

Mail.XML Version 26.1

System Messages Specification

Monday, April 3, 2023

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Abstract

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

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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 26.1?

With this release, the Mail.XML Messaging Protocol moves to Version 26.1. This release supports structure changes required by mailing industry and Postal Service.

Changes supported by Mail.XML 26.1 include:

- 2613 - Proposal to add support for Marriage Mail product
- 2612 - Proposal to add support for USPS Ground Advantage product
- 2614 - Proposal to support/Clarify Destination Hub for Parcel Select Destination Entry

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/mailxml26.1/mailxml"
targetNamespace="http://delivery-tech.org/Specs/mailxml26.1/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/mailxml26.1A/mailxml" then at least one of the XSDs is at same version such as filename='Mail.XML_26.1A.xsd' <- Errata A
- If the wrapper version is labeled as xmlns:mailxml="http://deliverytech.org/Specs/mailxml26.1B/mailxml" then at least one of the XSDs is at same version such as filename='Mail.XML_26.1B.xsd' <- Errata B

- If the wrapper version is labeled as xmlns:mailxml="http://deliverytech.org/Specs/mailxml26.1/mailxml" then at least one of the XSDs is at same version such as filename = 'Mail.XML_26.1.xsd' <- Major Version

Mail.XML 26.1 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™ 26.1 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 26.1. Updates in this Specification are NOT backwardly compatible with previous versions. Other documents in the specification set include:

- Mail.XML™ 26.1: Transportation Messaging Specification documents all transportation messages
- Mail.XML™ 26.1: Mailing Messaging Specification documents all mailing messages
- Mail.XML™ 26.1: Informed Visibility Specification documents all informed visibility messages
- Mail.XML™ 26.1: Data Distribution Messaging Specification documents all data distribution messages
- Mail.XML™ 26.1: Identification Messaging Specification documents all identification messages
- Mail.XML™ 26.1: Supply Chain Messaging Specification documents all supply chain messages
- Mail.XML™ 26.1: System Messaging Specification documents all systems and fault messages
- Mail.XML™ 26.1: Simple Types Specification documents all simple types used across Mail.XML messages

- Mail.XML™ 26.1: Common Definitions Specification documents all shared elements and complex types.
- Mail.XML™ 26.1: Schemas contains the .XSDs that make up the Mail.XML Messaging Specification

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Schema mailxml_iv_26.1.xsd	8

Schema mailxml_iv_26.1.xsd

schema location: [..\XSDs\mailxml iv 26.1.xsd](#)
attribute form default: **qualified**
element form default: **qualified**
targetNamespace: **http://delivery-tech.org/Specs/mailxml26.1/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	<p>ContainerVisibilityDelivery</p> <p>Delivery of full service container visibility information by uSPS.</p> <p>attributes</p> <ul style="list-style-type: none"> grp mailxml_defs:LargeTrans... <ul style="list-style-type: none"> mailxml_defs:MessageGroupID mailxml_defs:TotalMessageCou... mailxml_defs:MessageSerialNu... mailxml_defs:TransmittedRecor... mailxml_defs:TotalRecordsAcro... mailxml_defs:LastMessage <p>mailxml_iv:SubmittingParty</p> <p>mailxml_iv:SubmittingSoftware</p> <p>mailxml_defs:DataRecipient</p> <p>mailxml_iv:PushMessageID</p> <p>mailxml_iv:ContainerVisibilityE...</p> <p>1..∞</p>
namespace	http://delivery-tech.org/Specs/mailxml26.1/mailxml_iv
annotation	<p>documentation</p> <p>Delivery of full service container visibility information by uSPS.</p>

element **ContainerVisibilityEntry**

diagram



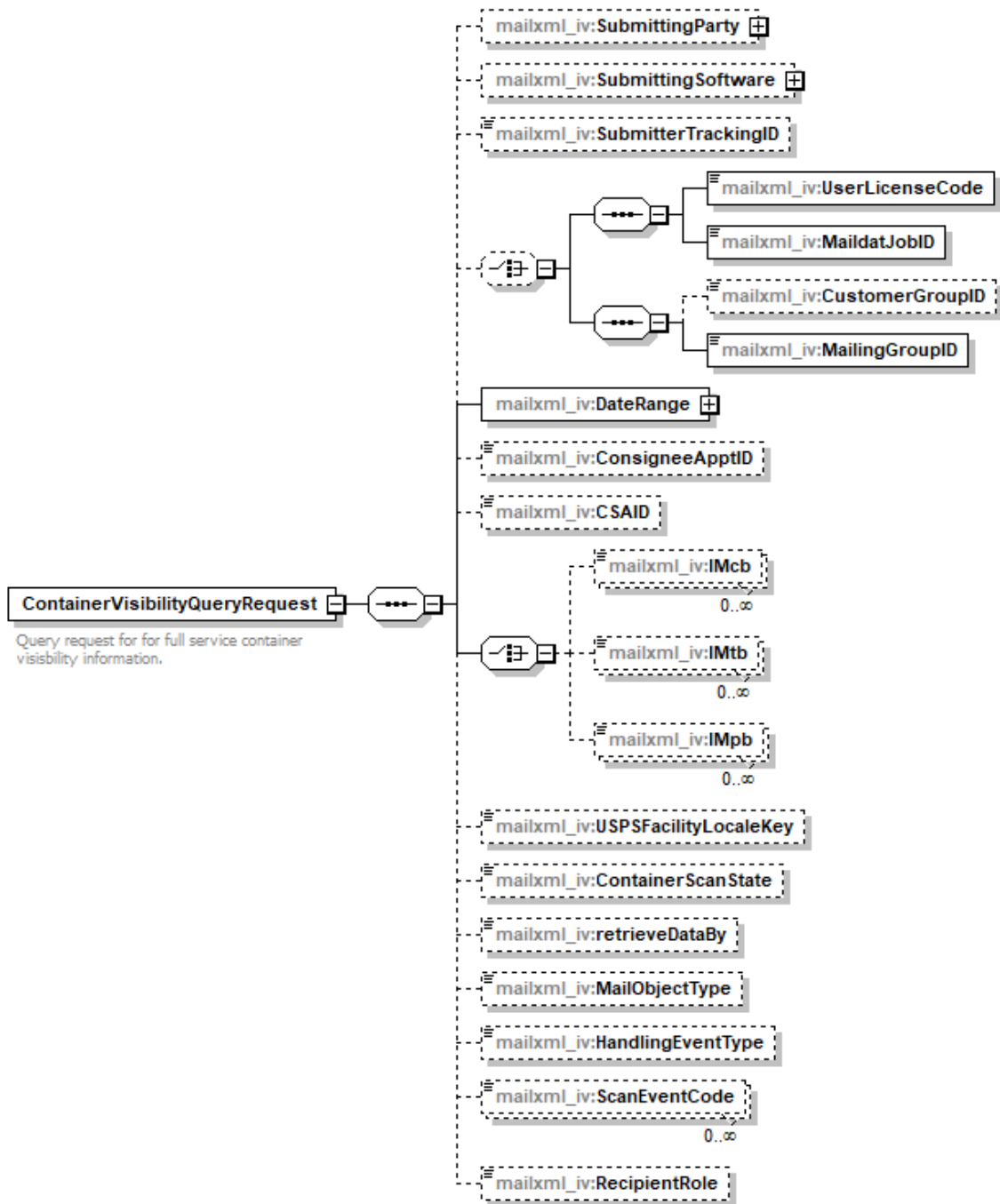
namespace http://delivery-tech.org/Specs/mailxml26.1/mailxml_iv

element **ContainerVisibilityNotification**

diagram	<p>ContainerVisibilityNotification Notification sent by USPS that full service container visibility information is ready for pickup.</p> <pre> xsd:element base="base" name="ContainerVisibilityNotification"> <div>Notification sent by USPS that full service container visibility information is ready for pickup.</div> <div> { mailxml_iv:SubmittingParty mailxml_iv:SubmittingSoftware mailxml_iv:PushMessageID } { { mailxml_iv:UserLicenseCode mailxml_iv:MaildatJobID } { mailxml_iv:CustomerGroupID mailxml_iv:MailingGroupID } } mailxml_iv:FNonFSAvailabilityD... { mailxml_iv:AvailableRecordCount mailxml_iv:CountType } mailxml_iv:NotificationDate </div> </pre>
---------	--

element ContainerVisibilityQueryRequest

diagram



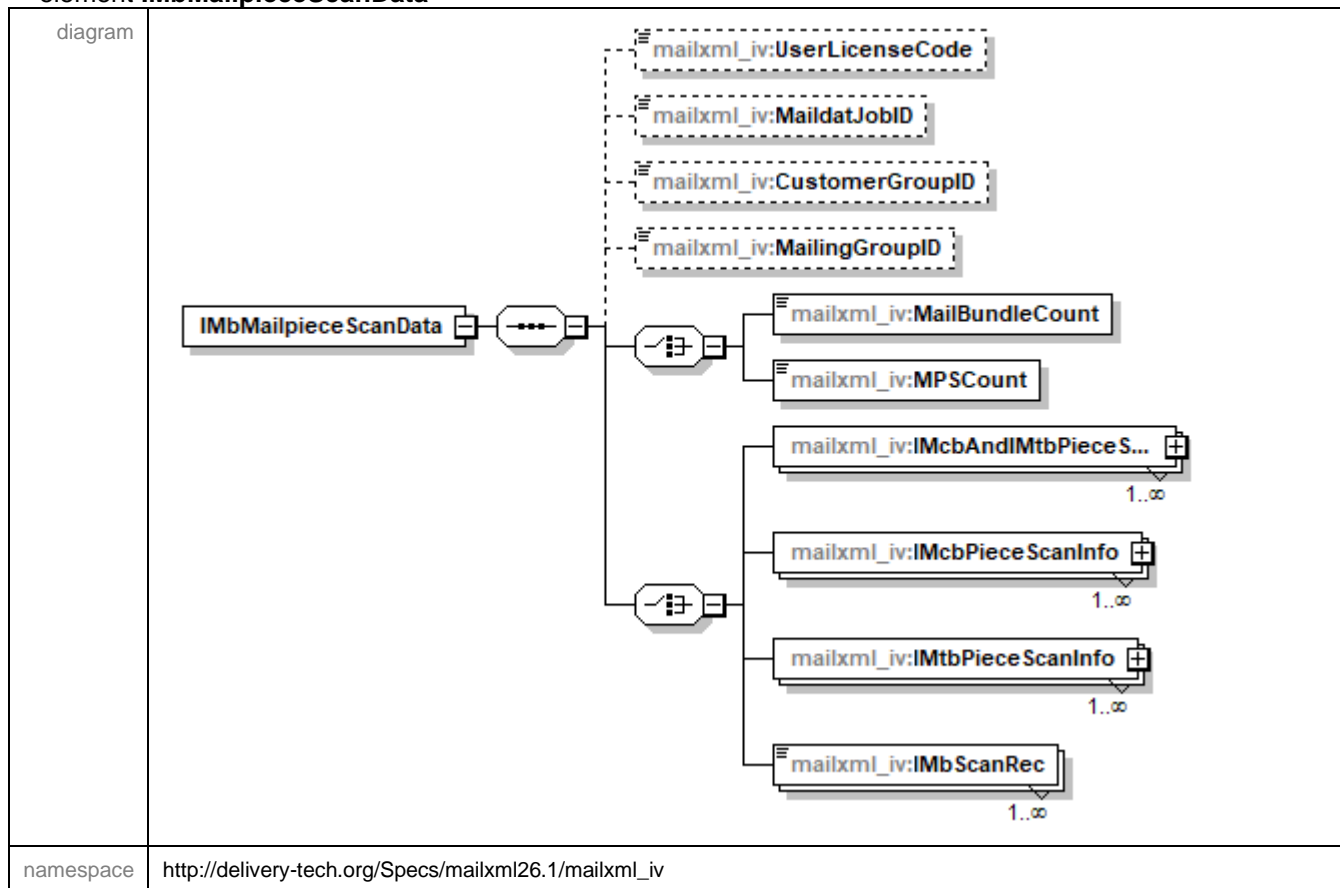
namespace http://delivery-tech.org/Specs/mailxml26.1/mailxml_iv

annotation
documentation
Query request for for full service container visisbility information.

element ContainerVisibilityQueryResponse

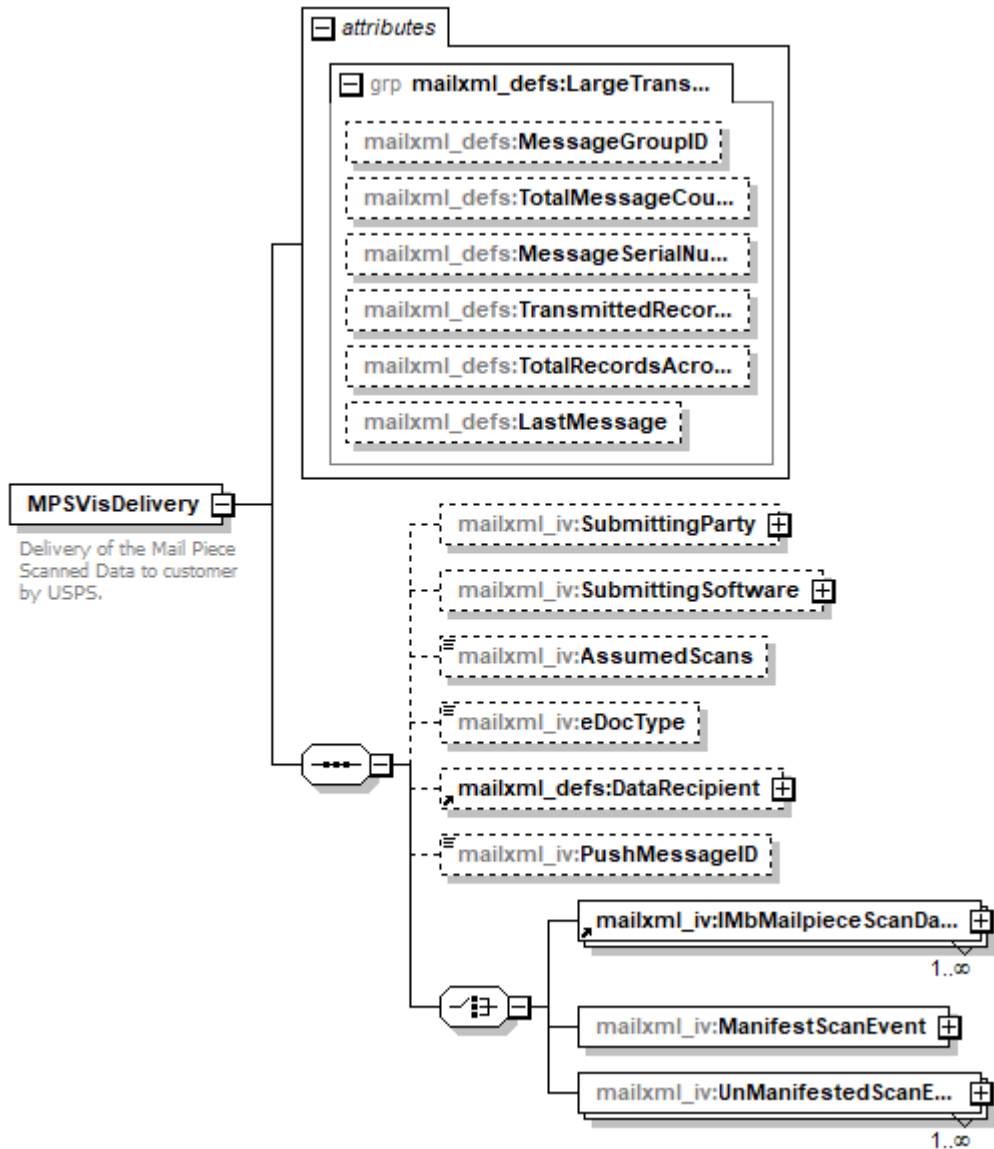
diagram	<p>ContainerVisibilityQueryRespo... Response to the Query request for for full service container visisbility information.</p> <p>attributes</p> <p>grp mailxml_defs:LargeTrans...</p> <ul style="list-style-type: none"> mailxml_defs:MessageGroupID mailxml_defs:TotalMessageCou... mailxml_defs:MessageSerialNu... 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/mailxml26.1/mailxml_iv
annotation	<p>documentation</p> <p>Response to the Query request for for full service container visibility information.</p>

element **IMbMailpieceScanData**



element **MPSVisDelivery**

diagram



namespace	http://delivery-tech.org/Specs/mailxml26.1/mailxml_iv
documentation	Delivery of the Mail Piece Scanned Data to customer by USPS.

element **MPSVisNotification**

diagram	<p>MPSVisNotification</p> <p>Notification from USPS that the Mail Piece Scanned Data is ready.</p>
namespace	http://delivery-tech.org/Specs/mailxml26.1/mailxml_iv
annotation	documentation Notification from USPS that the Mail Piece Scanned Data is ready.

element **MPSVisQueryRequest**

diagram	<p>MPSVisQueryRequest</p>
namespace	http://delivery-tech.org/Specs/mailxml26.1/mailxml_iv

element **MPSVisQueryResponse**

diagram	<p>MPSVisQueryResponse</p> <p>attributes</p> <ul style="list-style-type: none"> grp mailxml_defs:LargeTrans... <ul style="list-style-type: none"> mailxml_defs:MessageGroupID mailxml_defs:TotalMessageCou... 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:eDocType</p> <p>mailxml_iv:QueryResults</p> <p>mailxml_defs:QueryError</p> <p>Error issued when the query data cannot be provided.</p>
namespace	http://delivery-tech.org/Specs/mailxml26.1/mailxml_iv

element **StartTheClockBMEUBlock**

diagram	<p>StartTheClockBMEUBlock</p> <p>mailxml_iv:StartTheClockBMEU</p> <p>1..∞</p>
namespace	http://delivery-tech.org/Specs/mailxml26.1/mailxml_iv

element **StartTheClockDelivery**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml26.1/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/mailxml26.1/mailxml_iv
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element **StartTheClockNotification**

diagram	<p>The diagram shows the structure of the StartTheClockNotification element. It is a container element with a title bar and a description: "Notification from USPS that start the clock information is ready to be picked up." The element contains several child elements:</p> <ul style="list-style-type: none"> mailxml_iv:SubmittingParty (required, 1..1) mailxml_iv:SubmittingSoftware (required, 1..1) mailxml_defs:DataRecipient (required, 1..1) mailxml_iv:PushMessageID (optional, 0..1) mailxml_iv:FNonFSAvailabilityD... (optional, 0..1) mailxml_iv:NotificationDate (optional, 0..1) A complex group of elements enclosed in a dashed box, which is itself optional (0..1): <ul style="list-style-type: none"> mailxml_iv:UserLicenseCode (optional, 0..1) mailxml_iv:MaildatJobID (optional, 0..1) mailxml_iv:CustomerGroupID (optional, 0..1) mailxml_iv:MailingGroupID (optional, 0..1)
namespace	http://delivery-tech.org/Specs/mailxml26.1/mailxml_iv
annotation	documentation Notification from USPS that start the clock information is ready to be picked up.

element **StartTheClockPlantLoadBlock**

diagram	<p>The diagram shows the structure of the StartTheClockPlantLoadBlock element. It is a container element with a title bar and a description: "Notification from USPS that start the clock information is ready to be picked up." The element contains a single child element:</p> <ul style="list-style-type: none"> mailxml_iv:StartTheClockPlant... (optional, 1..∞)
namespace	http://delivery-tech.org/Specs/mailxml26.1/mailxml_iv

element **StartTheClockQueryRequest**

diagram	<pre> xsd:element name="StartTheClockQueryRequest"> <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:MaildatJobID mailxml_iv:CustomerGroupID mailxml_iv:MailingGroupID mailxml_iv:CustomerAccount mailxml_iv:LowerDateRange mailxml_iv:UpperDateRange mailxml_iv:retrieveDataBy </div> </pre>
---------	--

element **StartTheClockQueryResponse**

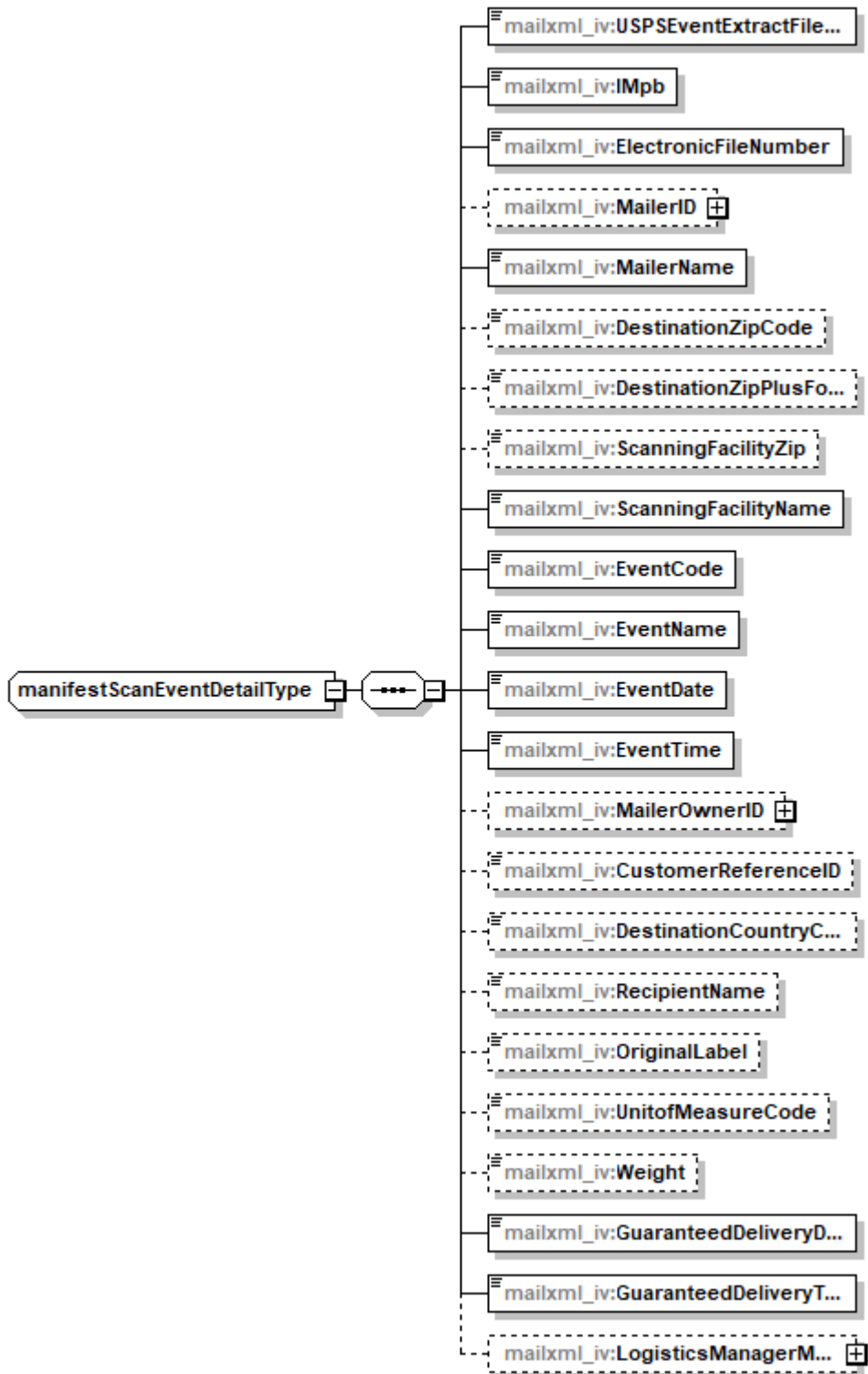
diagram	
namespace	http://delivery-tech.org/Specs/mailxml26.1/mailxml_iv
annotation	documentation Response to the query for start the clock information.

complexType **clockStartedType**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml26.1/mailxml_iv

complexType manifestScanEventDetailType

diagram



namespace http://delivery-tech.org/Specs/mailxml26.1/mailxml_iv

complexType manifestScanNotificationDataType

diagram	
namespace	http://delivery-tech.org/Specs/mailxml26.1/mailxml_iv

complexType manifestScanQueryType

diagram	
namespace	http://delivery-tech.org/Specs/mailxml26.1/mailxml_iv

complexType MPSNotificationDataType

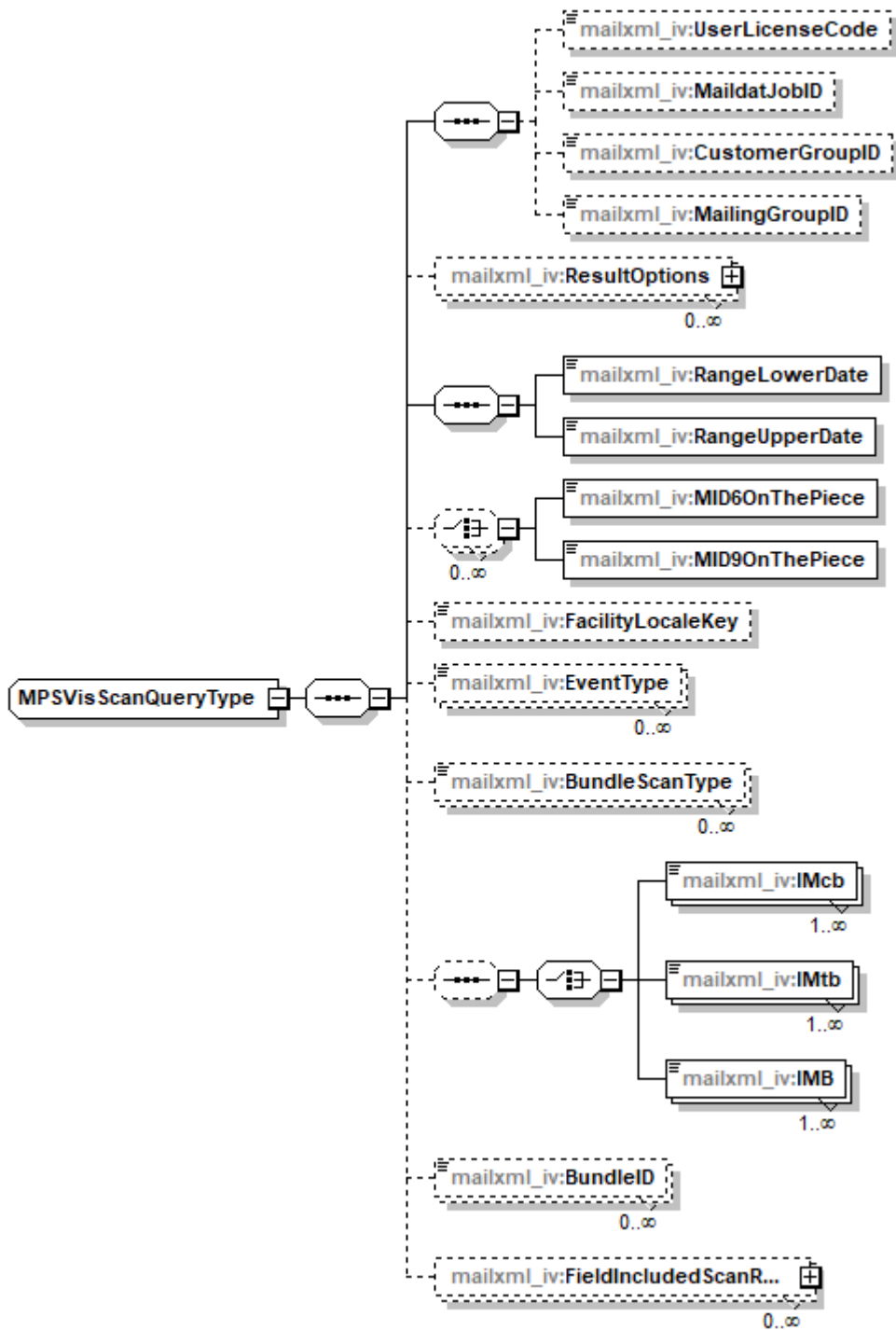
diagram	
namespace	http://delivery-tech.org/Specs/mailxml26.1/mailxml_iv

complexType MPSRequestTypeType

diagram	
namespace	http://delivery-tech.org/Specs/mailxml26.1/mailxml_iv

complexType **MPSVisScanQueryType**

diagram

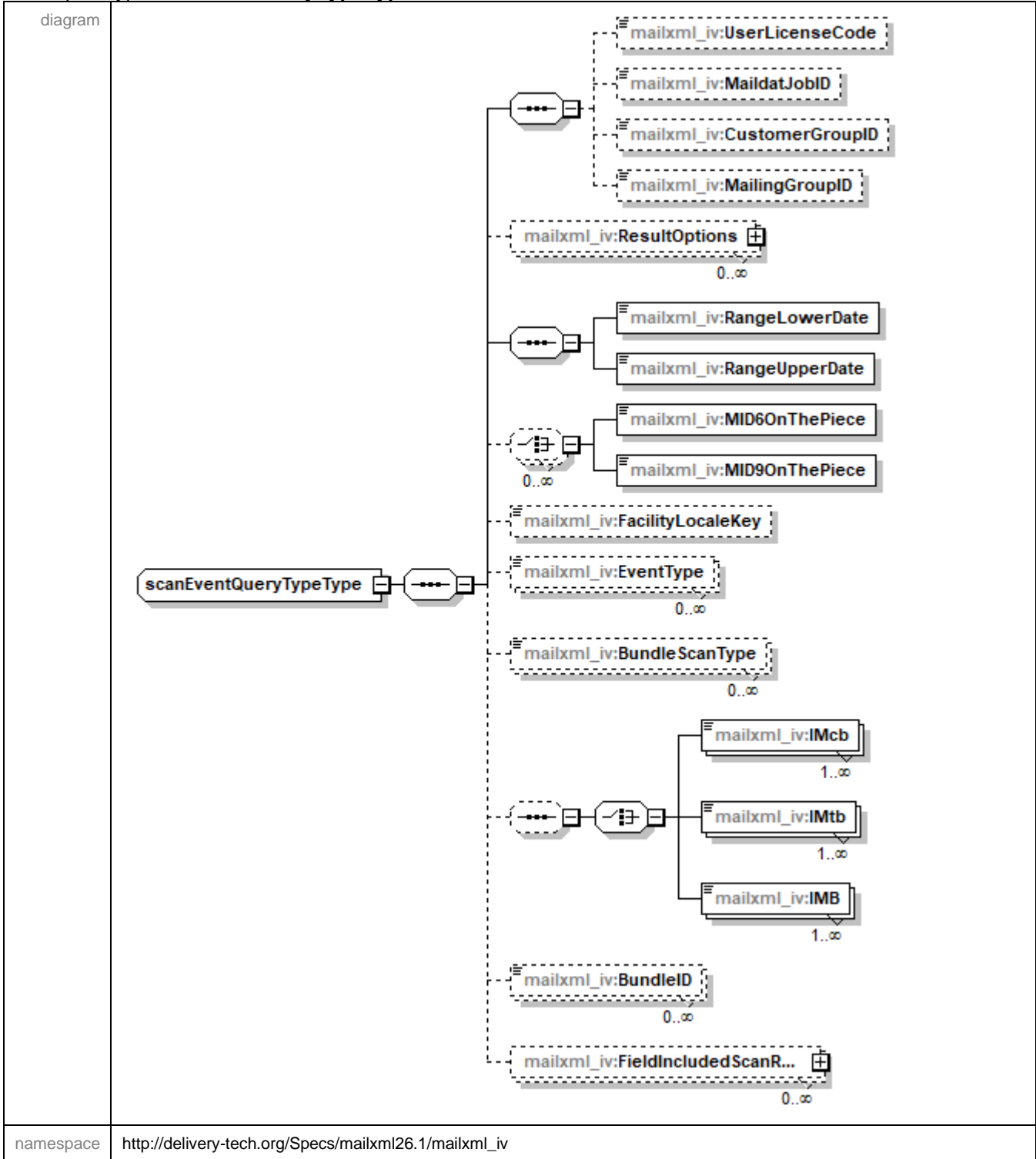


namespace http://delivery-tech.org/Specs/mailxml26.1/mailxml_iv

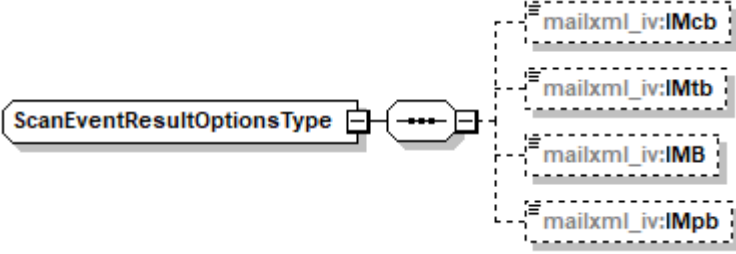
complexType **PSRBlockType**

diagram	<pre> xsd:element name="PSRBlockType" type="complexType"> <xsd:sequence> <xsd:element minoccurs="0" name="mailxml_iv:PRID" type="string"></xsd:element> <xsd:element minoccurs="0" name="mailxml_iv:IMBLS" type="string"></xsd:element> <xsd:element minoccurs="0" name="mailxml_iv:IMBUS" type="string"></xsd:element> <xsd:choice> <xsd:element minoccurs="0" name="mailxml_iv:STCode" type="string"></xsd:element> <xsd:element minoccurs="0" name="mailxml_iv:Class" type="string"></xsd:element> </xsd:choice> <xsd:element minoccurs="0" name="mailxml_iv:SLI" type="string"></xsd:element> </xsd:sequence> </pre>
namespace	http://delivery-tech.org/Specs/mailxml26.1/mailxml_iv

complexType scanEventQueryTypeType



complexType **ScanEventResultOptionsType**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml26.1/mailxml_iv

simpleType **eDocTypeType**

namespace	http://delivery-tech.org/Specs/mailxml26.1/mailxml_iv
type	restriction of xs:string

simpleType **handlingEventTypeType**

namespace	http://delivery-tech.org/Specs/mailxml26.1/mailxml_iv
type	restriction of xs:string

simpleType **mailObjectTypeType**

namespace	http://delivery-tech.org/Specs/mailxml26.1/mailxml_iv
type	restriction of xs:string

simpleType **recipientRoleType**

namespace	http://delivery-tech.org/Specs/mailxml26.1/mailxml_iv
type	restriction of xs:string

simpleType **scanEventCodeType**

namespace	http://delivery-tech.org/Specs/mailxml26.1/mailxml_iv
type	restriction of xs:string