Mail.XML Version 26.2

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 26.2?

With this release, the Mail.XML Messaging Protocol moves to Version 26.2. This release supports structure changes required by mailing industry and Postal Service.
Changes supported by Mail.XML 26.2 include:

- CR 2615 - Updating characteristicIncentiveType and adding FG for First-Class Growth Incentive Credit Redemption
- CR 2616 - Updating characteristicIncentiveType and adding MG for USPS Marketing Mail Growth Incentive Credit Redemption
- CR 2617 - Updating containerLevelType, and adding 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/mailxml26.2/mailxml"
targetNamespace="http://delivery-tech.org/Specs/mailxml26.2/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/mailxml26.2A/mailxml" then at least one of the XSDs is at same version such as filename ='Mail.XML_26.2A.xsd' <- Errata A

- If the wrapper version is labeled as xmlns:mailxml="http://deliverytech.org/Specs/mailxml26.2B/mailxml" then at least one of the XSDs is at same version such as filename ='Mail.XML_26.2B.xsd' <- Errata B

- If the wrapper version is labeled as xmlns:mailxml="http://deliverytech.org/Specs/mailxml26.2/mailxml" then at least one of the XSDs is at same version such as filename ='Mail.XML_26.2.xsd' <- Major Version

Mail.XML 26.2 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™ 26.2 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 26.2. Updates in this Specification are NOT backwardly compatible with previous versions. Other documents in the specification set include:

- Mail.XML™ 26.2: Transportation Messaging Specification documents all transportation messages
- Mail.XML™ 26.2: Mailing Messaging Specification documents all mailing messages
- Mail.XML™ 26.2: Informed Visibility Specification documents all informed visibility messages
- Mail.XML™ 26.2: Data Distribution Messaging Specification documents all data distribution messages
- Mail.XML™ 26.2: Identification Messaging Specification documents all identification messages
- Mail.XML™ 26.2: Supply Chain Messaging Specification documents all supply chain messages
- Mail.XML™ 26.2: System Messaging Specification documents all systems and fault messages
- Mail.XML™ 26.2: Simple Types Specification documents all simple types used across Mail.XML
- messages

- Mail.XML™ 26.2: Common Definitions Specification documents all shared elements and complex
- types.
- Mail.XML™ 26.2: Schemas contains the .XSDs that make up the Mail.XML Messaging Specification

Table of Contents

Schema mailxml_iv_26.2.xsd

schema location: C:\Users\NabilRahman\Desktop\XML SCHEMA UPDATE\26.2\Mail.XML 26.2\MailXML_26.2\XSDs\mailxml_iv_26.2.xsd
attributeFormDefault: **qualified**
elementFormDefault: **qualified**
targetNamespace: **http://delivery-tech.org/Specs/mailxml26.2/mailxml_iv**

Elements

- ContainerVisibilityDelivery
- ContainerVisibilityEntry
- ContainerVisibilityNotification
- ContainerVisibilityQueryRequest
- ContainerVisibilityQueryResponse
- IMbMailpieceScanData
- MPSVisDelivery
- MPSVisNotification
- MPSVisQueryRequest
- MPSVisQueryResponse
- StartTheClockBMEUBlock
- StartTheClockDelivery
- StartTheClockDropShipOrOrigin
- StartTheClockNotification
- StartTheClockPlantLoadBlock
- StartTheClockQueryRequest
- StartTheClockQueryResponse

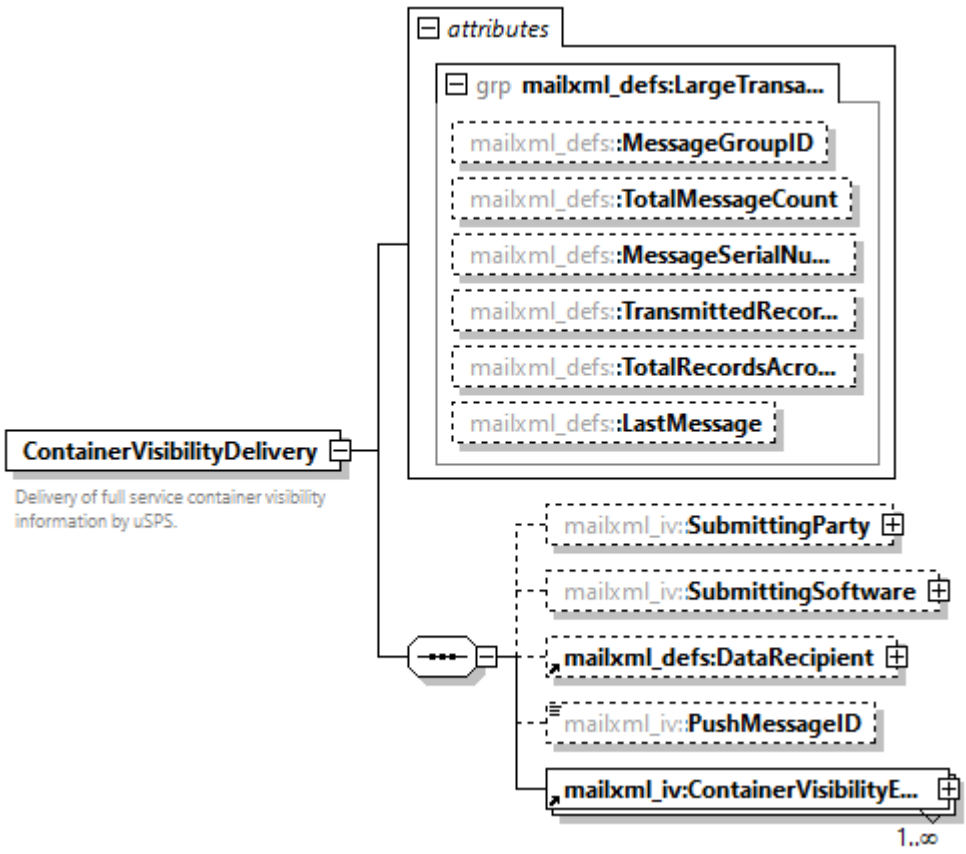
Complex types

- clockStartedType
- manifestScanEventDetailType
- manifestScanNotificationDataType
- manifestScanQueryType
- MPSNotificationDataType
- MPSRequestTypeType
- MPSVisScanQueryType
- PSRBlockType
- scanEventQueryTypeType
- ScanEventResultOptionsType

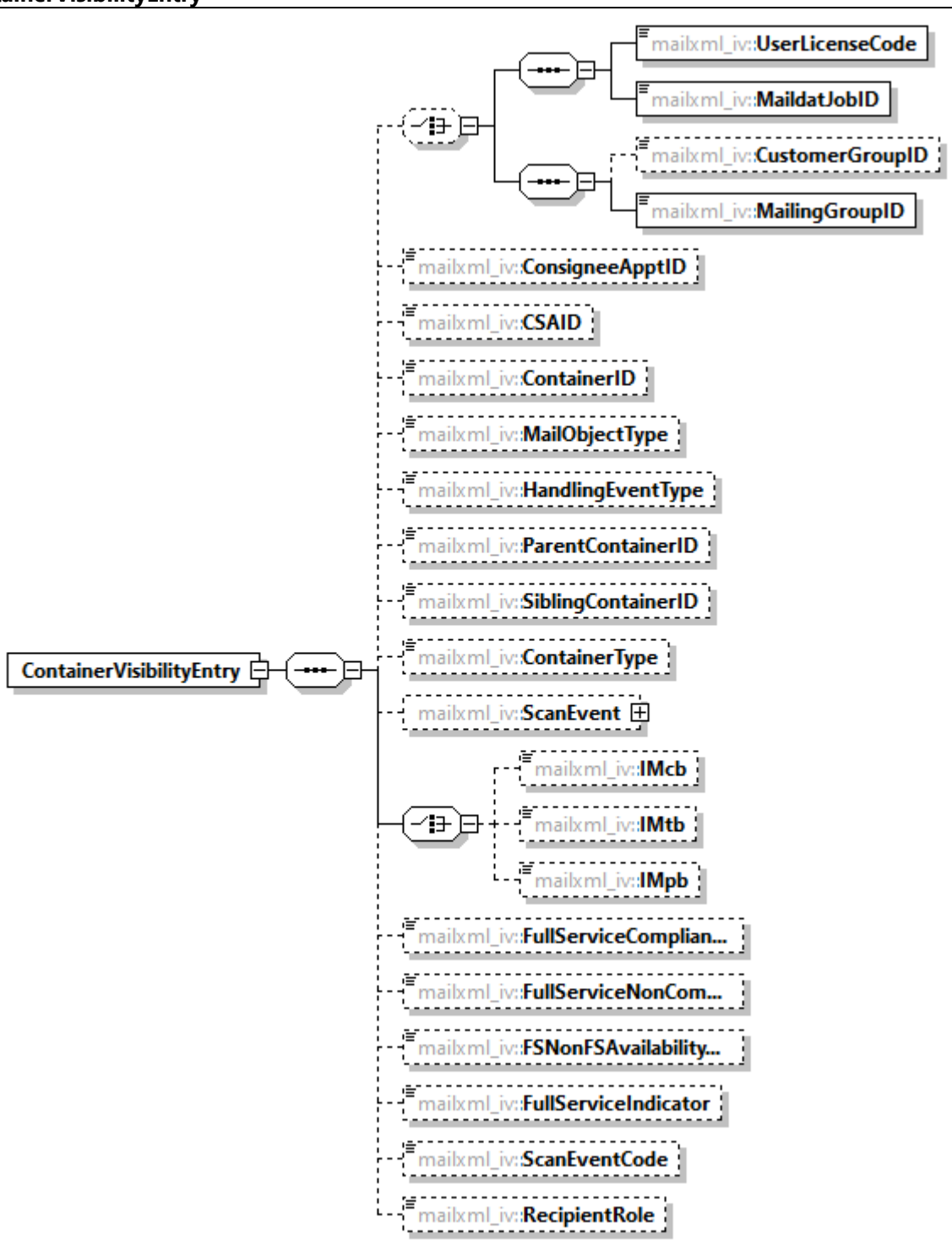
Simple types

- eDocTypeType
- handlingEventTypeType
- mailObjectTypeType
- recipientRoleType
- scanEventCodeType

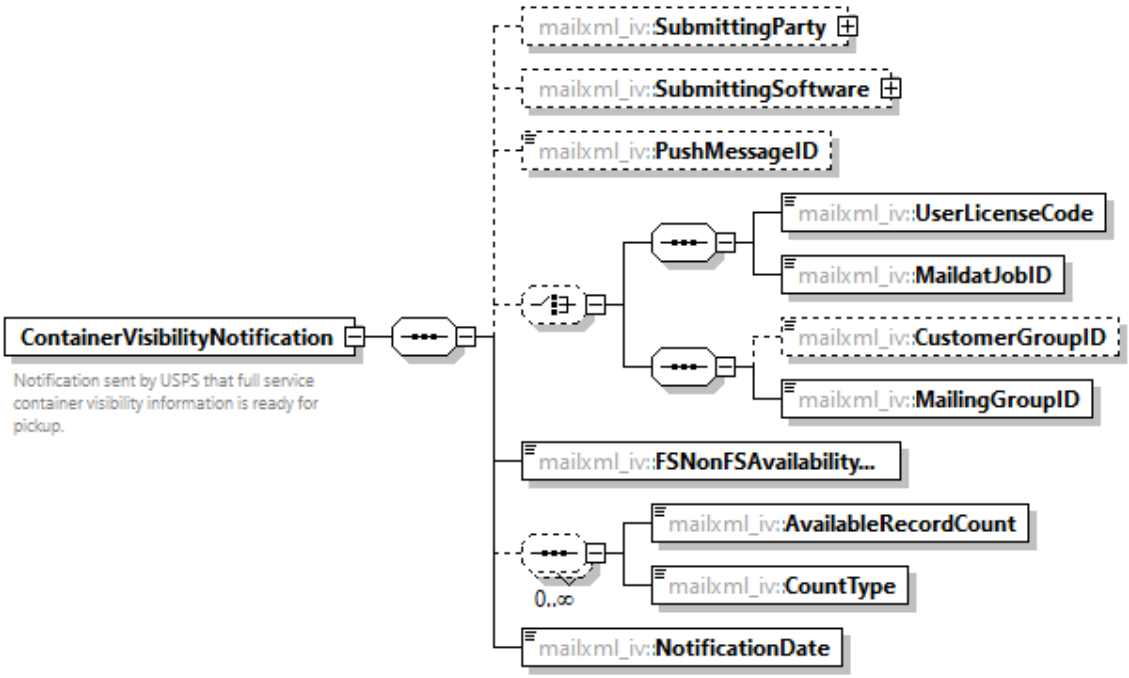
element **ContainerVisibilityDelivery**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml26.2/mailxml_iv
annotation	documentation Delivery of full service container visibility information by uSPS.

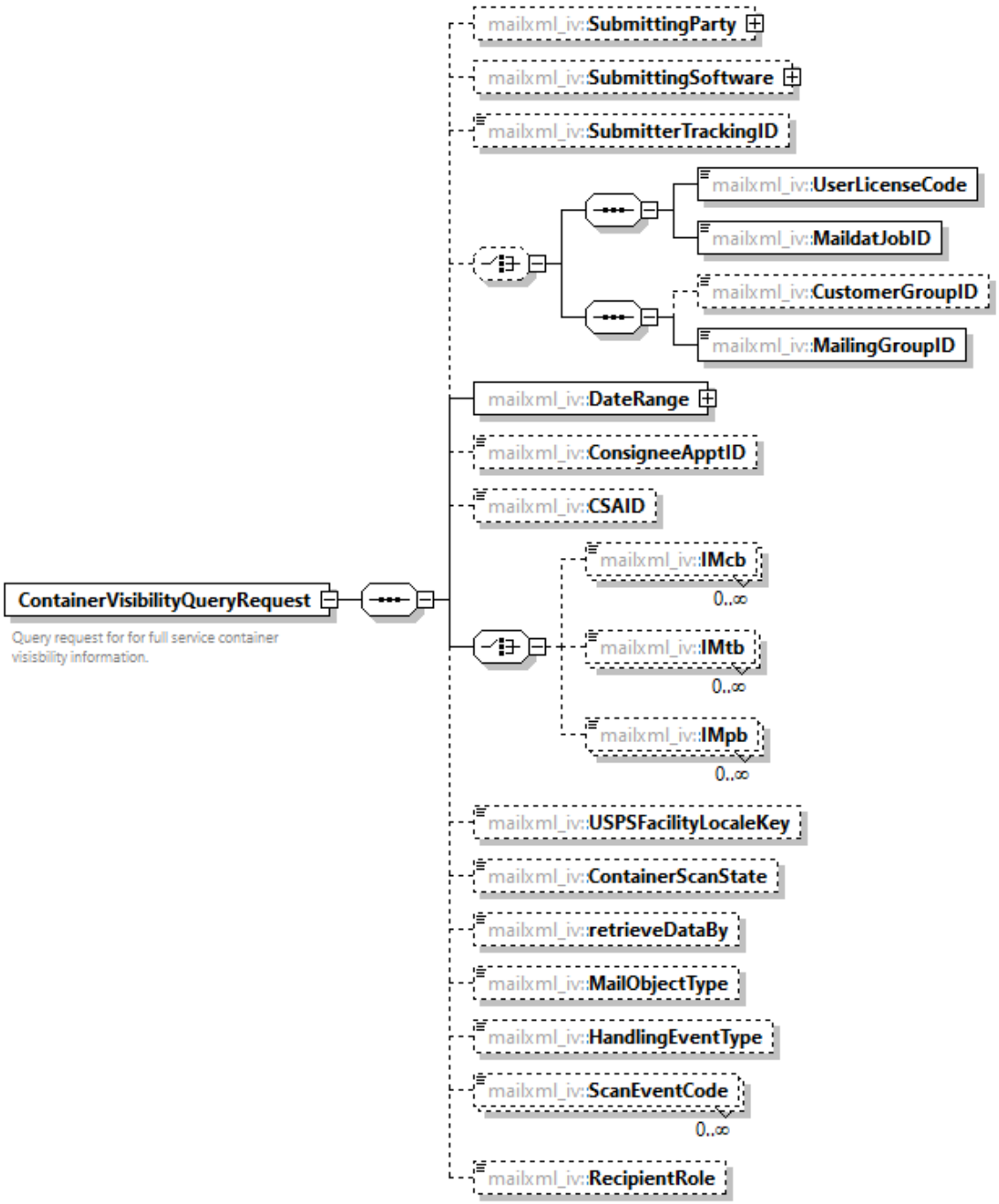
element **ContainerVisibilityEntry**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml26.2/mailxml_iv

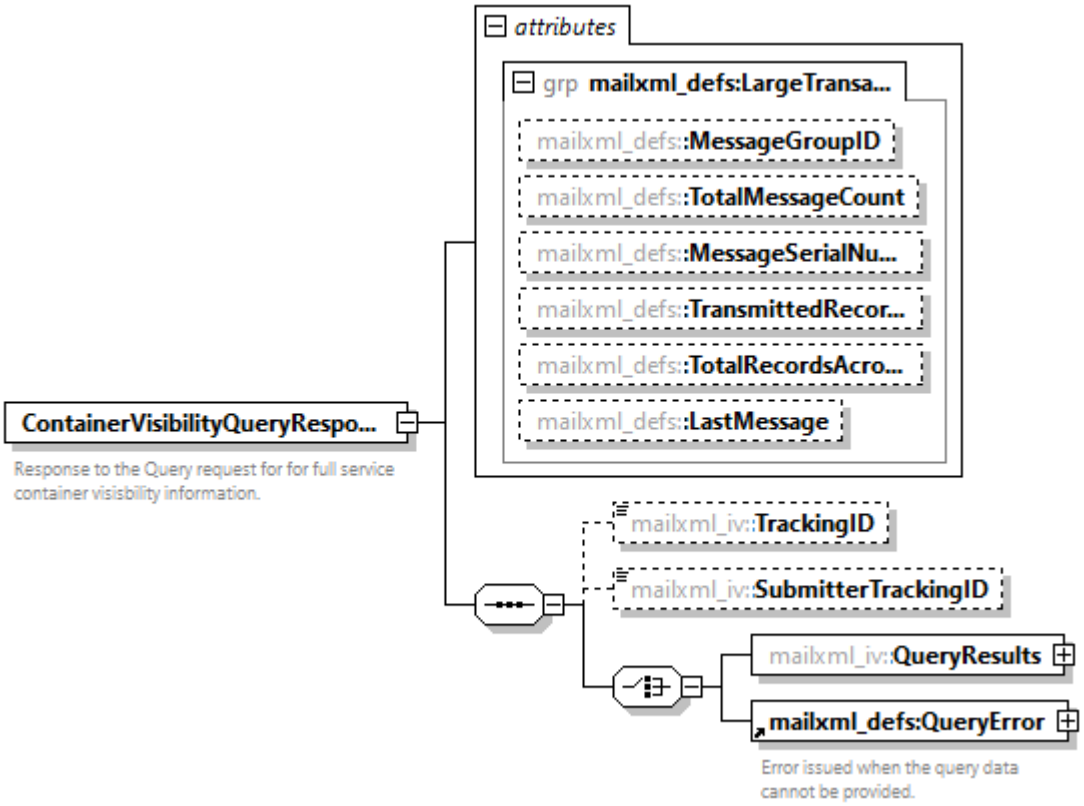
element **ContainerVisibilityNotification**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml26.2/mailxml_iv
annotation	documentation Notification sent by USPS that full service container visibility information is ready for pickup.

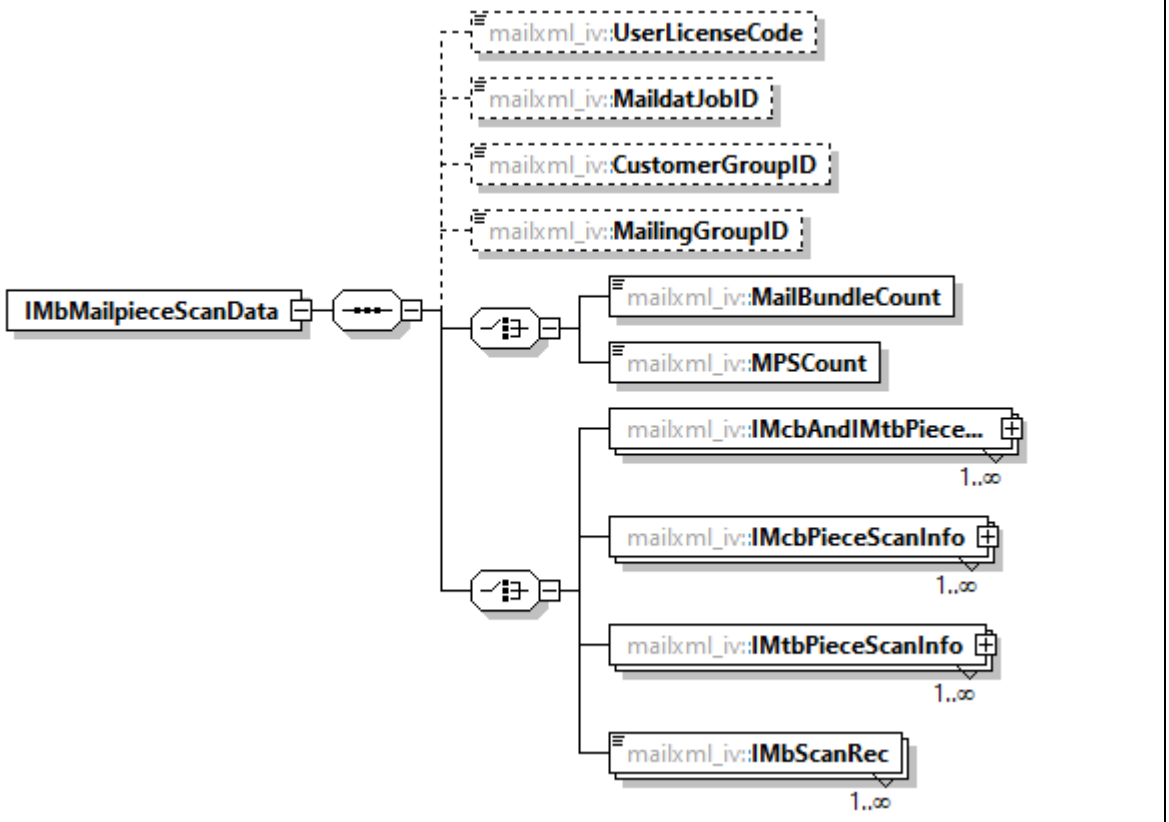
element **ContainerVisibilityQueryRequest**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml26.2/mailxml_iv
annotation	documentation Query request for for full service container visisbility information.

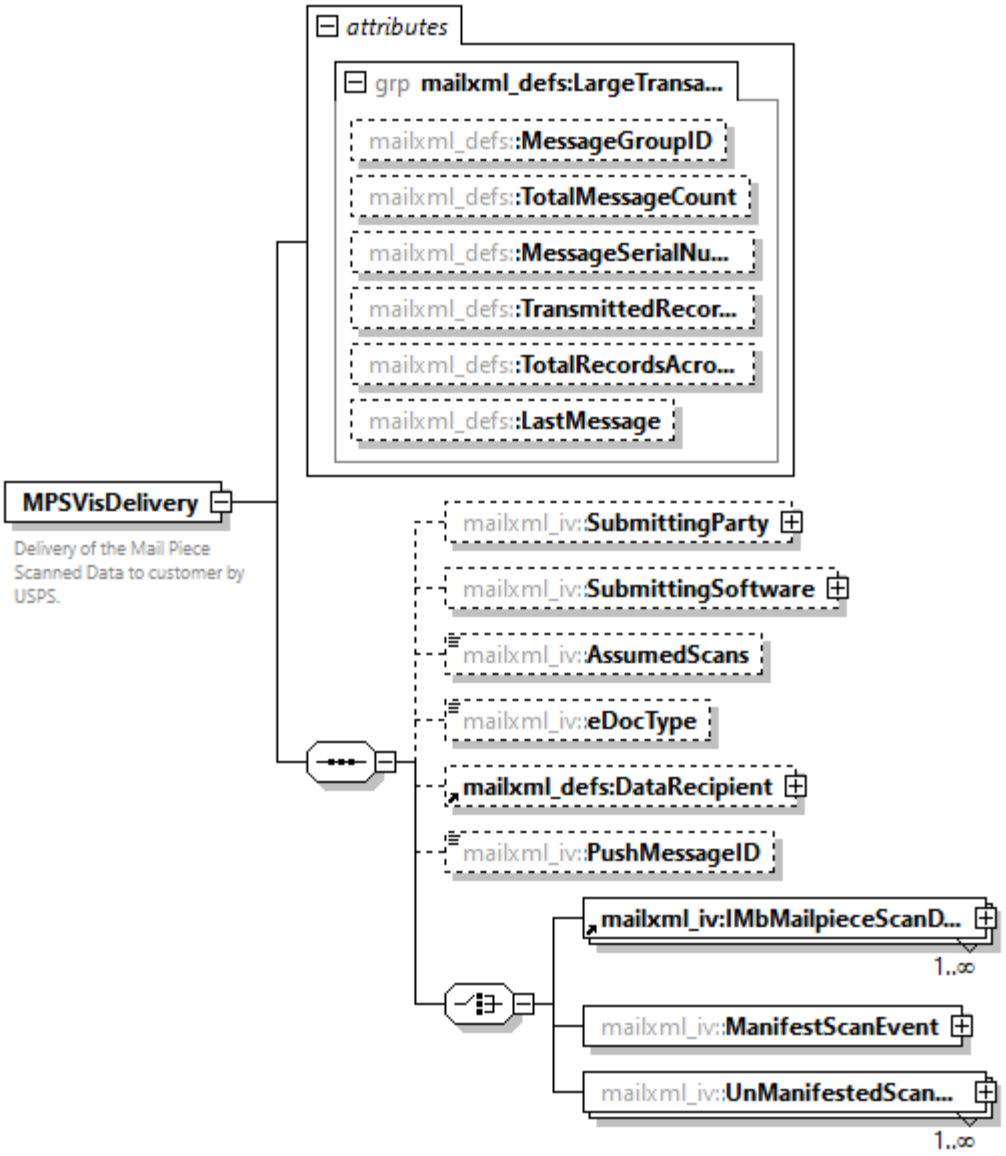
element **ContainerVisibilityQueryResponse**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml26.2/mailxml_iv
annotation	documentation Response to the Query request for for full service container visisbility information.

element **IMbMailpieceScanData**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml26.2/mailxml_iv

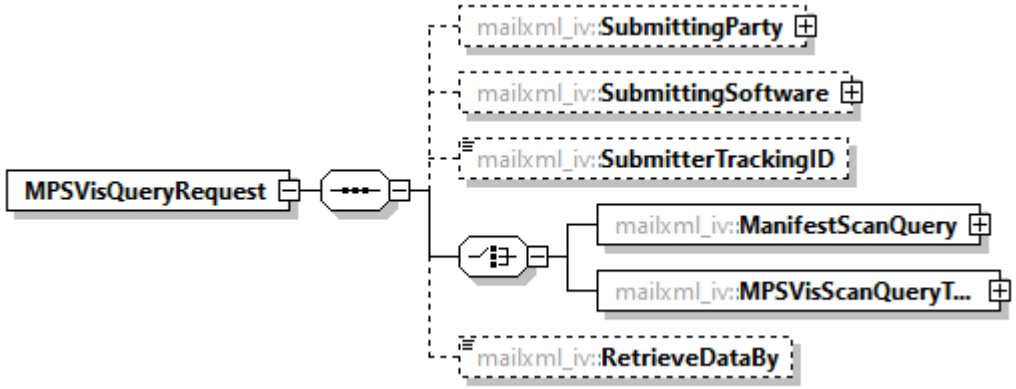
element **MPSVisDelivery**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml26.2/mailxml_iv
annotation	documentation Delivery of the Mail Piece Scanned Data to customer by USPS.

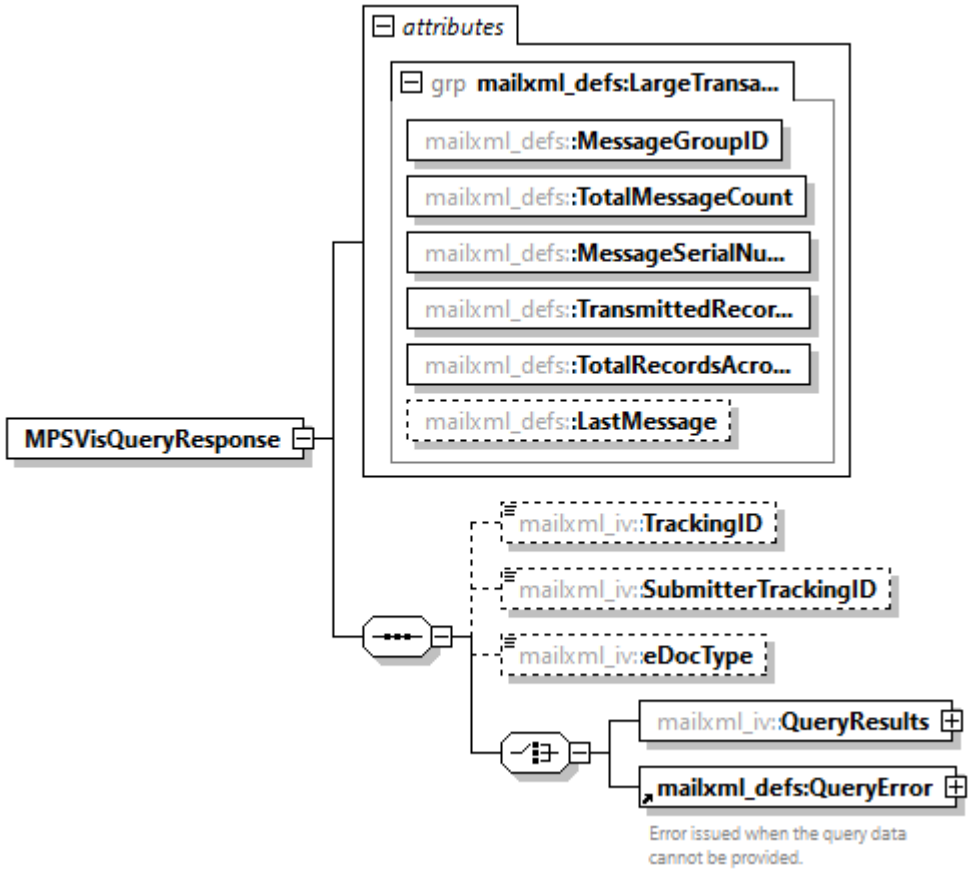
element **MPSVisNotification**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml26.2/mailxml_iv
annotation	documentation Notification from USPS that the Mail Piece Scanned Data is ready.

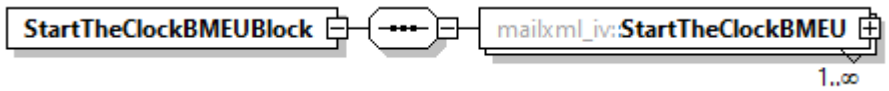
element **MPSVisQueryRequest**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml26.2/mailxml_iv

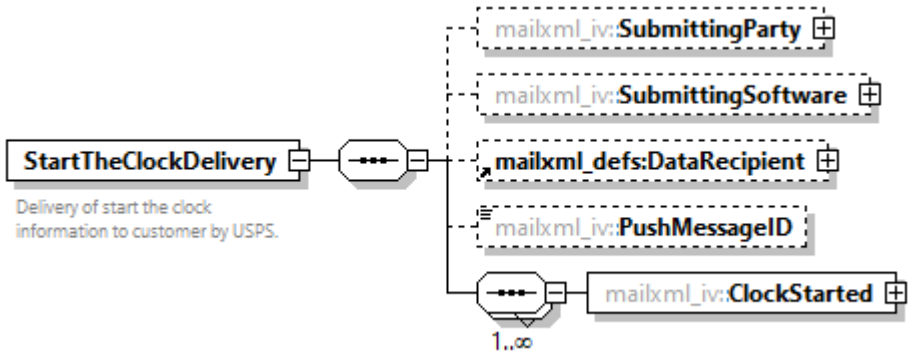
element **MPSVisQueryResponse**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml26.2/mailxml_iv

element **StartTheClockBMEUBlock**

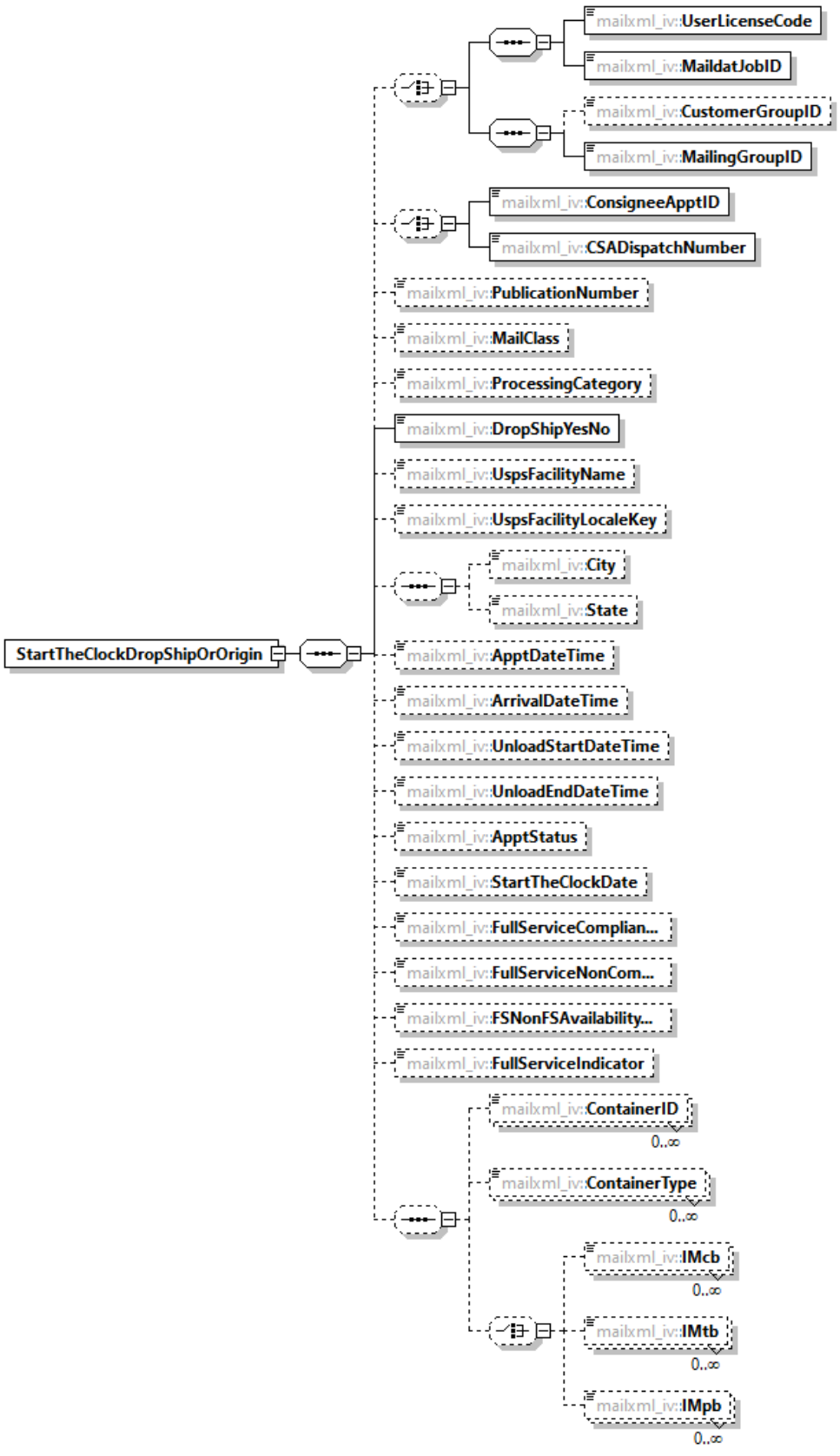
diagram	
namespace	http://delivery-tech.org/Specs/mailxml26.2/mailxml_iv

element **StartTheClockDelivery**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml26.2/mailxml_iv
annotation	documentation Delivery of start the clock information to customer by USPS.

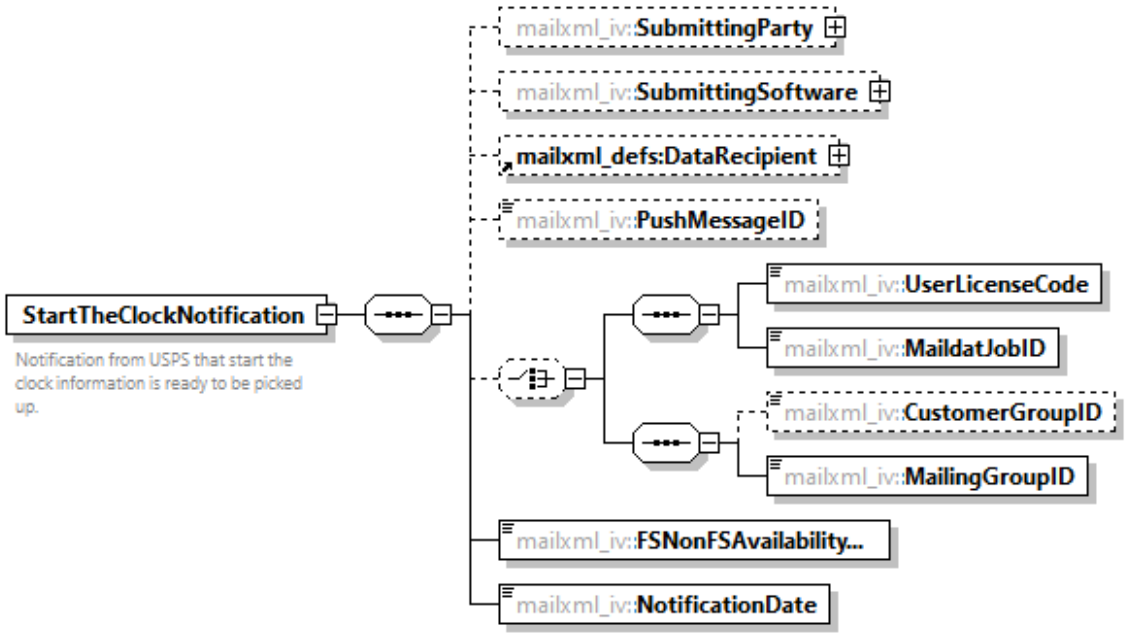
element **StartTheClockDropShipOrOrigin**

diagram

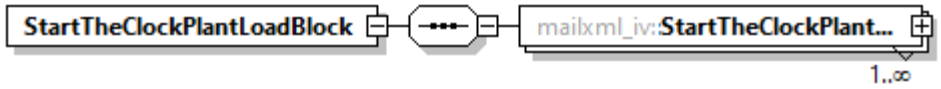

StartTheClockDropShipOrOrigin
mailxml_iv:UserLicenseCode
mailxml_iv:MaildatJobID
mailxml_iv:CustomerGroupID
mailxml_iv:MailingGroupID
mailxml_iv:ConsigneeApptID
mailxml_iv:CSADispatchNumber
mailxml_iv:PublicationNumber
mailxml_iv:MailClass
mailxml_iv:ProcessingCategory
mailxml_iv:DropShipYesNo
mailxml_iv:UspsFacilityName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

namespace	http://delivery-tech.org/Specs/mailxml26.2/mailxml_iv

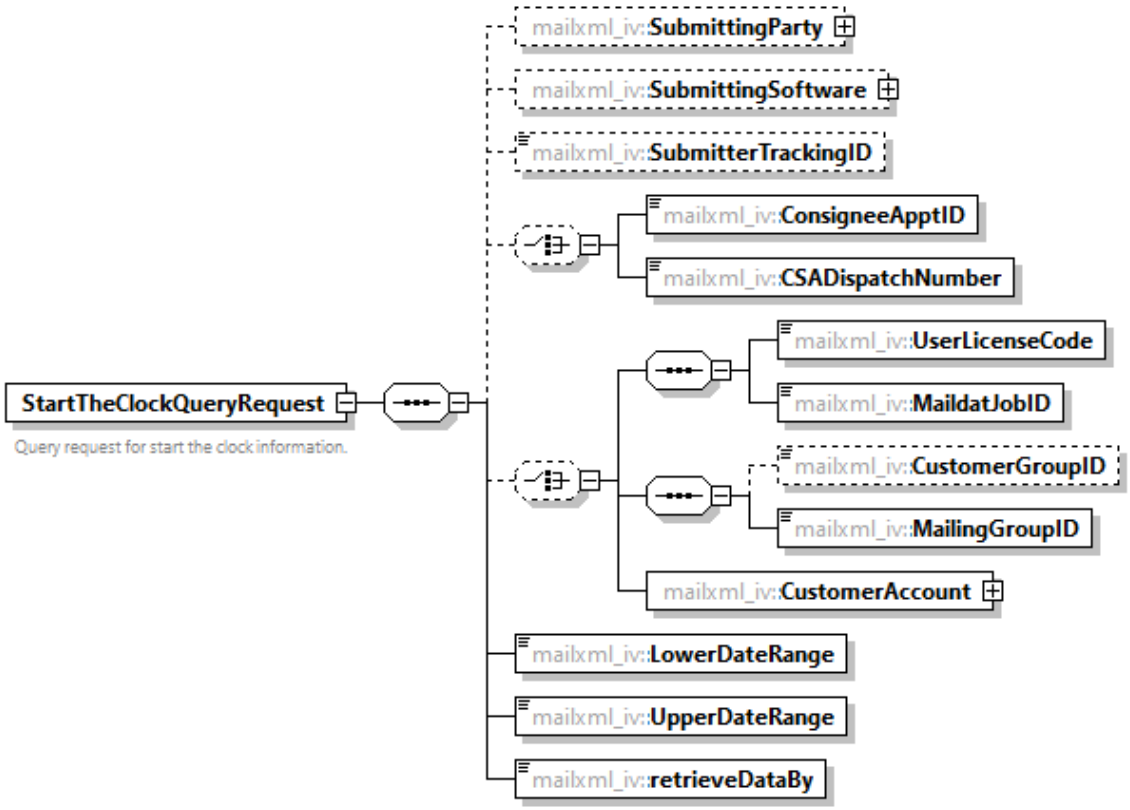
element **StartTheClockNotification**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml26.2/mailxml_iv
annotation	documentation Notification from USPS that start the clock information is ready to be picked up.

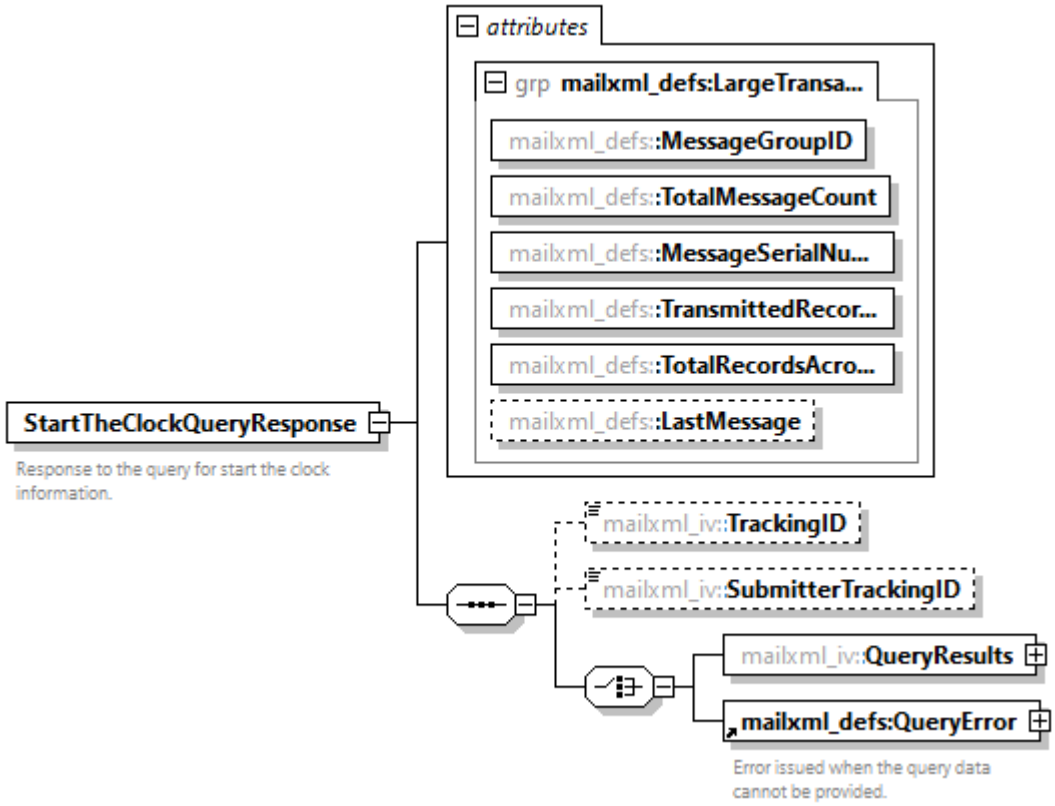
element **StartTheClockPlantLoadBlock**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml26.2/mailxml_iv

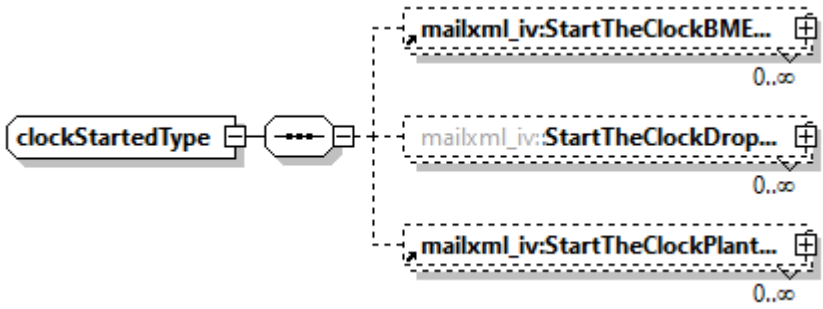
element **StartTheClockQueryRequest**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml26.2/mailxml_iv
annotation	documentation Query request for start the clock information.

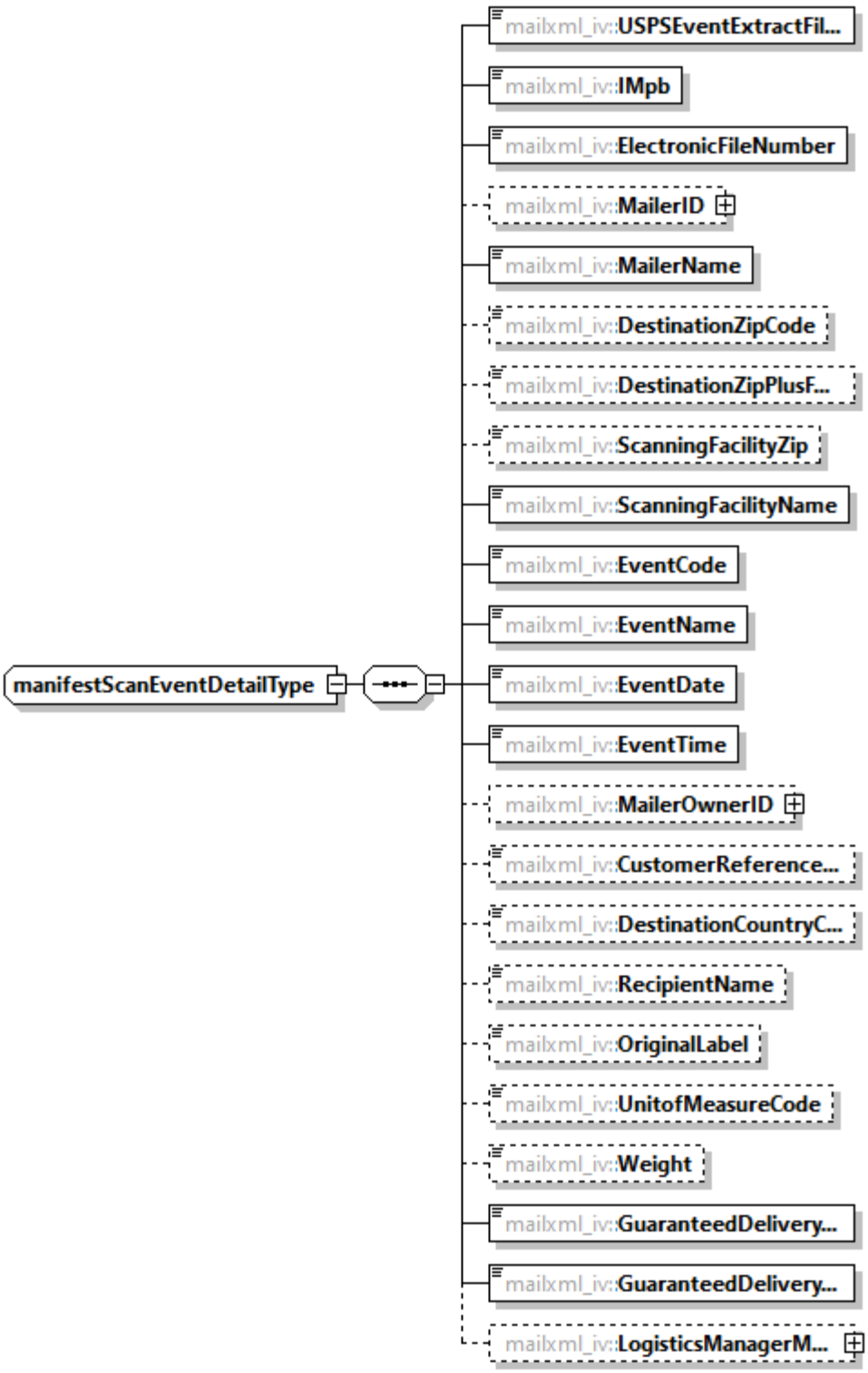
element **StartTheClockQueryResponse**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml26.2/mailxml_iv
annotation	documentation Response to the query for start the clock information.

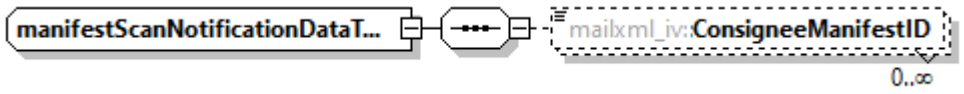
complexType **clockStartedType**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml26.2/mailxml_iv

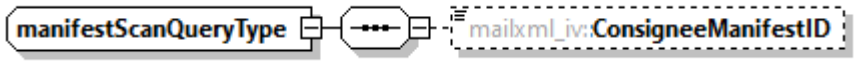
complexType **manifestScanEventDetailType**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml26.2/mailxml_iv

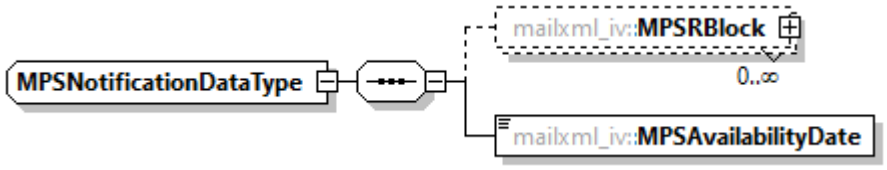
complexType **manifestScanNotificationDataType**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml26.2/mailxml_iv

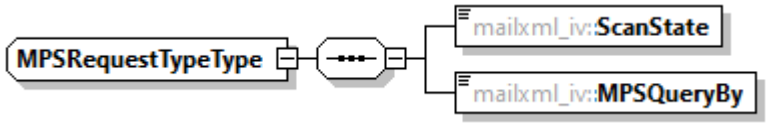
complexType **manifestScanQueryType**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml26.2/mailxml_iv

complexType **MPSNotificationDataType**

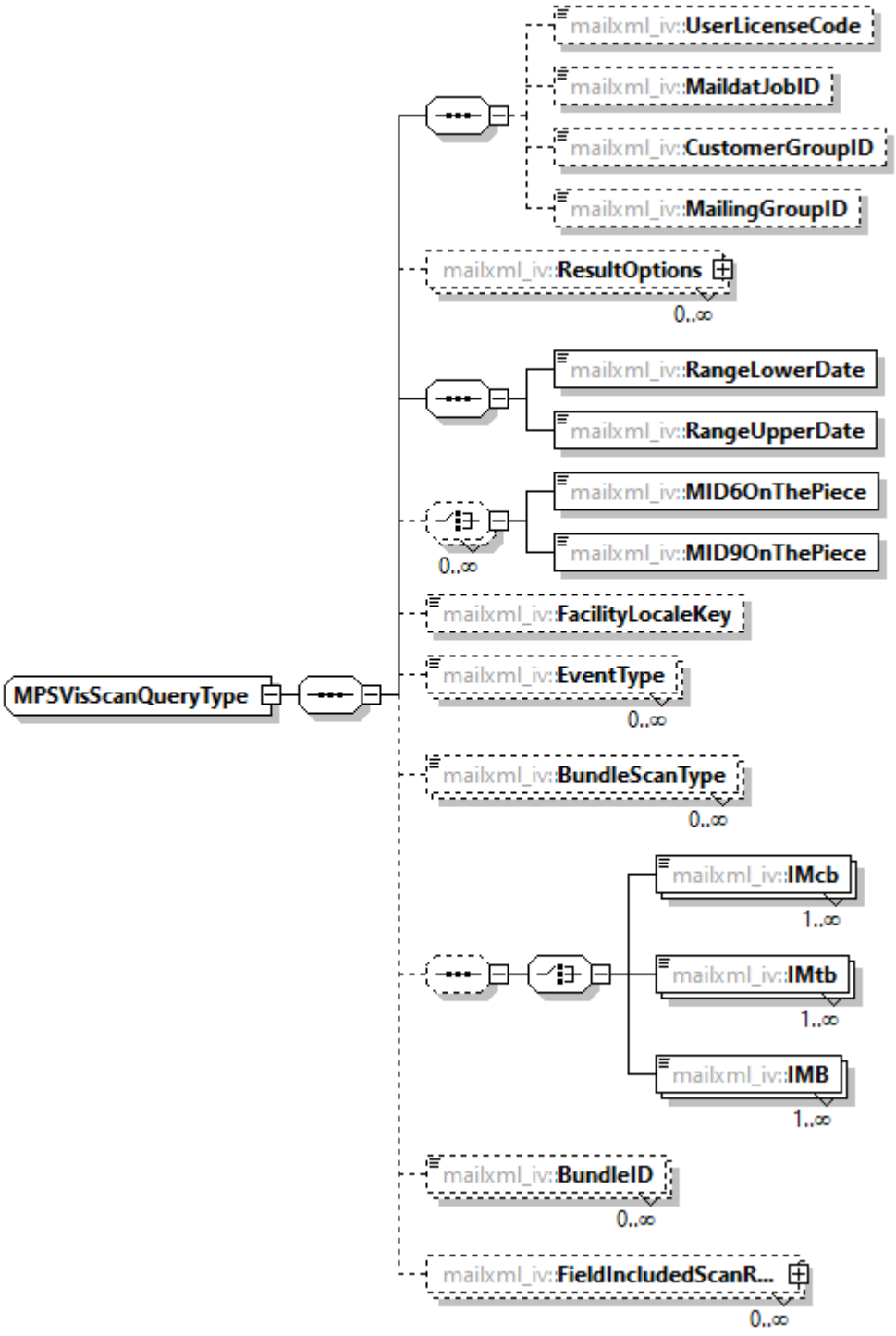
diagram	
namespace	http://delivery-tech.org/Specs/mailxml26.2/mailxml_iv

complexType **MPSRequestTypeType**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml26.2/mailxml_iv

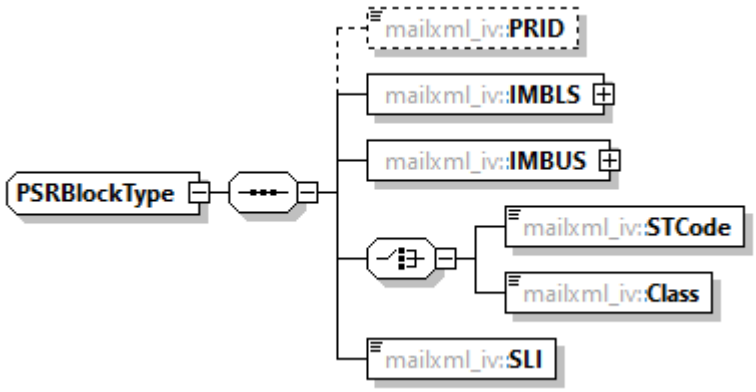
complexType **MPSVisScanQueryType**

diagram

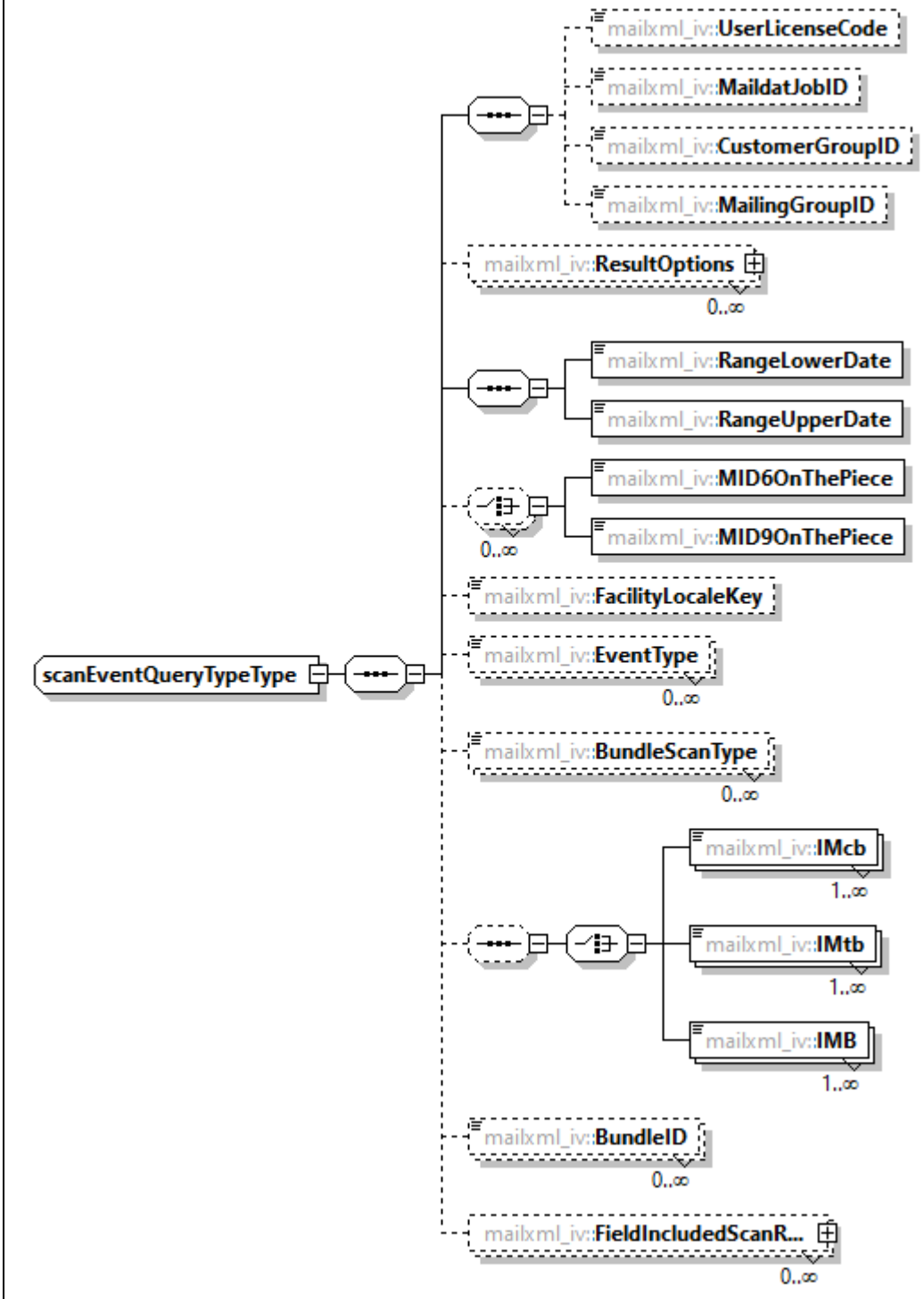


namespace	http://delivery-tech.org/Specs/mailxml26.2/mailxml_iv

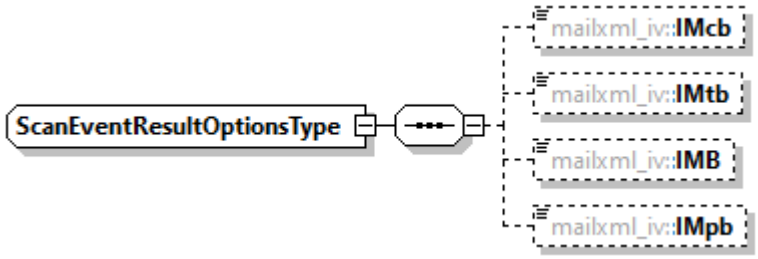
complexType **PSRBlockType**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml26.2/mailxml_iv

complexType **scanEventQueryTypeType**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml26.2/mailxml_iv

complexType **ScanEventResultOptionsType**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml26.2/mailxml_iv

simpleType **eDocTypeType**

namespace	http://delivery-tech.org/Specs/mailxml26.2/mailxml_iv
type	restriction of **xs:string**

simpleType **handlingEventTypeType**

namespace	http://delivery-tech.org/Specs/mailxml26.2/mailxml_iv
type	restriction of **xs:string**

simpleType **mailObjectTypeType**

namespace	http://delivery-tech.org/Specs/mailxml26.2/mailxml_iv
type	restriction of **xs:string**

simpleType **recipientRoleType**

namespace	http://delivery-tech.org/Specs/mailxml26.2/mailxml_iv
type	restriction of **xs:string**

simpleType **scanEventCodeType**

namespace	http://delivery-tech.org/Specs/mailxml26.2/mailxml_iv
type	restriction of **xs:string**