

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.

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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 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

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Schema mailxml_iv_26.3.xsd	8

Schema mailxml_iv_26.3.xsd

schema location: <..\XSDs\mailxml iv 26.3.xsd>
attributeFormDefault: **qualified**
elementFormDefault: **qualified**
targetNamespace: **http://delivery-tech.org/Specs/mailxml26.3/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

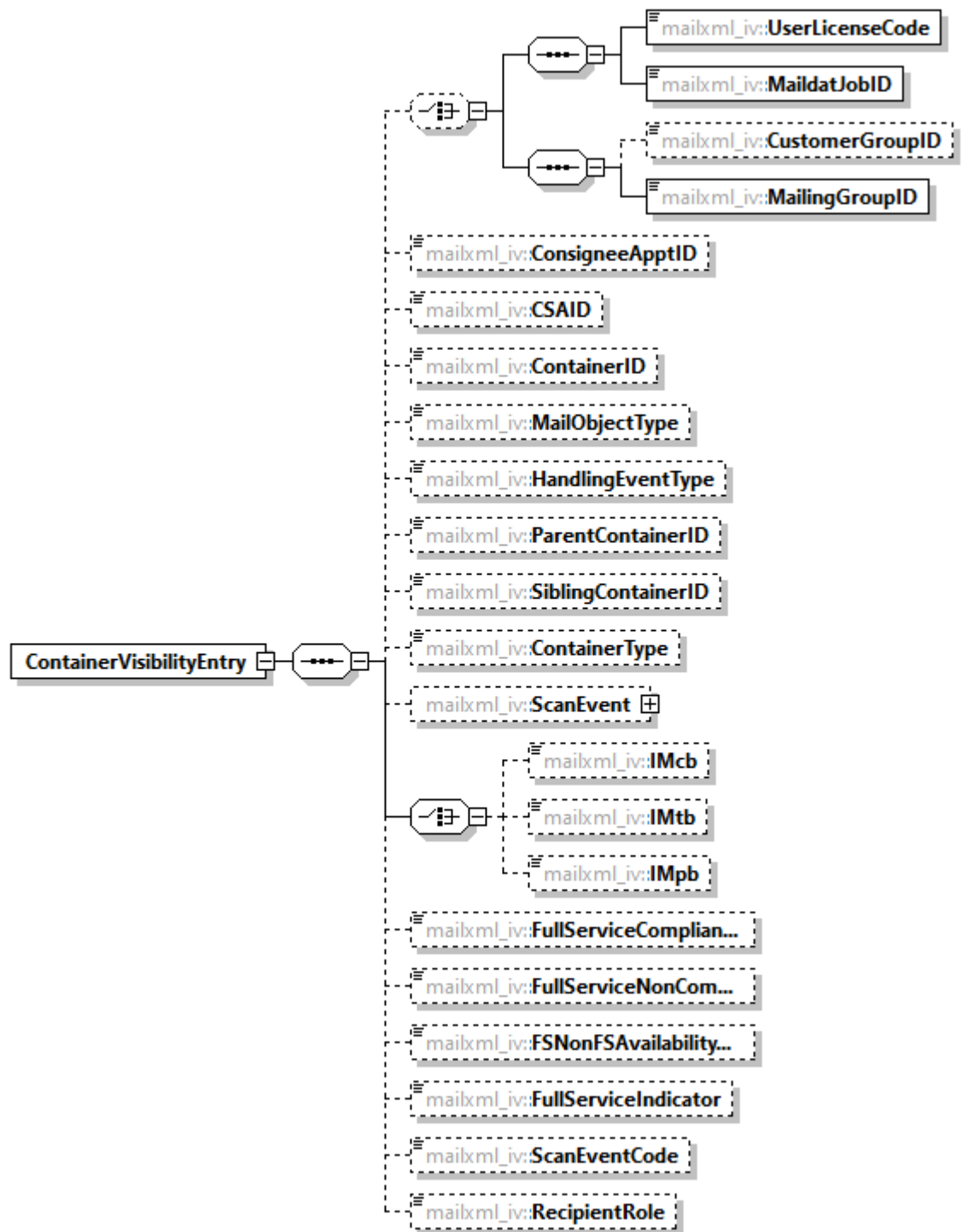
[**eDocTypeType**](#)
[**handlingEventTypeType**](#)
[**mailObjectTypeType**](#)
[**recipientRoleType**](#)
[**scanEventCodeType**](#)

element **ContainerVisibilityDelivery**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml26.3/mailxml_iv
annotation	<p>documentation</p> <p>Delivery of full service container visibility information by uSPS.</p>

element **ContainerVisibilityEntry**

diagram



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

element **ContainerVisibilityNotification**

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

element **ContainerVisibilityQueryRequest**

<p>diagram</p>	<pre> xsd:element base="base" name="ContainerVisibilityQueryRequest"> <p>Query request for for full service container visibility information.</p> <div> mailxml_iv:SubmittingParty mailxml_iv:SubmittingSoftware mailxml_iv:SubmitterTrackingID <div> mailxml_iv:UserLicenseCode mailxml_iv:MaildatJobID mailxml_iv:CustomerGroupID mailxml_iv:MailingGroupID </div> mailxml_iv:DateRange mailxml_iv:ConsigneeApptID mailxml_iv:CSAID <div> mailxml_iv:IMcb mailxml_iv:IMtb mailxml_iv:IMpb </div> mailxml_iv:USPSFacilityLocaleKey mailxml_iv:ContainerScanState mailxml_iv:retrieveDataBy mailxml_iv:MailObjectType mailxml_iv:HandlingEventType mailxml_iv:ScanEventCode mailxml_iv:RecipientRole </div> </pre>
----------------	---

element **ContainerVisibilityQueryResponse**

diagram	<p>ContainerVisibilityQueryRespo... Response to the Query request for for full service container visibility information.</p> <p>attributes</p> <p>grp mailxml_defs:LargeTransa...</p> <ul style="list-style-type: none"> mailxml_defs:MessageGroupID mailxml_defs:TotalMessageCount mailxml_defs:MessageSerialNu... mailxml_defs:TransmittedRecor... mailxml_defs:TotalRecordsAcro... mailxml_defs:LastMessage <p>mailxml_iv:TrackingID</p> <p>mailxml_iv:SubmitterTrackingID</p> <p>mailxml_iv:QueryResults</p> <p>mailxml_defs:QueryError Error issued when the query data cannot be provided.</p>
namespace	http://delivery-tech.org/Specs/mailxml26.3/mailxml_iv
annotation	<p>documentation</p> <p>Response to the Query request for for full service container visibility information.</p>


element **IMbMailpieceScanData**

diagram	<pre> xsd:element name="IMbMailpieceScanData"> attribute mailxml_iv:UserLicenseCode type="string" use="optional"/> attribute mailxml_iv:MaildatJobID type="string" use="optional"/> attribute mailxml_iv:CustomerGroupID type="string" use="optional"/> attribute mailxml_iv:MailingGroupID type="string" use="optional"/> choice base="true"> complexType> attribute mailxml_iv:MailBundleCount type="string" use="optional"/> attribute mailxml_iv:MPSCount type="string" use="optional"/> complexType> element mailxml_iv:IMcbAndIMtbPiece... type="string" use="optional" minOccurs="1" maxOccurs="∞"/> element mailxml_iv:IMcbPieceScanInfo type="string" use="optional" minOccurs="1" maxOccurs="∞"/> element mailxml_iv:IMtbPieceScanInfo type="string" use="optional" minOccurs="1" maxOccurs="∞"/> element mailxml_iv:IMbScanRec type="string" use="optional" minOccurs="1" maxOccurs="∞"/> </pre>
namespace	http://delivery-tech.org/Specs/mailxml26.3/mailxml_iv

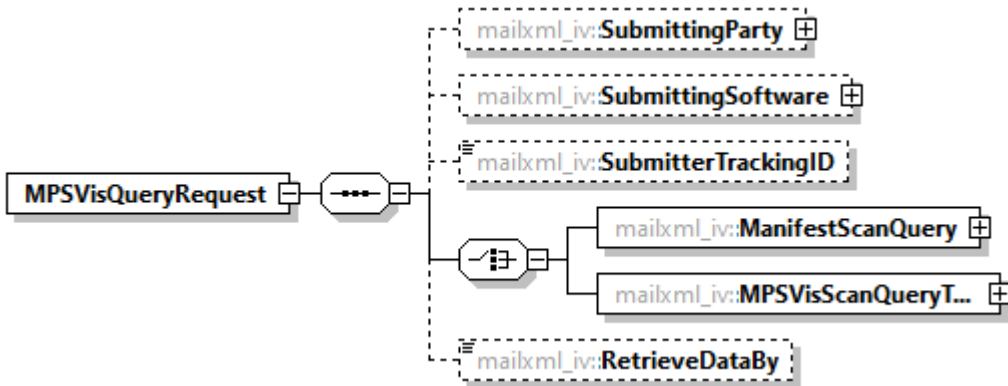
element **MPSVisDelivery**

diagram	<p>MPSVisDelivery Delivery of the Mail Piece Scanned Data to customer by USPS.</p> <p>attributes</p> <ul style="list-style-type: none"> grp mailxml_defs:LargeTransa... <ul style="list-style-type: none"> mailxml_defs::MessageGroupID mailxml_defs::TotalMessageCount mailxml_defs::MessageSerialNu... mailxml_defs::TransmittedRecor... mailxml_defs::TotalRecordsAcro... mailxml_defs::LastMessage <p>Sequence of elements:</p> <ul style="list-style-type: none"> mailxml_iv::SubmittingParty mailxml_iv::SubmittingSoftware mailxml_iv::AssumedScans mailxml_iv::eDocType mailxml_defs::DataRecipient mailxml_iv::PushMessageID <p>Choice of elements:</p> <ul style="list-style-type: none"> mailxml_iv::IMbMailpieceScanD... (1..∞) mailxml_iv::ManifestScanEvent mailxml_iv::UnManifestedScan... (1..∞)
namespace	http://delivery-tech.org/Specs/mailxml26.3/mailxml_iv
annotation	<p>documentation</p> <p>Delivery of the Mail Piece Scanned Data to customer by USPS.</p>

element **MPSVisNotification**

diagram	 <p>The diagram shows the structure of the MPSVisNotification element. It is a container element with a dashed border and a plus icon. Inside, there is a sequence of elements: mailxml_iv:SubmittingParty, mailxml_iv:SubmittingSoftware, mailxml_iv:AssumedScans, mailxml_iv:eDocType, mailxml_defs:DataRecipient, mailxml_iv:PushMessageID, mailxml_iv:UserLicenseCode, mailxml_iv:MaildatJobID, mailxml_iv:CustomerGroupID, mailxml_iv:MailingGroupID, mailxml_iv:AvailableRecordCount, and mailxml_iv:NotificationDate. These are followed by a choice element (indicated by a circle with a vertical line) containing two elements: mailxml_iv:MPSNotificationData and mailxml_iv:ManifestScanNotifi....</p>
namespace	http://delivery-tech.org/Specs/mailxml26.3/mailxml_iv
annotation	<p>documentation</p> <p>Notification from USPS that the Mail Piece Scanned Data is ready.</p>

element **MPSVisQueryRequest**

diagram	 <p>The diagram shows the structure of the MPSVisQueryRequest element. It is a container element with a dashed border and a plus icon. Inside, there is a sequence of elements: mailxml_iv:SubmittingParty, mailxml_iv:SubmittingSoftware, and mailxml_iv:SubmitterTrackingID. These are followed by a choice element (indicated by a circle with a vertical line) containing two elements: mailxml_iv:ManifestScanQuery and mailxml_iv:MPSVisScanQueryT.... Finally, there is an element mailxml_iv:RetrieveDataBy.</p>
namespace	http://delivery-tech.org/Specs/mailxml26.3/mailxml_iv

element **MPSVisQueryResponse**

diagram	<p>The diagram illustrates the structure of the MPSVisQueryResponse element. It features a main box labeled MPSVisQueryResponse with a small square connector on its right side. A line extends from this connector to a large rectangular container. Inside this container, there is a sub-section titled attributes (indicated by a small square icon). Within the attributes section, there is a group box labeled grp mailxml_defs:LargeTransa.... This group contains several attribute boxes: mailxml_defs:MessageGroupID, mailxml_defs:TotalMessageCount, mailxml_defs:MessageSerialNu..., mailxml_defs:TransmittedRecor..., mailxml_defs:TotalRecordsAcro..., and mailxml_defs:LastMessage (which is enclosed in a dashed border). Below the attributes section, a line leads to a circle containing three dots. From this circle, a line branches out to three dashed boxes: mailxml_iv:TrackingID, mailxml_iv:SubmitterTrackingID, and mailxml_iv:eDocType. Another line from the circle leads to a circle containing a plus sign. This circle branches out to two solid boxes: mailxml_iv:QueryResults and mailxml_defs:QueryError. Below the QueryError box, there is a note: "Error issued when the query data cannot be provided."</p>
namespace	http://delivery-tech.org/Specs/mailxml26.3/mailxml_iv

element **StartTheClockBMEUBlock**

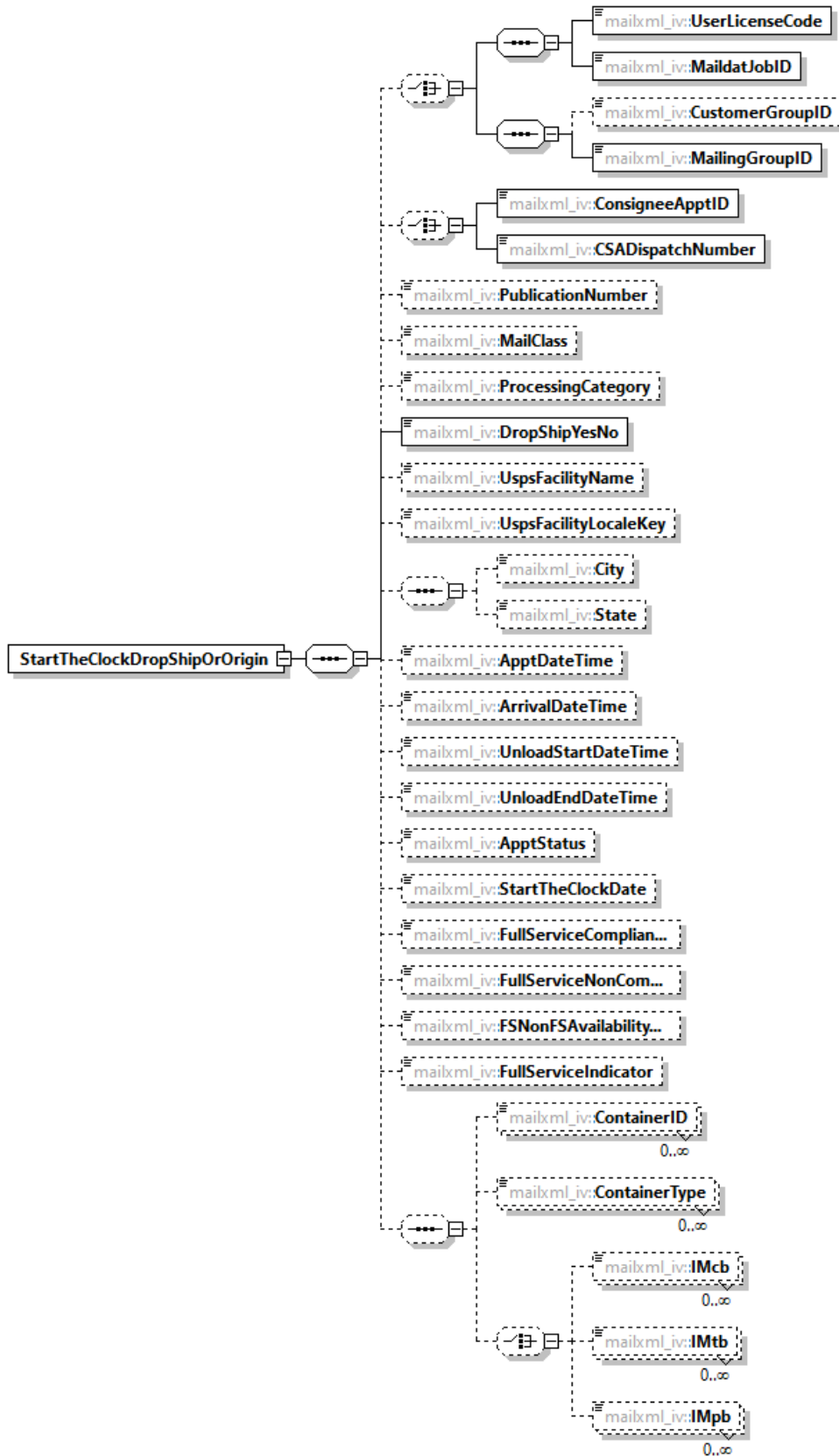
diagram	<p>The diagram shows the structure of the StartTheClockBMEUBlock element. It consists of a box labeled StartTheClockBMEUBlock with a small square connector on its right side. A line extends from this connector to a circle containing three dots. From this circle, a line leads to a box labeled mailxml_iv:StartTheClockBMEU with a small square connector on its right side. Below the mailxml_iv:StartTheClockBMEU box, there is a note: "1..∞".</p>
namespace	http://delivery-tech.org/Specs/mailxml26.3/mailxml_iv

element **StartTheClockDelivery**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml26.3/mailxml_iv
annotation	<p>documentation</p> <p>Delivery of start the clock information to customer by USPS.</p>

element **StartTheClockDropShipOrOrigin**

diagram



namespace	http://delivery-tech.org/Specs/mailxml26.3/mailxml_iv
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element **StartTheClockNotification**

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

element **StartTheClockQueryRequest**

diagram	<pre> xsd:element name="StartTheClockQueryRequest" base="base" namespace="http://delivery-tech.org/Specs/mailxml26.3/mailxml_iv"> <div>Query request for start the clock information.</div> <div> mailxml_iv:SubmittingParty mailxml_iv:SubmittingSoftware mailxml_iv:SubmitterTrackingID choice mailxml_iv:ConsigneeApptID mailxml_iv:CSADispatchNumber choice choice mailxml_iv:UserLicenseCode mailxml_iv:MaidatJobID mailxml_iv:CustomerGroupID mailxml_iv:MailingGroupID mailxml_iv:CustomerAccount mailxml_iv:LowerDateRange mailxml_iv:UpperDateRange mailxml_iv:retrieveDataBy </div> </pre>
namespace	http://delivery-tech.org/Specs/mailxml26.3/mailxml_iv
annotation	documentation Query request for start the clock information.

element **StartTheClockQueryResponse**

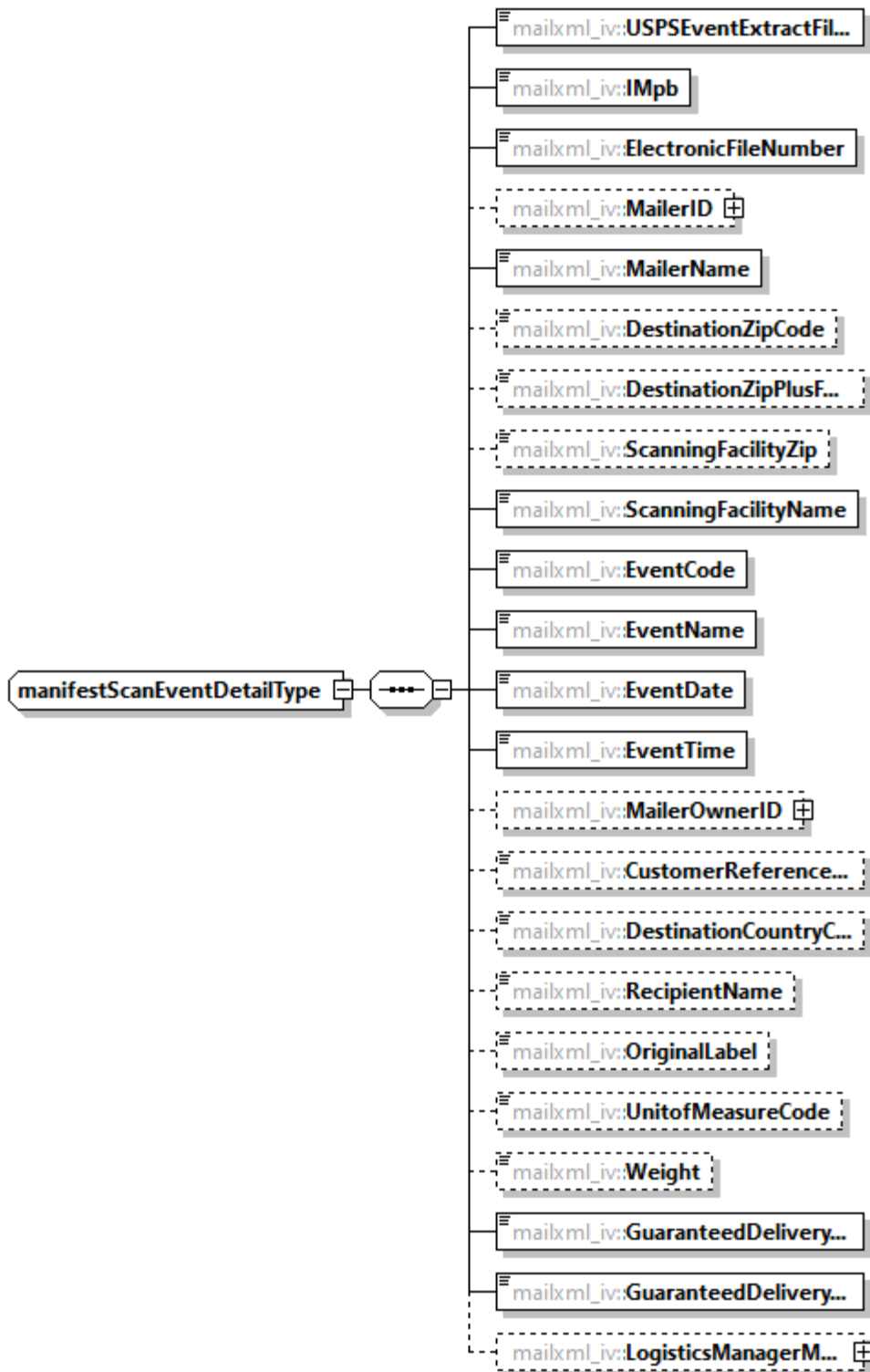
diagram	
namespace	http://delivery-tech.org/Specs/mailxml26.3/mailxml_iv
annotation	<p>documentation</p> <p>Response to the query for start the clock information.</p>

complexType **clockStartedType**

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

complexType **manifestScanEventDetailType**

diagram



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

complexType **manifestScanNotificationDataType**

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

complexType **manifestScanQueryType**

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

complexType **MPSNotificationDataType**

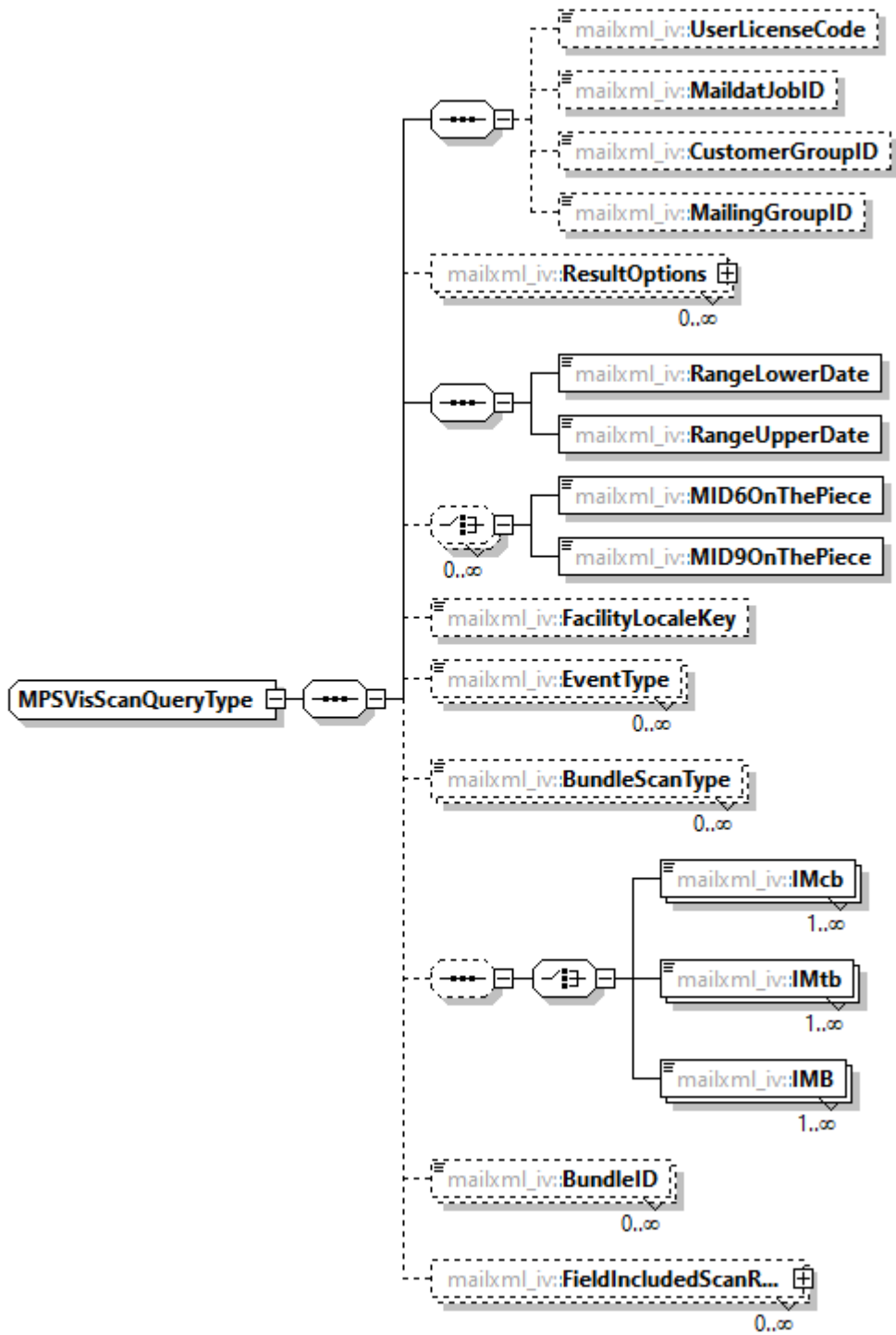
diagram	
namespace	http://delivery-tech.org/Specs/mailxml26.3/mailxml_iv

complexType **MPSRequestTypeType**

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

complexType **MPSVisScanQueryType**

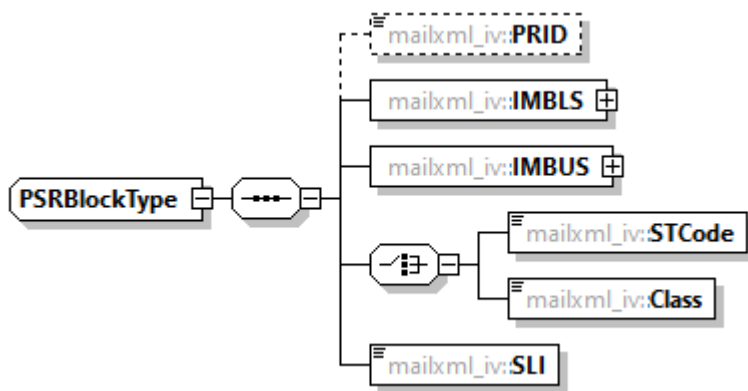
diagram



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

complexType **PSRBlockType**

diagram

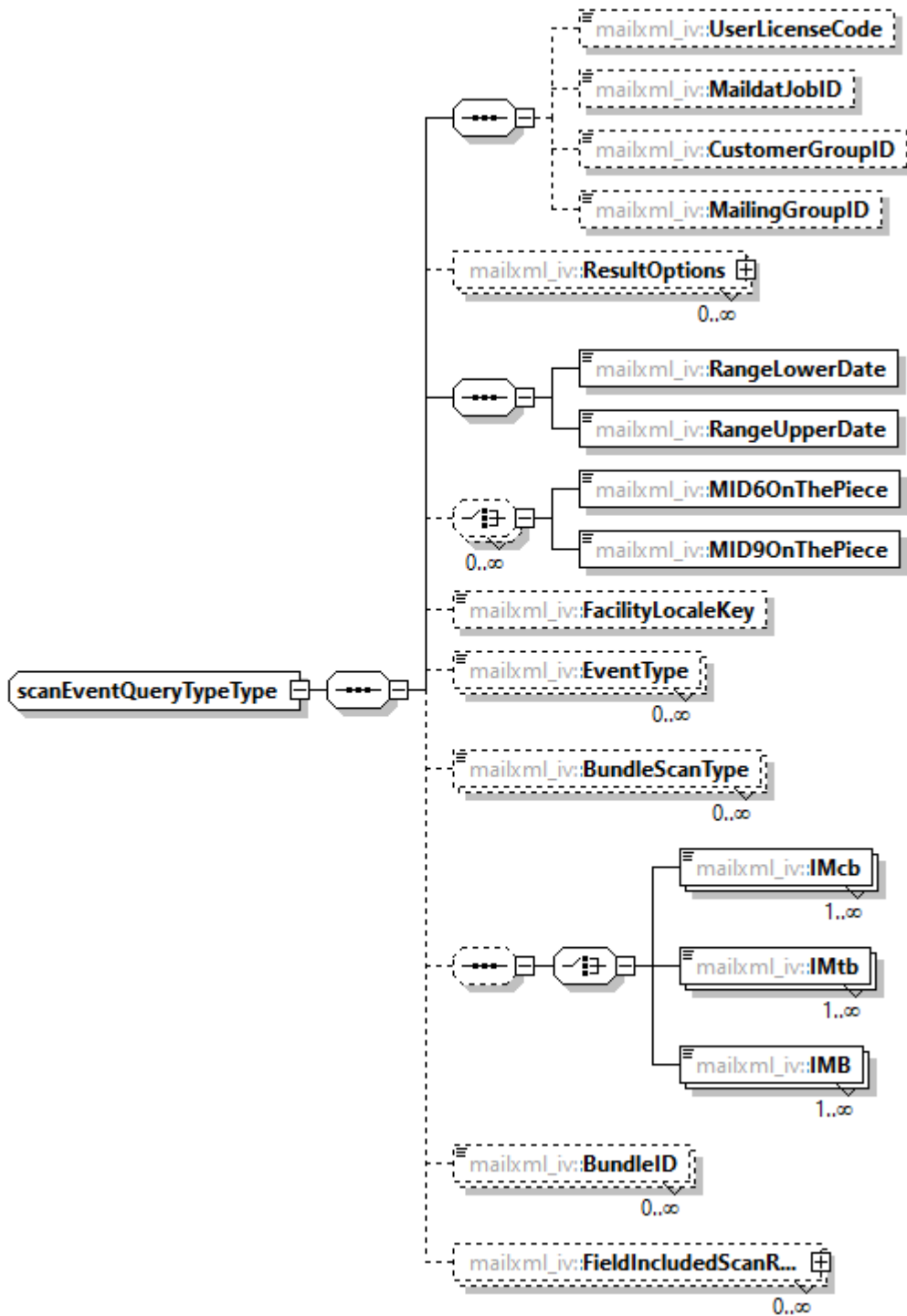


namespace

http://delivery-tech.org/Specs/mailxml26.3/mailxml_iv

complexType **scanEventQueryType**

diagram



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

complexType **ScanEventResultOptionsType**

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

simpleType **eDocTypeType**

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

simpleType **handlingEventTypeType**

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

simpleType **mailObjectTypeType**

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

simpleType **recipientRoleType**

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

simpleType **scanEventCodeType**

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