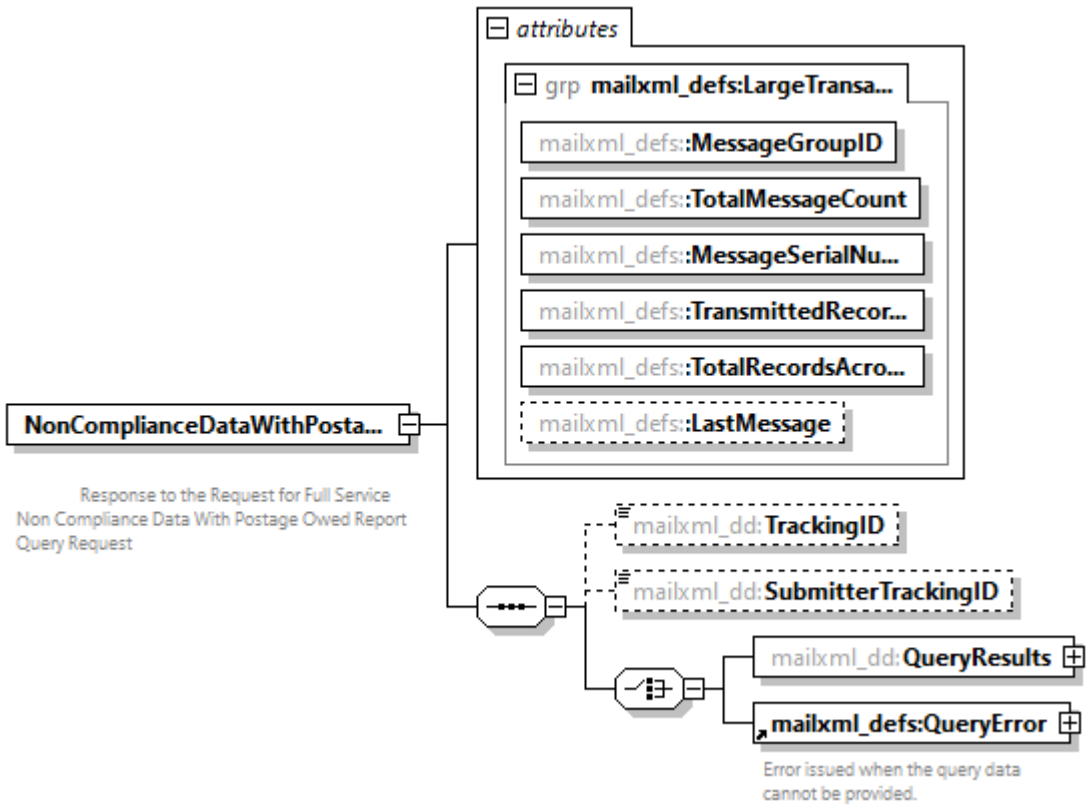
element **NonComplianceDataWithPostageOwedReportDelivery**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml26.3/mailxml_dd
annotation	documentation Delivery of by / for conflict information from USPS.

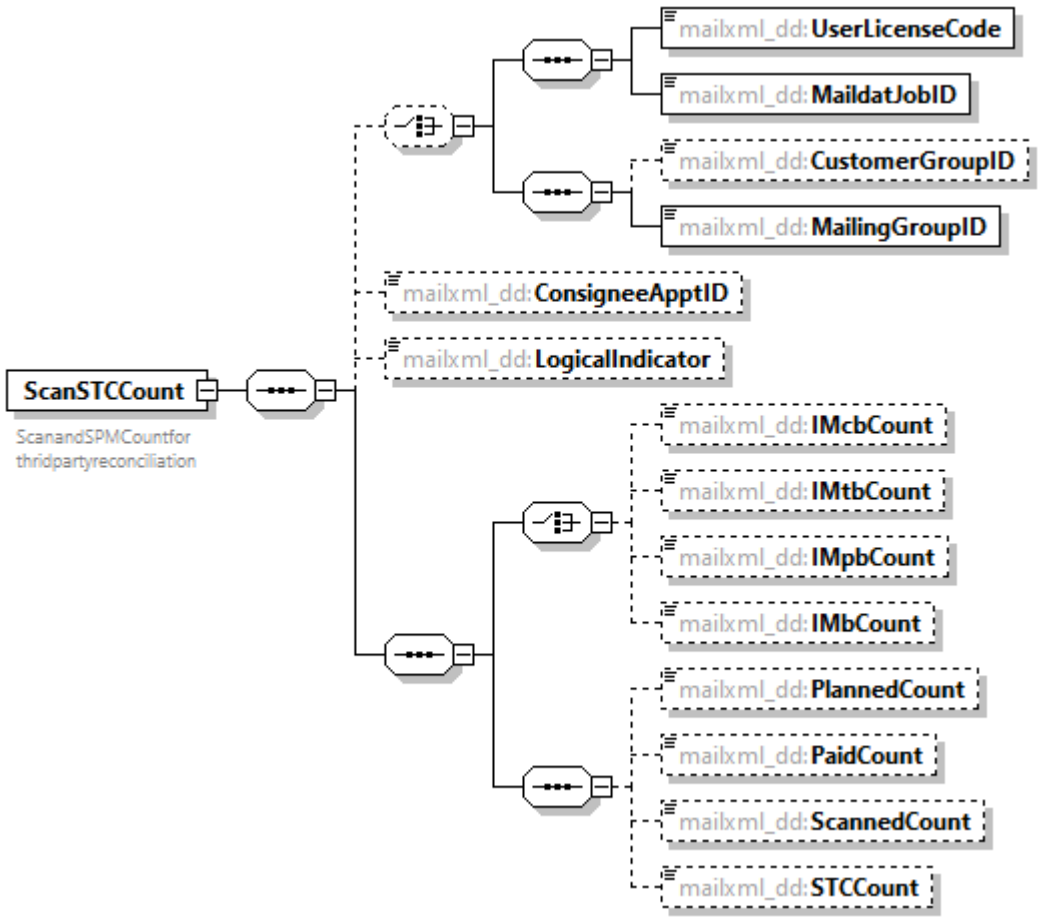
element **NonComplianceDataWithPostageOwedReportNotification**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml26.3/mailxml_dd
annotation	documentation Notification from USPS that a full service non compliance data report is ready for pickup.

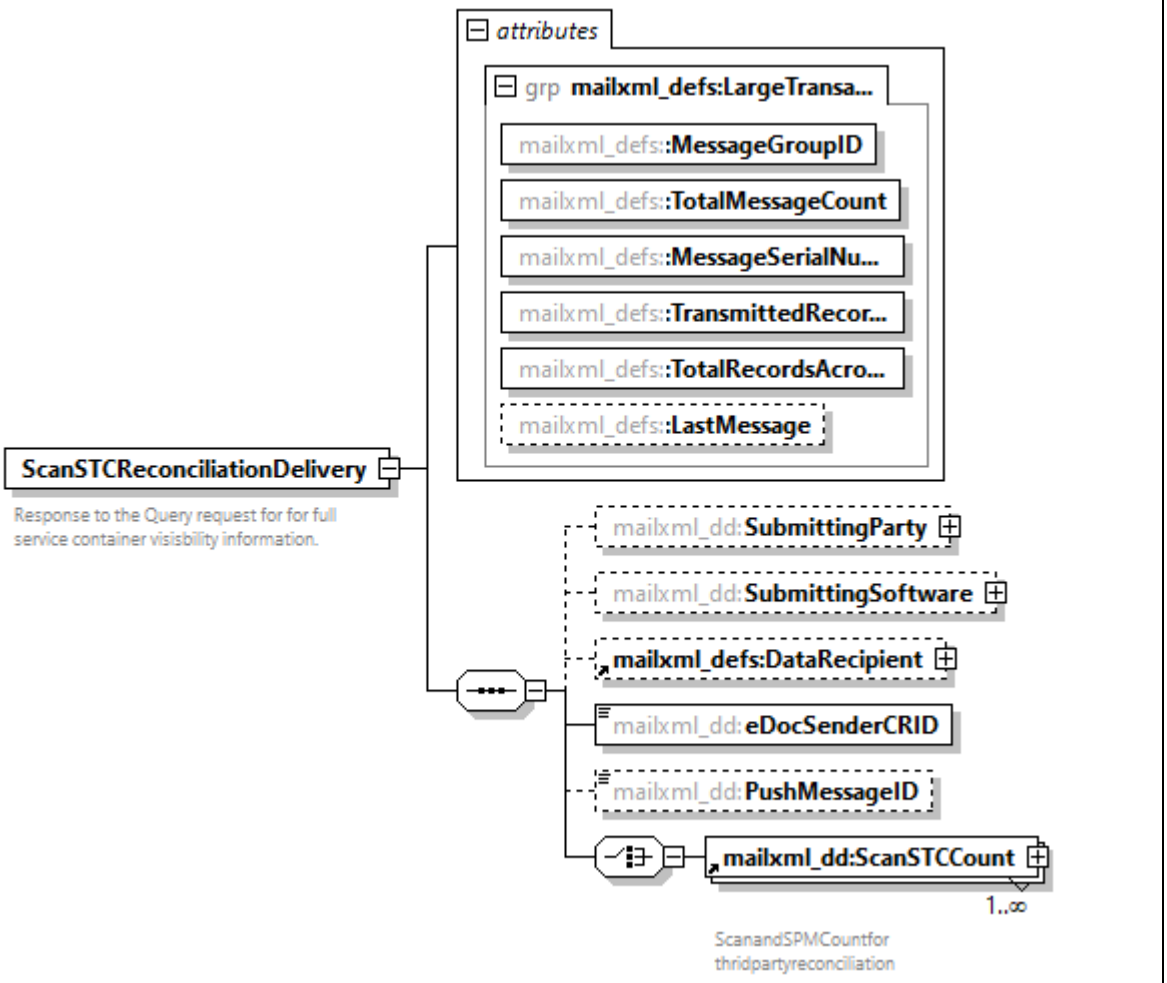
element **NonComplianceDataWithPostageOwedReportQueryResponse**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml26.3/mailxml_dd
annotation	documentation Response to the Request for Full Service Non Compliance Data With Postage Owed Report Query Request

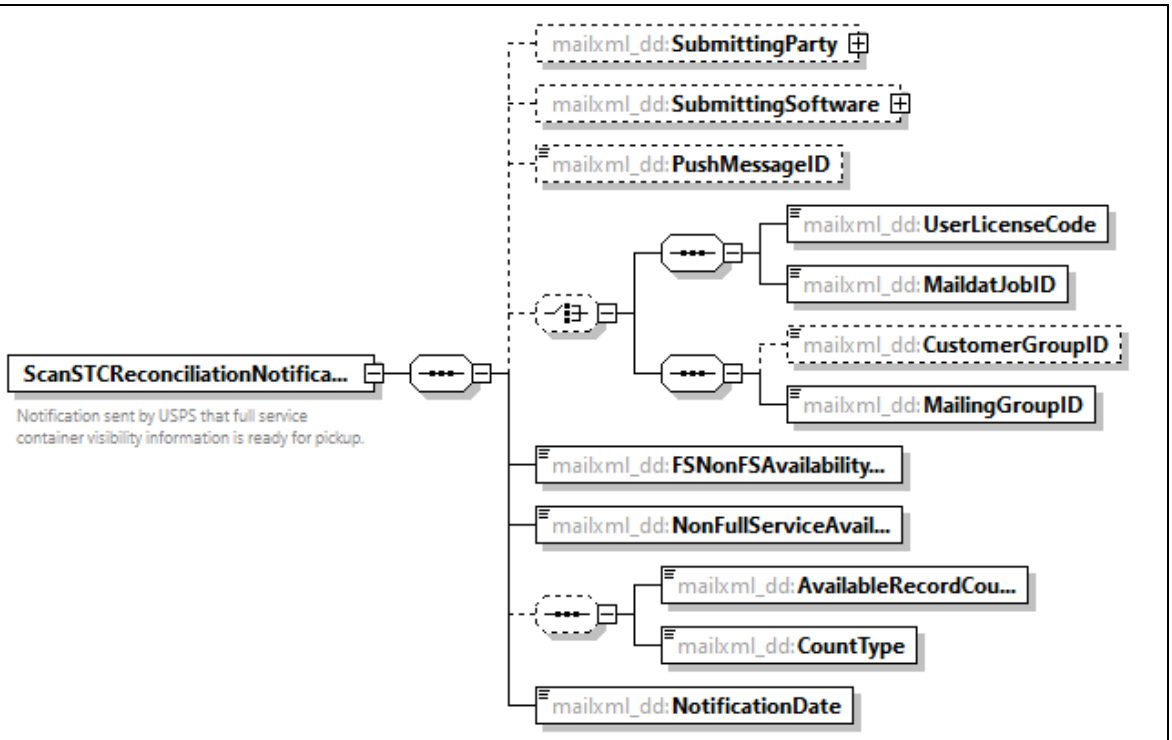
element **ScanSTCCount**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml26.3/mailxml_dd
annotation	documentation ScanandSPMCountfor thridpartyreconciliation

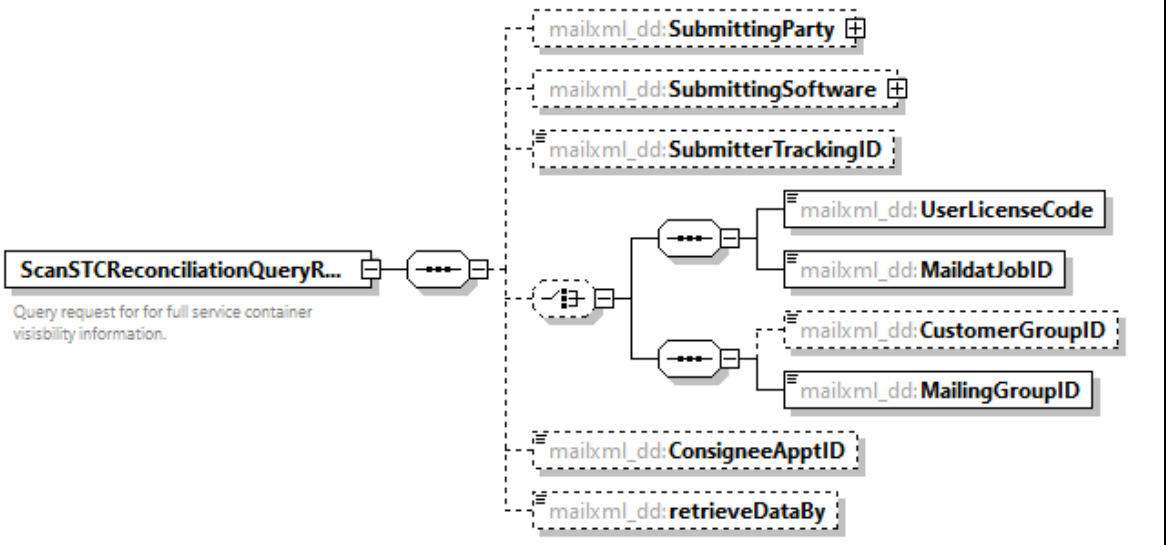
element **ScanSTCReconciliationDelivery**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml26.3/mailxml_dd
annotation	documentation Response to the Query request for for full service container visisbility information.

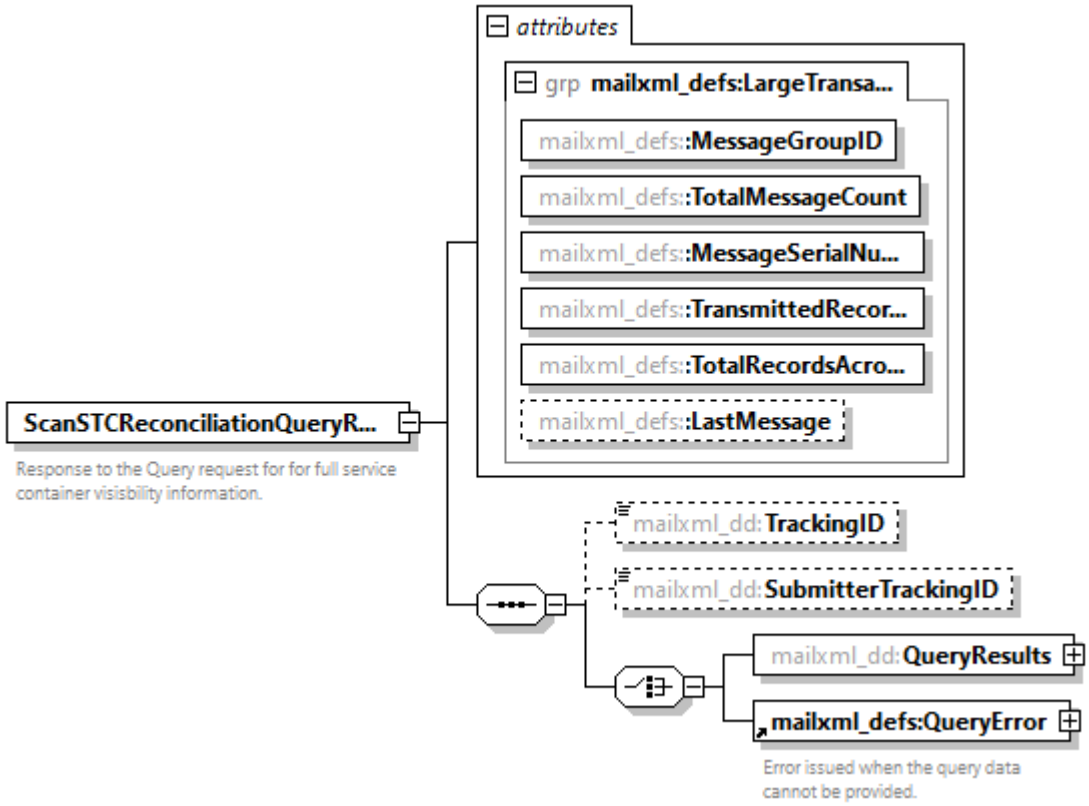
element **ScanSTCReconciliationNotification**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml26.3/mailxml_dd
annotation	documentation Notification sent by USPS that full service container visibility information is ready for pickup.

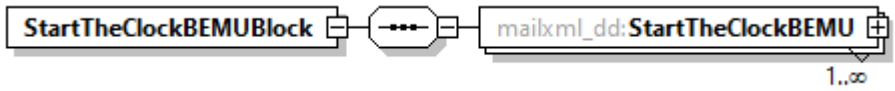
element **ScanSTCReconciliationQueryRequest**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml26.3/mailxml_dd
annotation	documentation Query request for for full service container visisbility information.

element **ScanSTCReconciliationQueryResponse**

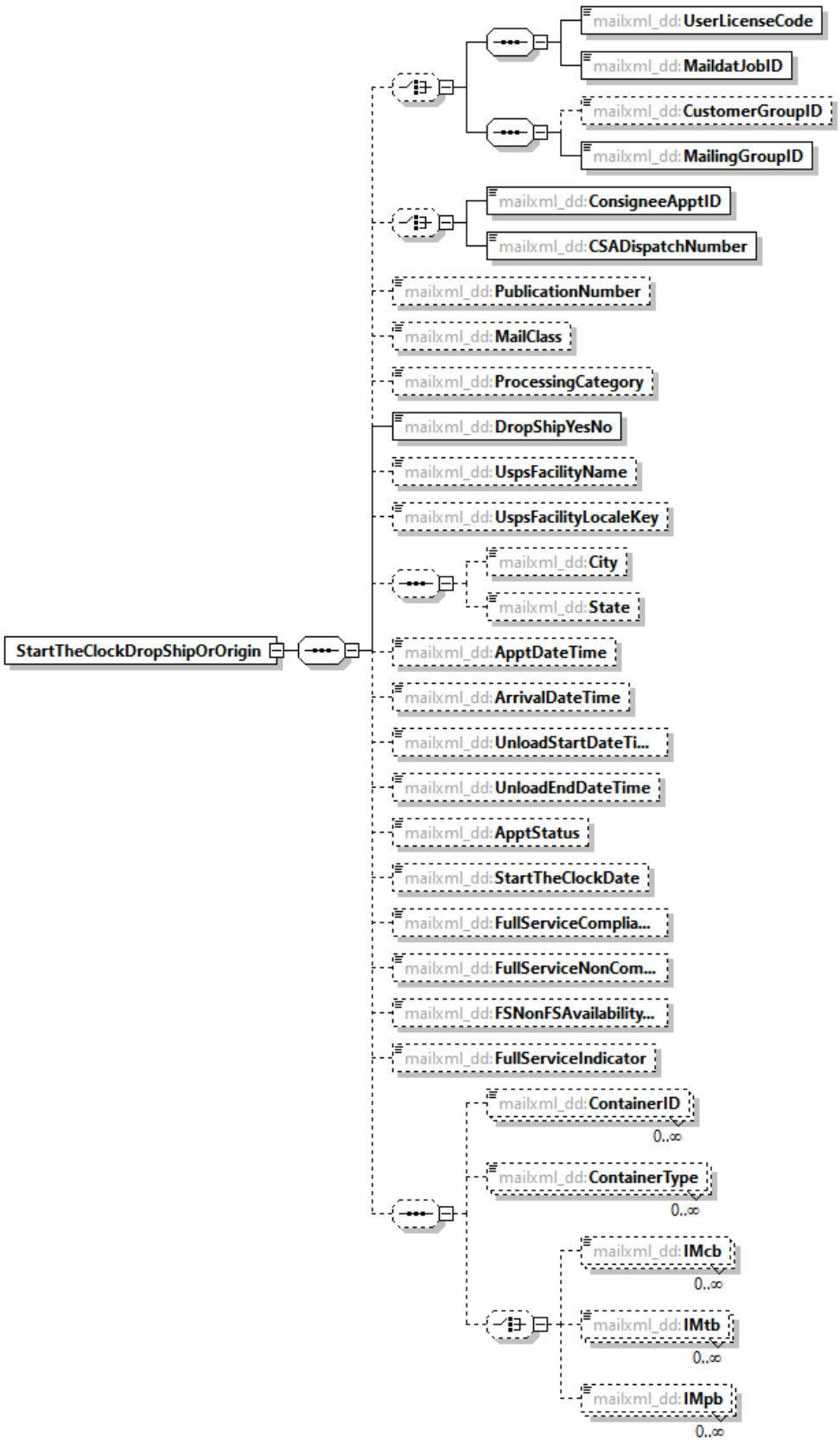
diagram	
namespace	http://delivery-tech.org/Specs/mailxml26.3/mailxml_dd
annotation	documentation Response to the Query request for for full service container visisbility information.

element **StartTheClockBEMUBlock**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml26.3/mailxml_dd

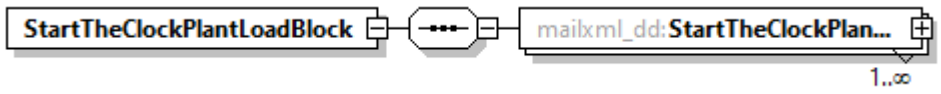
element **StartTheClockDropShipOrOrigin**

diagram


StartTheClockDropShipOrOrigin
mailxml_dd:UserLicenseCode
mailxml_dd:MaildatJobID
mailxml_dd:CustomerGroupID
mailxml_dd:MailingGroupID
mailxml_dd:ConsigneeApptID
mailxml_dd:CSADispatchNumber
mailxml_dd:PublicationNumber
mailxml_dd:MailClass
mailxml_dd:ProcessingCategory
mailxml_dd:DropShipYesNo
mailxml_dd:UspsFacilityName
mailxml_dd:UspsFacilityLocaleKey
mailxml_dd:City
mailxml_dd:State
mailxml_dd:ApptDateTime
mailxml_dd:ArrivalDateTime
mailxml_dd:UnloadStartDateTi...
mailxml_dd:UnloadEndDateTime
mailxml_dd:ApptStatus
mailxml_dd:StartTheClockDate
mailxml_dd:FullServiceComplia...
mailxml_dd:FullServiceNonCom...
mailxml_dd:FSNonFSAvailability...
mailxml_dd:FullServiceIndicator
mailxml_dd:ContainerID
0..∞
mailxml_dd:ContainerType
0..∞
mailxml_dd:IMcb
0..∞
mailxml_dd:IMtb
0..∞
mailxml_dd:IMpb
0..∞

namespace	http://delivery-tech.org/Specs/mailxml26.3/mailxml_dd

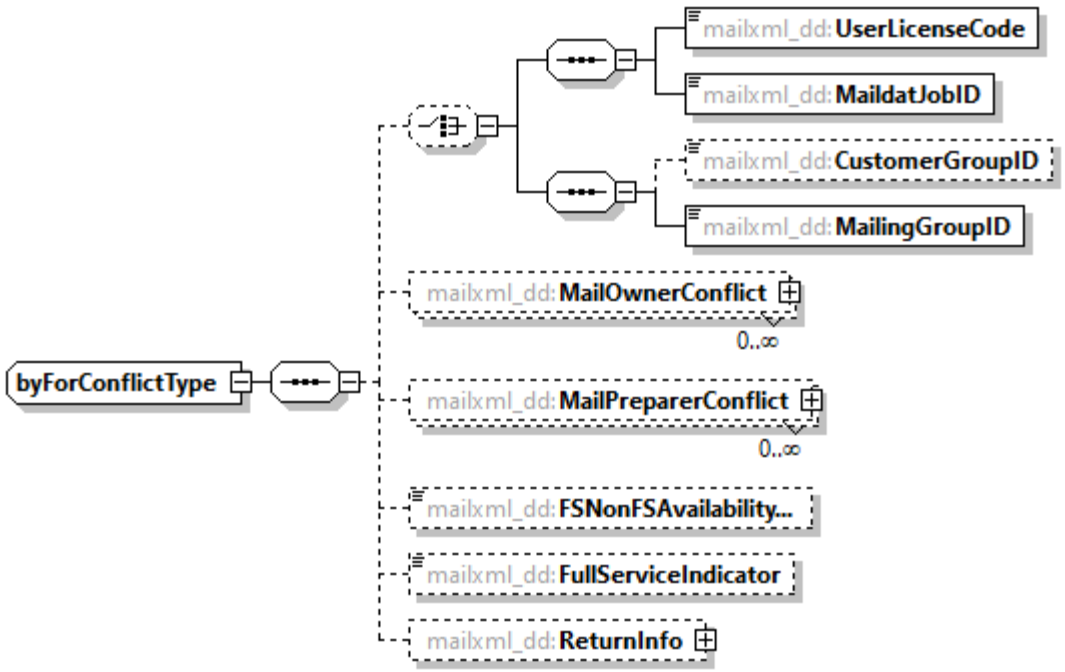
element **StartTheClockPlantLoadBlock**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml26.3/mailxml_dd

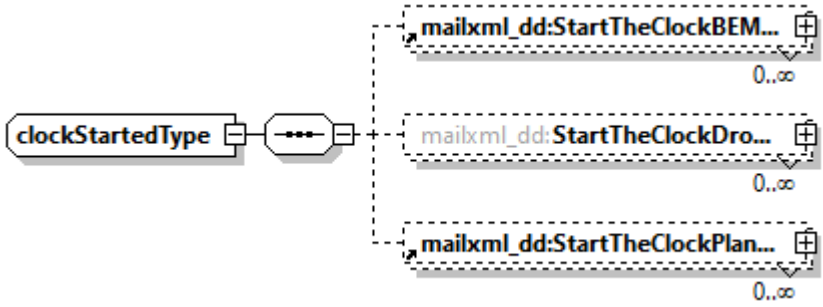
complexType **addressCorrectionAddressType**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml26.3/mailxml_dd

complexType **byForConflictType**

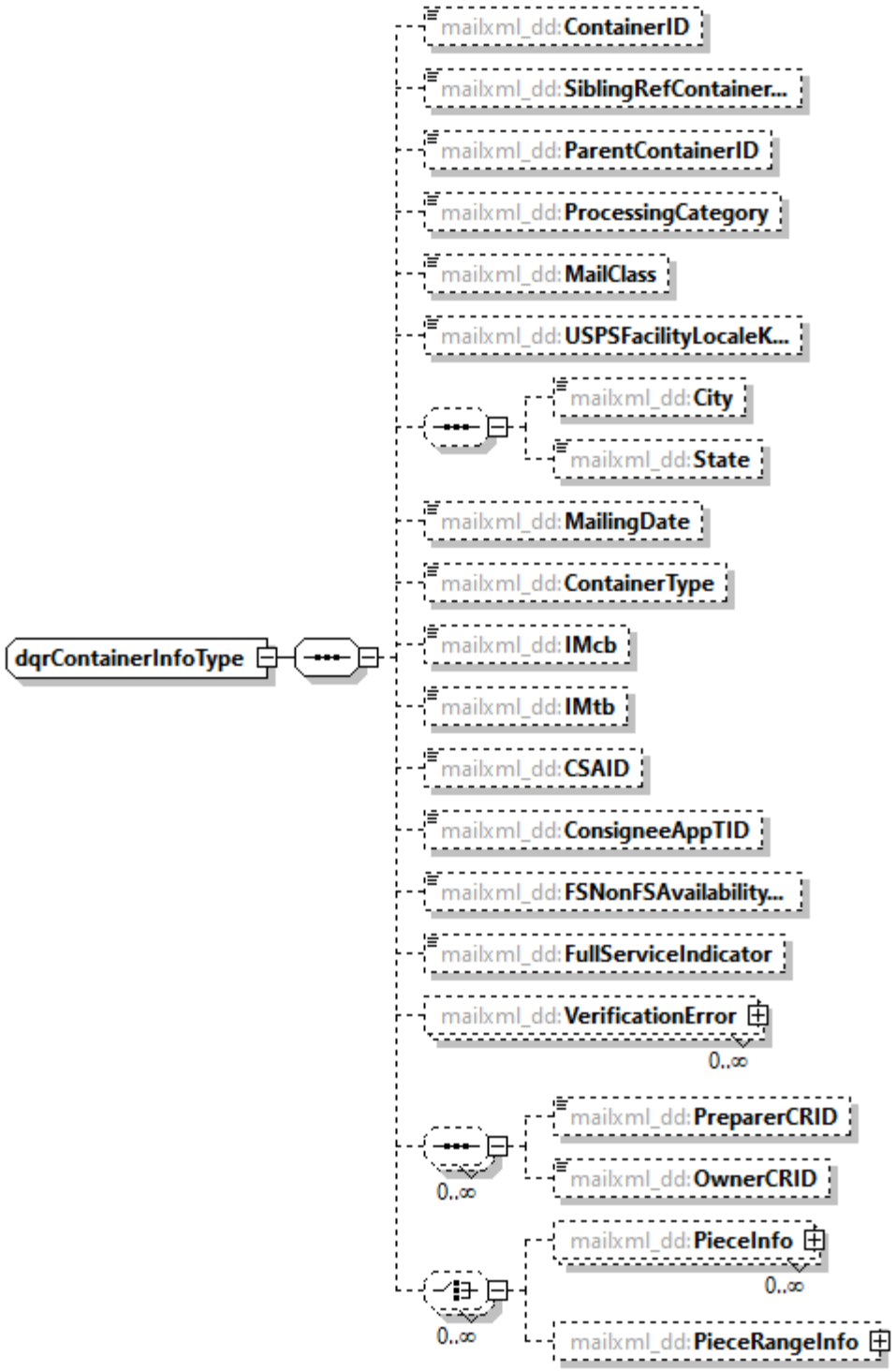
diagram	
namespace	http://delivery-tech.org/Specs/mailxml26.3/mailxml_dd

complexType **clockStartedType**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml26.3/mailxml_dd

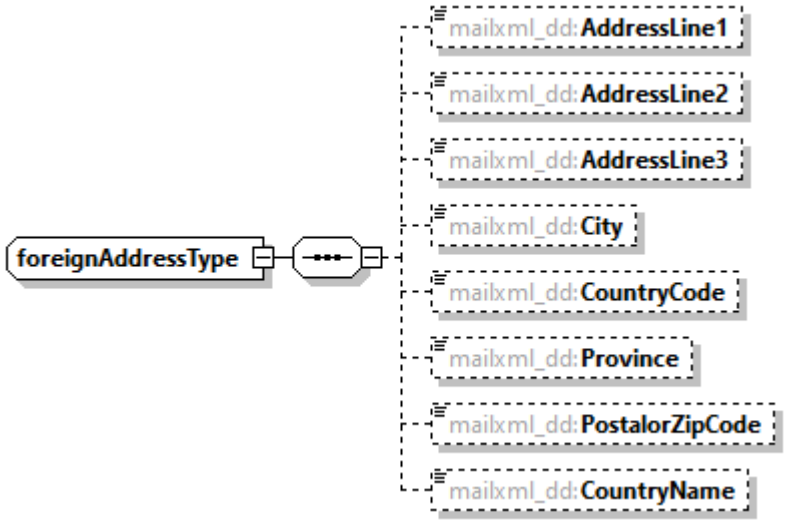
complexType **dqrContainerInfoType**

diagram

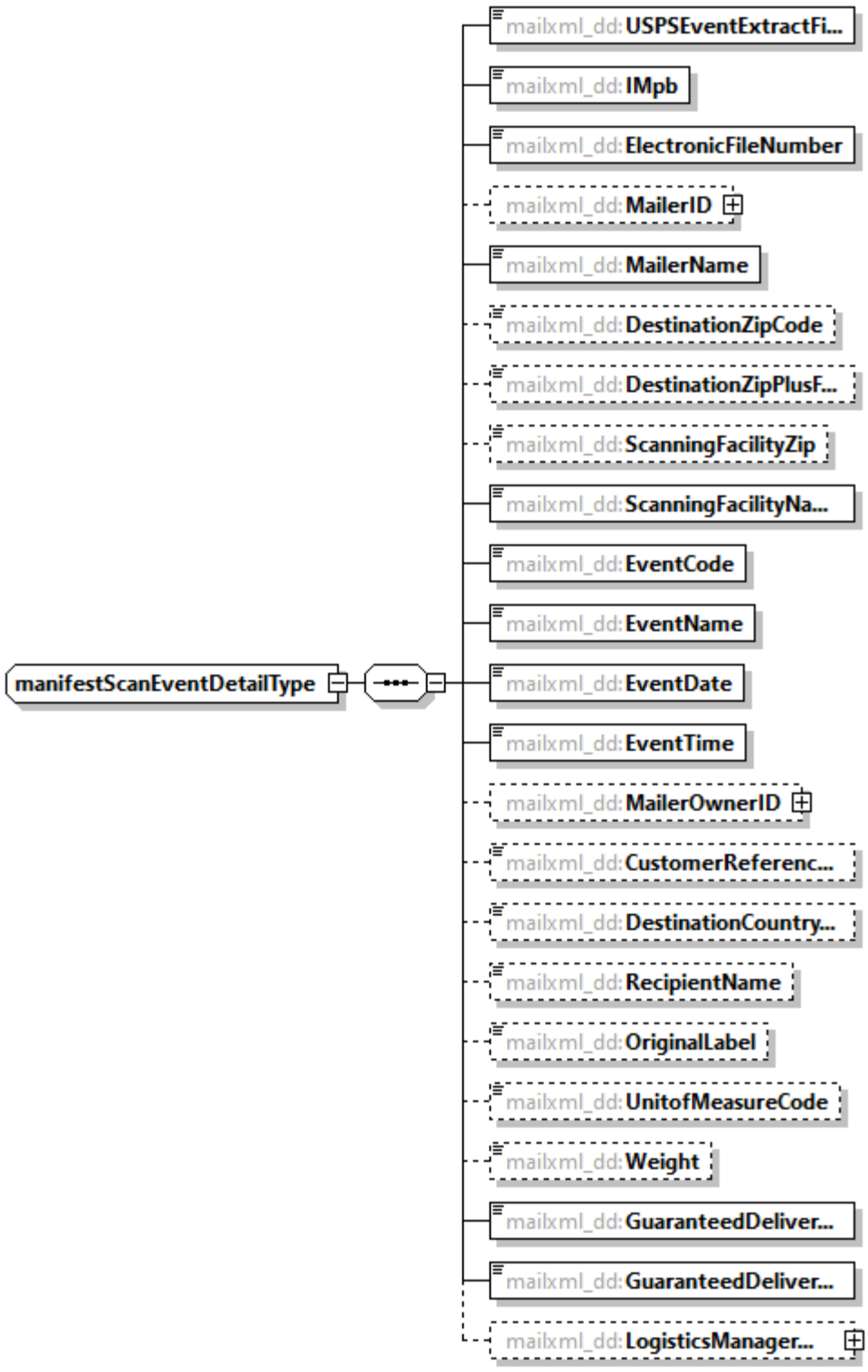


namespace	http://delivery-tech.org/Specs/mailxml26.3/mailxml_dd

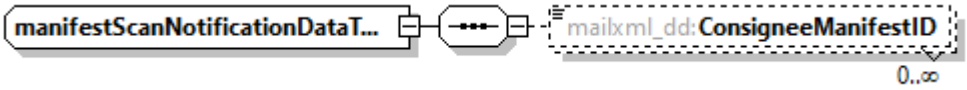
complexType **foreignAddressType**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml26.3/mailxml_dd

complexType **manifestScanEventDetailType**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml26.3/mailxml_dd

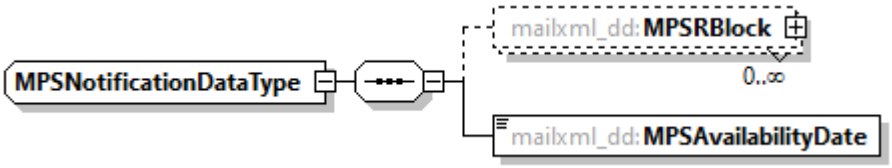
complexType **manifestScanNotificationDataType**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml26.3/mailxml_dd

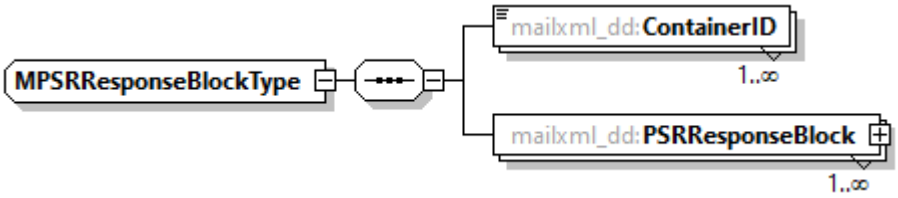
complexType **manifestScanQueryType**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml26.3/mailxml_dd

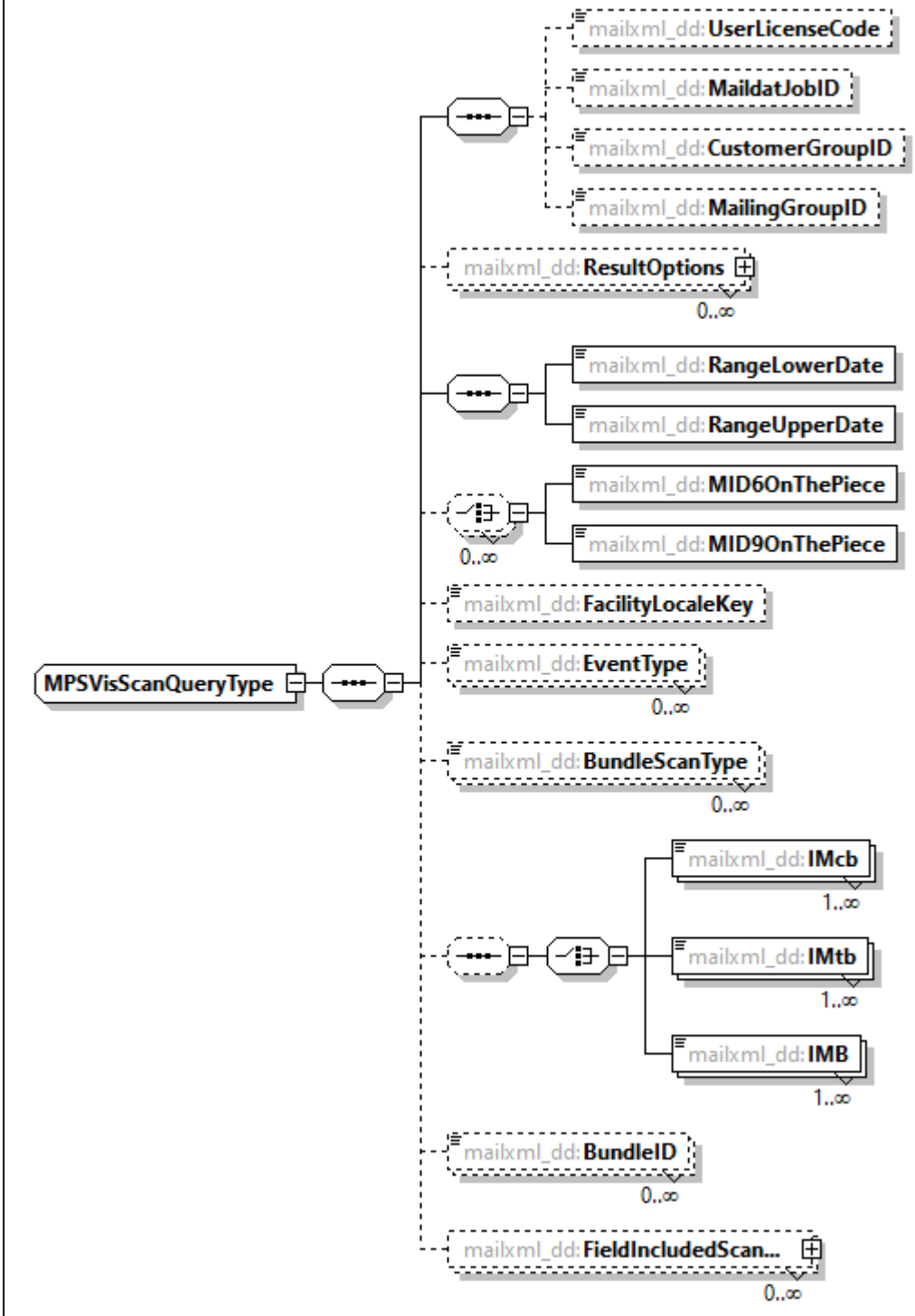
complexType **MPSNotificationDataType**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml26.3/mailxml_dd

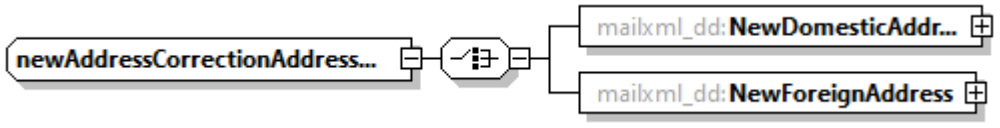
complexType **MPSRResponseBlockType**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml26.3/mailxml_dd

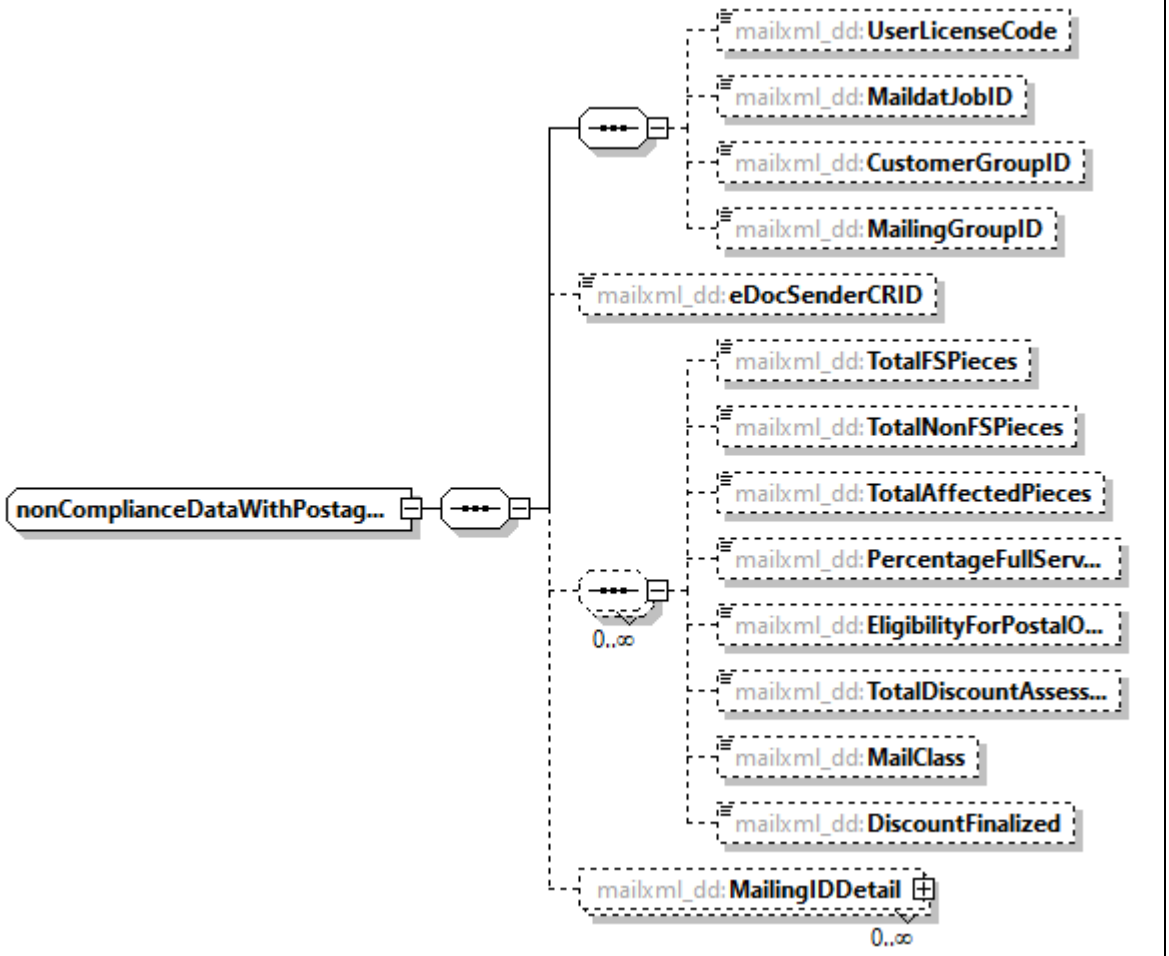
complexType **MPSVisScanQueryType**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml26.3/mailxml_dd

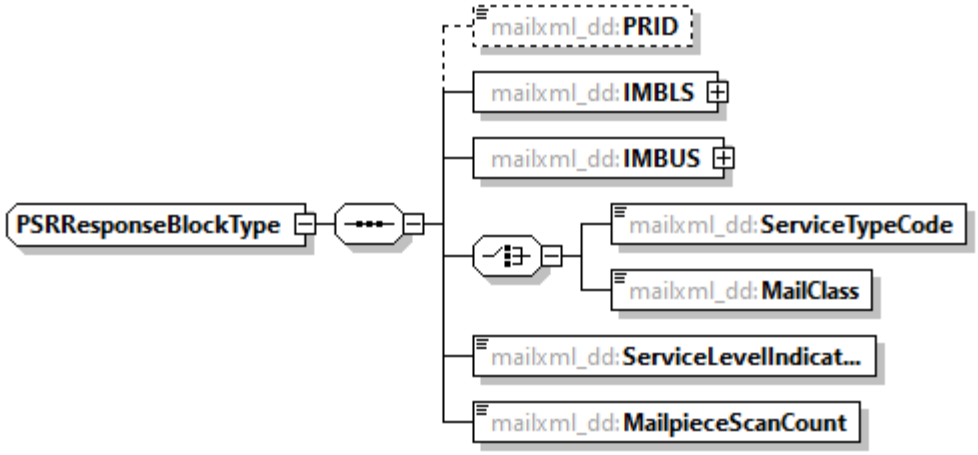
complexType **newAddressCorrectionAddressType**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml26.3/mailxml_dd

complexType **nonComplianceDataWithPostageOwedReportType**

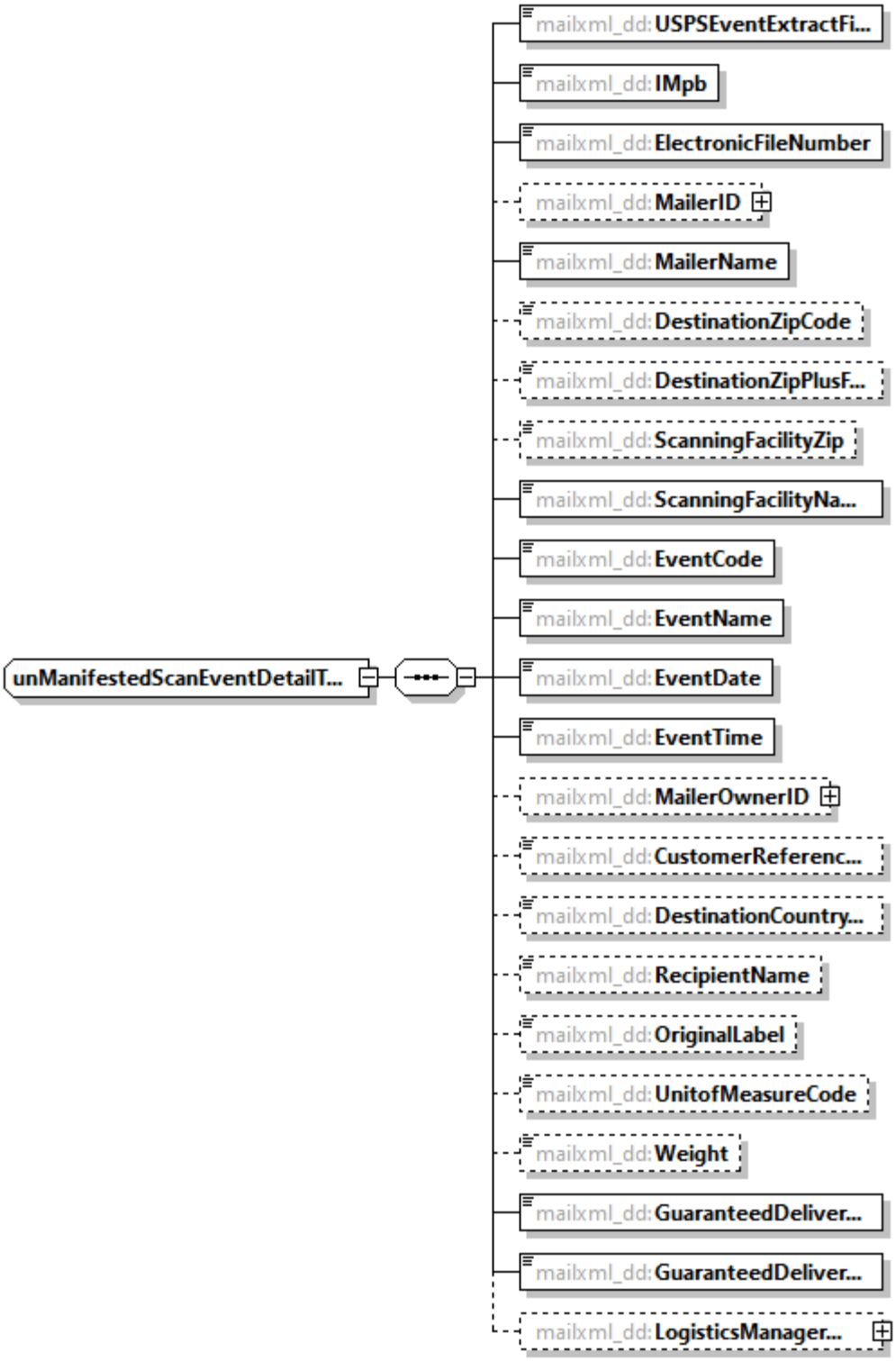
diagram	
namespace	http://delivery-tech.org/Specs/mailxml26.3/mailxml_dd

complexType **PSRResponseBlockType**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml26.3/mailxml_dd

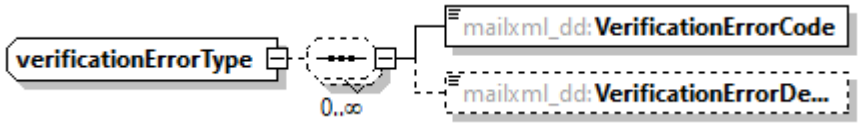
complexType **unManifestedScanEventDetailType**

diagram



namespace	http://delivery-tech.org/Specs/mailxml26.3/mailxml_dd

complexType **verificationErrorType**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml26.3/mailxml_dd

simpleType **addressCorrectionMoveType**

namespace	http://delivery-tech.org/Specs/mailxml26.3/mailxml_dd
type	restriction of **xs:string**

simpleType **addressTypeType**

namespace	http://delivery-tech.org/Specs/mailxml26.3/mailxml_dd
type	restriction of **xs:string**

simpleType **containerScanStateType**

namespace	http://delivery-tech.org/Specs/mailxml26.3/mailxml_dd
type	restriction of **xs:string**
annotation	documentation Scan data for Container Scan States

simpleType **deliverabilityCodeType**

namespace	http://delivery-tech.org/Specs/mailxml26.3/mailxml_dd
type	restriction of **xs:string**

simpleType **eDocTypeType**

namespace	http://delivery-tech.org/Specs/mailxml26.3/mailxml_dd
type	restriction of **xs:string**

simpleType **primarySecondaryIndicatorType**

namespace	http://delivery-tech.org/Specs/mailxml26.3/mailxml_dd
type	restriction of **xs:string**

simpleType **verificationErrorTypeType**

namespace	http://delivery-tech.org/Specs/mailxml26.3/mailxml_dd
type	restriction of **xs:string**

simpleType **verificationWarningTypeType**

namespace	http://delivery-tech.org/Specs/mailxml26.3/mailxml_dd
type	restriction of **xs:string**