

Mail.XML Version 24.1

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 24.1?

With this release, the Mail.XML Messaging Protocol moves to Version 24.1. This release supports structure changes required by mailing industry and Postal Service.

Changes supported by Mail.XML 24.1 include:

- CR 2411 – Modification to RateCategoryType, to include a value of B2 to represent High Density Flats Carrier Route Bundles on Pallets
- CR 2412 – Updates to CharacteristicIncentiveType to include enumerations from 0X to 9X to make values consistent with list of Content values and with Mail.dat
- CR 2410 – Updates to ZoneIType to support Zone 10 (represented as value A) for USPS competitive products

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/mailxml24.1/mailxml> targetNamespace=<http://delivery-tech.org/Specs/mailxml24.1/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/mailxml24.1A/mailxml" then at least one of the XSDs is at same version such as filename = 'Mail.XML_24.1A.xsd' <- Errata A
- If the wrapper version is labeled as xmlns:mailxml="http://deliverytech.org/Specs/mailxml24.1B/mailxml" then at least one of the XSDs is at same version such as filename = 'Mail.XML_24.1B.xsd' <- Errata B
- If the wrapper version is labeled as xmlns:mailxml="http://deliverytech.org/Specs/mailxml24.1/mailxml" then at least one of the XSDs is at same version such as filename = 'Mail.XML_24.1.xsd' <- Major Version

Mail.XML 24.1 XSD Modules:

The following Mail.XML XSD modules/namespaces are used:

Note: Actual xsd filenames include the version number (e.g. *mailxml_base_24.1.xsd*).

- mailxml_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=mailxml_tm:
- mailxml_mm.xsd: This module contains all the mailing messages (eDoc) and the attributes, elements and complex types that are unique to these messages. Namespace=mailxml_mm:

- mailxml_iv.xsd: This module contains informed visibility messages and the attributes, elements and complex types that are unique to these messages. Namespace=mailxml_iv:
- mailxml_dd.xsd: This module contains all the data distribution messages and the attributes, elements and complex types that are unique to these messages. Namespace=mailxml_dd:
- mailxml_id.xsd: This module contains all the identification messages and the attributes, elements and complex types that are unique to these messages. Namespace=mailxml_id:
- mailxml_sc.xsd: This module contains all the supply chain messages and the attributes, elements and complex types that are unique to these messages. Namespace=mailxml_sc:
- mailxml_defs.xsd: This module contains all the common definitions of attributes, elements and mailxml_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=mailxml_base:
- mailxml.xsd: This module contains the system messages of Mail.XML and is used to build custom profiles for Mail.XML. Namespace=mailxml:

The Mail.XML™ 24 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 23.0. Updates in this Specification are NOT backwardly compatible with previous versions. Other documents in the specification set include:

- Mail.XML™ 24.1: Transportation Messaging Specification documents all transportation messages
- Mail.XML™ 24.1: Mailing Messaging Specification documents all mailing messages
- Mail.XML™ 24.1: Informed Visibility Specification documents all informed visibility messages
- Mail.XML™ 24.1: Data Distribution Messaging Specification documents all data distribution messages
- Mail.XML™ 24.1: Identification Messaging Specification documents all identification messages
- Mail.XML™ 24.1: Supply Chain Messaging Specification documents all supply chain messages
- Mail.XML™ 24.1: System Messaging Specification documents all systems and fault messages
- Mail.XML™ 24.1: Simple Types Specification documents all simple types used across Mail.XML messages
- Mail.XML™ 24.1: Common Definitions Specification documents all shared elements and complex types.
- Mail.XML™ 24.1: Schemas contains the .XSDs that make up the Mail.XML Messaging Specification

Table of Contents

ABSTRACT	3
ABOUT MAIL.XML™	3
WHAT'S NEW IN MAIL.XML VERSION 24.1?	3
ABOUT MAIL.XML SCHEMA MODULARIZATION	3
MAIL.XML MODULE VERSIONING RULES	4
MAIL.XML 24.1 XSD MODULES:.....	4
THE MAIL.XML™ 24 MESSAGING DOCUMENTATION SET	5
1 INDEX	7
2 ELEMENTS	8

1 Index

schema location: **mailxml_iv_24.1.xsd**
attributeFormDefault: **qualified**
elementFormDefault: **qualified**
targetNamespace: **http://delivery-tech.org/Specs/mailxml24.1/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

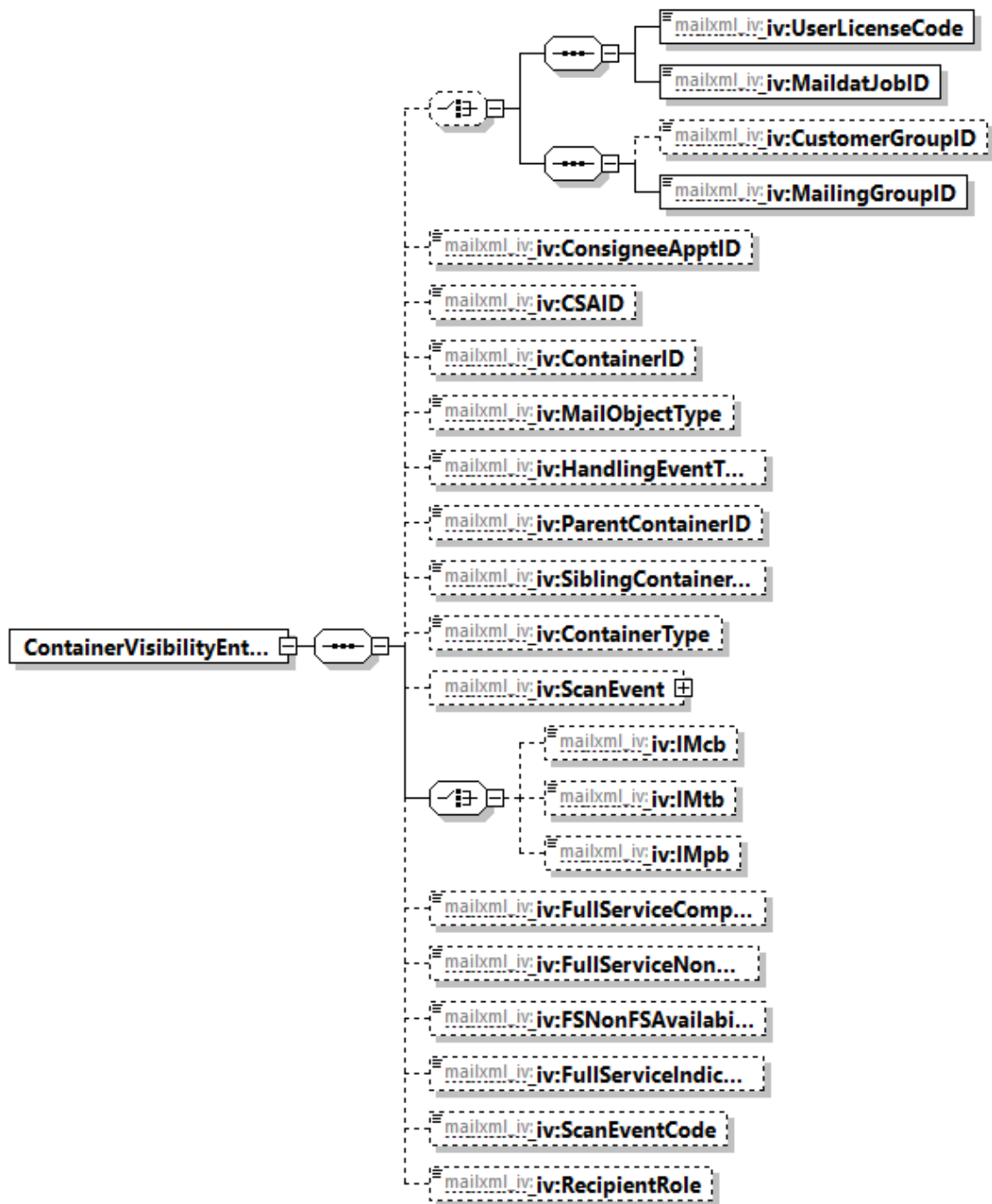
2 Elements

element **ContainerVisibilityDelivery**

diagram						
namespace	http://delivery-tech.org/Specs/mailxml24.1/mailxml_iv					
children	mailxml_iv:SubmittingParty mailxml_iv:SubmittingSoftware mailxml_defs:DataRecipient mailxml_iv:PushMessageID mailxml_iv:ContainerVisibilityEntry					
attributes	Name mailxml_defs:MessageGroupID mailxml_defs:TotalMessageCount mailxml_defs:MessageSerialNumber mailxml_defs:TransmittedRecordCount mailxml_defs:TotalRecordsAcrossMessages mailxml_defs:LastMessage	Type mailxml_base:s20 xs:positiveInteger xs:positiveInteger xs:positiveInteger xs:positiveInteger xs:positiveInteger mailxml_base:yesNo	Use optional optional optional optional optional optional	Default No	Fixed 	Annotation
annotation	documentation Delivery of full service container visibility information by uSPS.					

element **ContainerVisibilityEntry**

diagram



namespace http://delivery-tech.org/Specs/mailxml24.1/mailxml_iv

children

**mailxml_iv:UserLicenseCode mailxml_iv:MaildatJobID mailxml_iv:CustomerGroupID
mailxml_iv:MailingGroupID mailxml_iv:ConsigneeApptID mailxml_iv:CSAID
mailxml_iv:ContainerID mailxml_iv:MailObjectType mailxml_iv:HandlingEventType
mailxml_iv:ParentContainerID mailxml_iv:SiblingContainerID mailxml_iv:ContainerType
mailxml_iv:ScanEvent mailxml_iv:IMcb mailxml_iv:IMtb mailxml_iv:IMpb
mailxml_iv:FullServiceComplianceIndicator mailxml_iv:FullServiceNonComplianceReasonCode**

	mailxml_iv:FSNonFSAvailabilityDate mailxml_iv:FullServiceIndicator mailxml_iv:ScanEventCode mailxml_iv:RecipientRole
used by	elements ContainerVisibilityDelivery ContainerVisibilityQueryResponse/QueryResults

element **ContainerVisibilityNotification**

diagram	<p>The diagram illustrates the structure of the ContainerVisibilityNotification element. It is a container element (rectangle with a small square in the top-left corner) containing a sequence of elements (rectangle with three dots in the top-left corner). The sequence is composed of the following elements:</p> <ul style="list-style-type: none">mailxml_iv:SubmittingParty (dashed border, plus icon)mailxml_iv:SubmittingSoftware (dashed border, plus icon)mailxml_iv:PushMessageID (dashed border)A choice element (rectangle with a circle and a plus icon) containing two elements:<ul style="list-style-type: none">mailxml_iv:UserLicenseCode (solid border)mailxml_iv:MaildatJobID (solid border)A choice element (rectangle with a circle and a plus icon) containing two elements:<ul style="list-style-type: none">mailxml_iv:CustomerGroupID (dashed border)mailxml_iv:MailingGroupID (solid border)mailxml_iv:FSNonFSAvailabilityDate (dashed border)A choice element (rectangle with a circle and a plus icon) containing two elements:<ul style="list-style-type: none">mailxml_iv:AvailableRecordCount (dashed border)mailxml_iv:CountType (solid border)mailxml_iv:NotificationDate (solid border) <p>The choice elements are indicated by a dashed line and a circle with a plus icon. The AvailableRecordCount element has a cardinality of 0..∞.</p>
namespace	http://delivery-tech.org/Specs/mailxml24.1/mailxml_iv
children	mailxml_iv:SubmittingParty mailxml_iv:SubmittingSoftware mailxml_iv:PushMessageID mailxml_iv:UserLicenseCode mailxml_iv:MaildatJobID mailxml_iv:CustomerGroupID mailxml_iv:MailingGroupID mailxml_iv:FSNonFSAvailabilityDate mailxml_iv:AvailableRecordCount mailxml_iv:CountType mailxml_iv:NotificationDate
annotation	documentation Notification sent by USPS that full service container visibility information is ready for pickup.

element **ContainerVisibilityQueryRequest**

<p>diagram</p>	
<p>namespace</p>	<p>http://delivery-tech.org/Specs/mailxml24.1/mailxml_iv</p>
<p>children</p>	<p> mailxml_iv:SubmittingParty mailxml_iv:SubmittingSoftware mailxml_iv:SubmitterTrackingID mailxml_iv:UserLicenseCode mailxml_iv:MaildatJobID mailxml_iv:CustomerGroupID mailxml_iv:MailingGroupID mailxml_iv:DateRange mailxml_iv:ConsigneeApptID mailxml_iv:CSAID mailxml_iv:IMcb mailxml_iv:IMtb mailxml_iv:IMpb mailxml_iv:USPSFacilityLocaleKey mailxml_iv:ContainerScanState mailxml_iv:retrieveDataBy mailxml_iv:MailObjectType mailxml_iv:HandlingEventType mailxml_iv:ScanEventCode mailxml_iv:RecipientRole </p>

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

element **ContainerVisibilityQueryResponse**

diagram						
namespace	http://delivery-tech.org/Specs/mailxml24.1/mailxml_iv					
children	mailxml_iv:TrackingID mailxml_iv:SubmitterTrackingID mailxml_iv:QueryResults mailxml_defs:QueryError					
attributes	Name	Type	Use	Default	Fixed	Annotation
	mailxml_defs:MessageGroupID	mailxml_base:s20	optional			
	mailxml_defs:TotalMessageCount	xs:positiveInteger	optional			
	mailxml_defs:MessageSerialNumber	xs:positiveInteger	optional			
	mailxml_defs:TransmittedRecordCount	xs:positiveInteger	optional			
	mailxml_defs:TotalRecordsAcrossMessages	xs:positiveInteger	optional			
	mailxml_defs:LastMessage	mailxml_base:yesNo	optional	No		
annotation	documentation Response to the Query request for for full service container visisbility information.					

element **IMbMailpieceScanData**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml24.1/mailxml_iv
children	mailxml_iv:UserLicenseCode mailxml_iv:MaildatJobID mailxml_iv:CustomerGroupID mailxml_iv:MailingGroupID mailxml_iv:MailBundleCount mailxml_iv:MPSCCount mailxml_iv:IMcbAndIMtbPieceScanInfo mailxml_iv:IMcbPieceScanInfo mailxml_iv:IMtbPieceScanInfo mailxml_iv:IMbScanRec
used by	elements MPSVisQueryResponse/QueryResults MPSVisDelivery

element **MPSVisDelivery**

diagram						
namespace	http://delivery-tech.org/Specs/mailxml24.1/mailxml_iv					
children	mailxml_iv:SubmittingParty mailxml_iv:SubmittingSoftware mailxml_iv:AssumedScans mailxml_iv:eDocType mailxml_defs:DataRecipient mailxml_iv:PushMessageID mailxml_iv:IMbMailpieceScanData mailxml_iv:ManifestScanEvent mailxml_iv:UnManifestedScanEventDetail					
attributes	Name	Type	Use	Default	Fixed	Annotation
	mailxml_defs:MessageGroupID	mailxml_base:s20	optional			
	mailxml_defs:TotalMessageCount	xs:positiveInteger	optional			
	mailxml_defs:MessageSerialNumber	xs:positiveInteger	optional			
	mailxml_defs:TransmittedRecordCount	xs:positiveInteger	optional			
	mailxml_defs:TotalRecordsAcrossMessages	xs:positiveInteger	optional			
	mailxml_defs:LastMessage	mailxml_base:yesNo	optional	No		

annotation	documentation Delivery of the Mail Piece Scanned Data to customer by USPS.
------------	---

element **MPSVisNotification**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml24.1/mailxml_iv
children	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 mailxml_iv:NotificationDate mailxml_iv:MPSNotificationData mailxml_iv:ManifestScanNotification
annotation	documentation Notification from USPS that the Mail Piece Scanned Data is ready.

element **MPSVisQueryRequest**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml24.1/mailxml_iv
children	mailxml_iv:SubmittingParty mailxml_iv:SubmittingSoftware mailxml_iv:SubmitterTrackingID mailxml_iv:ManifestScanQuery mailxml_iv:MPSVisScanQueryType mailxml_iv:RetrieveDataBy

element **MPSVisQueryResponse**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml24.1/mailxml_iv
children	mailxml_iv:TrackingID mailxml_iv:SubmitterTrackingID mailxml_iv:eDocType

	mailxml_iv:QueryResults mailxml_defs:QueryError					
attributes	Name	Type	Use	Default	Fixed	Annotation
	mailxml_defs:MessageGroupID	mailxml_base:s20	required			
	mailxml_defs:TotalMessageCount	xs:positiveInteger	required			
	mailxml_defs:MessageSerialNumber	xs:positiveInteger	required			
	mailxml_defs:TransmittedRecordCount	xs:positiveInteger	required			
	mailxml_defs:TotalRecordsAcrossMessages	xs:positiveInteger	required			
	mailxml_defs:LastMessage	mailxml_base:yesNo	optional	No		

element **StartTheClockBMEUBlock**

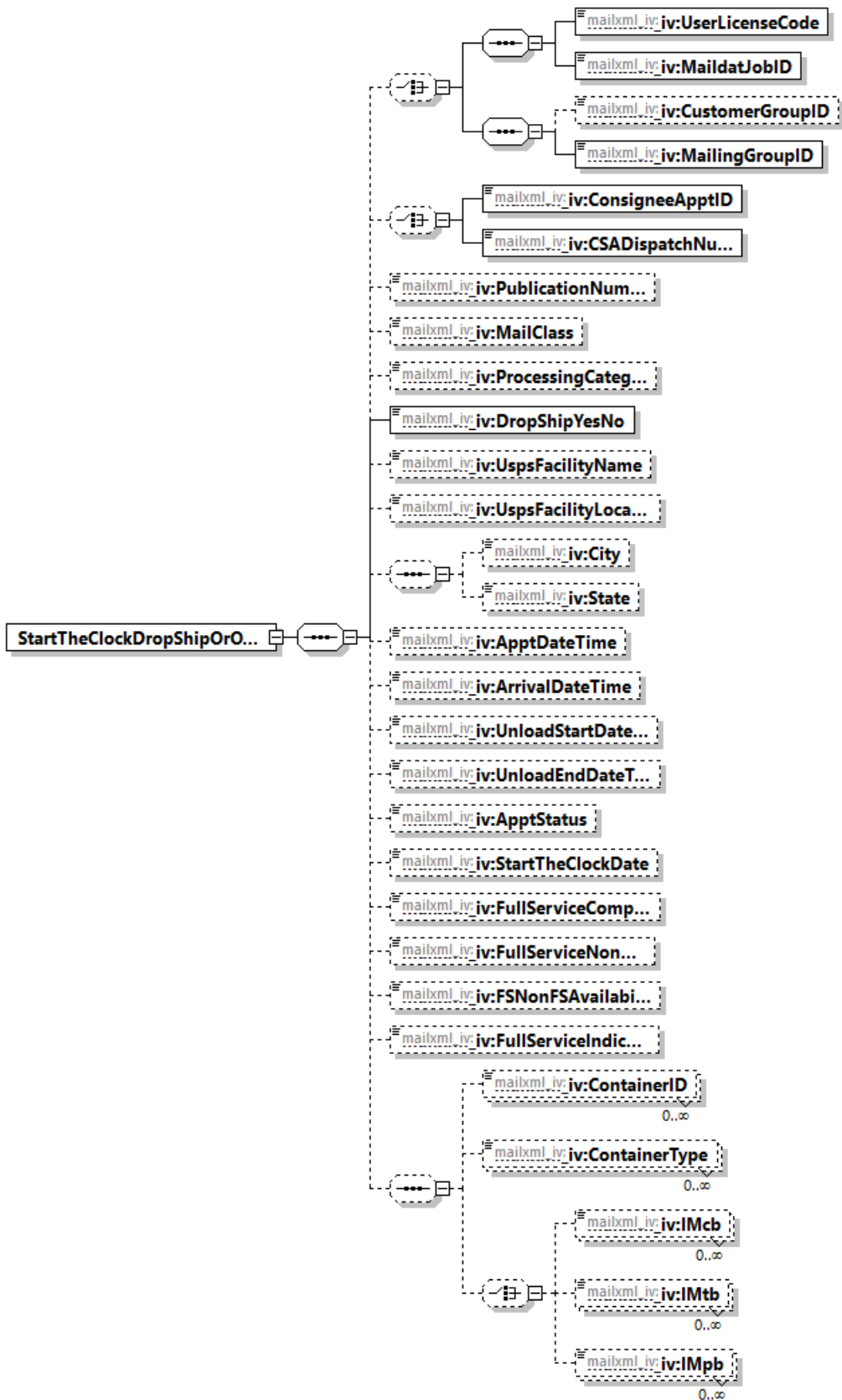
diagram						
namespace	http://delivery-tech.org/Specs/mailxml24.1/mailxml_iv					
children	mailxml_iv:StartTheClockBMEU					
used by	complexType clockStartedType					

element **StartTheClockDelivery**

diagram						
namespace	http://delivery-tech.org/Specs/mailxml24.1/mailxml_iv					
children	mailxml_iv:SubmittingParty mailxml_iv:SubmittingSoftware mailxml_defs:DataRecipient mailxml_iv:PushMessageID mailxml_iv:ClockStarted					
annotation	documentation Delivery of start the clock information to customer by USPS.					

element **StartTheClockDropShipOrOrigin**

diagram



namespace	http://delivery-tech.org/Specs/mailxml24.1/mailxml_iv
children	mailxml_iv:UserCode 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:FullServiceComplianceIndicator mailxml_iv:FullServiceNonComplianceReasonCode mailxml_iv:FSNonFSAAvailabilityDate mailxml_iv:FullServiceIndicator mailxml_iv:ContainerID mailxml_iv:ContainerType mailxml_iv:LMcb mailxml_iv:IMtb mailxml_iv:IMpb
used by	element clockStartedType/StartTheClockDropShipOrOriginBlock

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, each represented by a box with a plus sign in the top right corner. The children are: mailxml_iv:iv:SubmittingParty, mailxml_iv:iv:SubmittingSoft..., mailxml_defs:DataRecipient, mailxml_iv:iv:PushMessageID, mailxml_iv:iv:UserCode, mailxml_iv:iv:MaildatJobID, mailxml_iv:iv:CustomerGroupID, mailxml_iv:iv:MailingGroupID, mailxml_iv:iv:FSNonFSAvailabi..., and mailxml_iv:iv:NotificationDate. The element is connected to a dashed line representing a sequence of elements.</p>
namespace	http://delivery-tech.org/Specs/mailxml24.1/mailxml_iv
children	mailxml_iv:SubmittingParty mailxml_iv:SubmittingSoftware mailxml_defs:DataRecipient mailxml_iv:PushMessageID mailxml_iv:UserCode mailxml_iv:MaildatJobID mailxml_iv:CustomerGroupID mailxml_iv:MailingGroupID mailxml_iv:FSNonFSAAvailabilityDate mailxml_iv:NotificationDate
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, mailxml_iv:iv:StartTheClockPI..., which is connected to a dashed line representing a sequence of elements. The element is connected to a dashed line representing a sequence of elements.</p>
---------	---

namespace	http://delivery-tech.org/Specs/mailxml24.1/mailxml_iv
children	mailxml_iv:StartTheClockPlantLoad
used by	complexType clockStartedType

element **StartTheClockQueryRequest**

<div> <div>diagram</div> </div>	
namespace	http://delivery-tech.org/Specs/mailxml24.1/mailxml_iv
children	mailxml_iv:SubmittingParty mailxml_iv:SubmittingSoftware mailxml_iv:SubmitterTrackingID mailxml_iv:ConsigneeApptID mailxml_iv:CSADispatchNumber mailxml_iv:UserLicenseCode mailxml_iv:MaidatJobID mailxml_iv:CustomerGroupID mailxml_iv:MailingGroupID mailxml_iv:CustomerAccount mailxml_iv:LowerDateRange mailxml_iv:UpperDateRange mailxml_iv:retrieveDataBy
annotation	<div>documentation</div> <div>Query request for start the clock information.</div>

element **StartTheClockQueryResponse**

diagram	<div><div><div>StartTheClockQueryRespon...</div><div>Response to the query for start the clock information.</div></div><div><div>attributes</div><div><div>grp mailxml_defs:LargeTra...</div><div><div>mailxml_defs:fs:MessageGrou...</div><div>mailxml_defs:fs:TotalMessage...</div><div>mailxml_defs:fs:MessageSerial...</div><div>mailxml_defs:fs:TransmittedRe...</div><div>mailxml_defs:fs:TotalRecordsA...</div><div>mailxml_defs:fs:LastMessage</div></div></div></div><div><div>mailxml_iv:iv:TrackingID</div><div>mailxml_iv:iv:SubmitterTracki...</div><div><div>mailxml_iv:iv:QueryResu...</div><div>mailxml_defs:QueryErr...</div><div>Error issued when the query data cannot be provided.</div></div></div></div>					
namespace	http://delivery-tech.org/Specs/mailxml24.1/mailxml_iv					
children	mailxml_iv:TrackingID mailxml_iv:SubmitterTrackingID mailxml_iv:QueryResults mailxml_defs:QueryError					
attributes	Name	Type	Use	Default	Fixed	Annotation
	mailxml_defs:MessageGroupID	mailxml_base:s20	required			
	mailxml_defs:TotalMessageCount	xs:positiveInteger	required			
	mailxml_defs:MessageSerialNumber	xs:positiveInteger	required			
	mailxml_defs:TransmittedRecordCount	xs:positiveInteger	required			
	mailxml_defs:TotalRecordsAcrossMessages	xs:positiveInteger	required			
	mailxml_defs:LastMessage	mailxml_base:yesNo	optional	No		
annotation	documentation Response to the query for start the clock information.					

complexType **clockStartedType**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml24.1/mailxml_iv
children	mailxml_iv:StartTheClockBMEUBlock mailxml_iv:StartTheClockDropShipOrOriginBlock mailxml_iv:StartTheClockPlantLoadBlock
used by	elements StartTheClockDelivery/ClockStarted StartTheClockQueryResponse/QueryResults/ClockStarted

complexType **manifestScanEventDetailType**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml24.1/mailxml_iv
children	mailxml_iv:USPSEventExtractFileVersionNumber mailxml_iv:IMpb mailxml_iv:ElectronicFileNumber mailxml_iv:MailerID mailxml_iv:MailerName

	mailxml_iv:DestinationZipCode mailxml_iv:DestinationZipPlusFour mailxml_iv:ScanningFacilityZip mailxml_iv:ScanningFacilityName mailxml_iv:EventCode mailxml_iv:EventName mailxml_iv:EventDate mailxml_iv:EventTime mailxml_iv:MailerOwnerID mailxml_iv:CustomerReferenceID mailxml_iv:DestinationCountryCode mailxml_iv:RecipientName mailxml_iv:OriginalLabel mailxml_iv:UnitofMeasureCode mailxml_iv:Weight mailxml_iv:GuaranteedDeliveryDate mailxml_iv:GuaranteedDeliveryTime mailxml_iv:LogisticsManagerMailerID
used by	elements MPSVisDelivery/ManifestScanEvent/ManifestScanEventDetail MPSVisQueryResponse/QueryResults/ManifestScanEvent/ManifestScanEventDetail MPSVisDelivery/UnManifestedScanEventDetail MPSVisQueryResponse/QueryResults/UnManifestedScanEventDetail

complexType **manifestScanNotificationDataType**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml24.1/mailxml_iv
children	mailxml_iv:ConsigneeManifestID
used by	element MPSVisNotification/ManifestScanNotification

complexType **manifestScanQueryType**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml24.1/mailxml_iv
children	mailxml_iv:ConsigneeManifestID
used by	element MPSVisQueryRequest/ManifestScanQuery

complexType **MPSNotificationDataType**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml24.1/mailxml_iv
children	mailxml_iv:MPSRBlock mailxml_iv:MPSAvailabilityDate
used by	element MPSVisNotification/MPSNotificationData

complexType **MPSRequestTypeType**

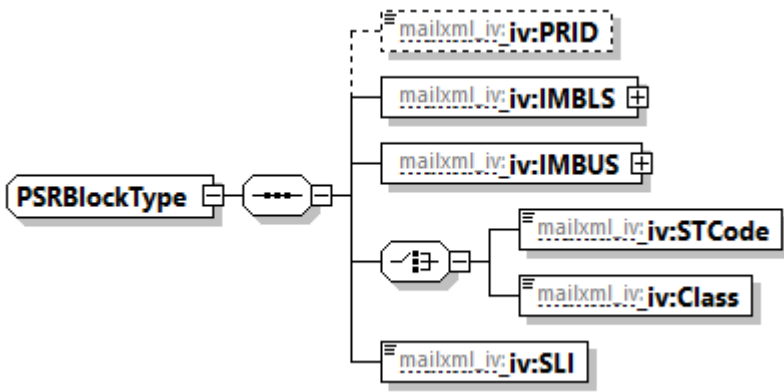
diagram	
namespace	http://delivery-tech.org/Specs/mailxml24.1/mailxml_iv
children	mailxml_iv:ScanState mailxml_iv:MPSQueryBy

complexType **MPSVisScanQueryType**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml24.1/mailxml_iv
children	mailxml_iv:UserLicenseCode mailxml_iv:MaildatJobID mailxml_iv:CustomerGroupID mailxml_iv:MailingGroupID mailxml_iv:ResultOptions mailxml_iv:RangeLowerDate mailxml_iv:RangeUpperDate mailxml_iv:MID6OnThePiece mailxml_iv:MID9OnThePiece mailxml_iv:FacilityLocaleKey mailxml_iv:EventType mailxml_iv:BundleScanType mailxml_iv:IMcb mailxml_iv:IMtb mailxml_iv:IMB mailxml_iv:BundleID mailxml_iv:FieldIncludedSc...

	mailxml_iv:FieldIncludedScanRecFlag
used by	element MPSVisQueryRequest/MPSVisScanQueryType

complexType **PSRBlockType**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml24.1/mailxml_iv
children	mailxml_iv:PRID mailxml_iv:IMBLS mailxml_iv:IMBUS mailxml_iv:STCode mailxml_iv:Class mailxml_iv:SLI

complexType **scanEventQueryType**

diagram	<p>The diagram illustrates the structure of the scanEventQueryType complex type. It is composed of the following elements and their cardinalities:</p> <ul style="list-style-type: none"> mailxml_iv:iv:UserLicenseCode (0..1) mailxml_iv:iv:MaildatJobID (0..1) mailxml_iv:iv:CustomerGroupID (0..1) mailxml_iv:iv:MailingGroupID (0..1) mailxml_iv:iv:ResultOptions (0..∞) mailxml_iv:iv:RangeLowerDate (0..1) mailxml_iv:iv:RangeUpperDate (0..1) mailxml_iv:iv:MID6OnThePiece (0..1) mailxml_iv:iv:MID9OnThePiece (0..1) mailxml_iv:iv:FacilityLocaleKey (0..1) mailxml_iv:iv:EventType (0..∞) mailxml_iv:iv:BundleScanType (0..∞) mailxml_iv:iv:IMcb (1..∞) mailxml_iv:iv:IMtb (1..∞) mailxml_iv:iv:IMB (1..∞) mailxml_iv:iv:BundleID (0..∞) mailxml_iv:iv:FieldIncludedSc... (0..∞)
namespace	http://delivery-tech.org/Specs/mailxml24.1/mailxml_iv
children	mailxml_iv:UserLicenseCode mailxml_iv:MaildatJobID mailxml_iv:CustomerGroupID mailxml_iv:MailingGroupID mailxml_iv:ResultOptions mailxml_iv:RangeLowerDate mailxml_iv:RangeUpperDate mailxml_iv:MID6OnThePiece mailxml_iv:MID9OnThePiece mailxml_iv:FacilityLocaleKey mailxml_iv:EventType mailxml_iv:BundleScanType mailxml_iv:IMcb mailxml_iv:IMtb mailxml_iv:IMB mailxml_iv:BundleID

	mailxml_iv:FieldIncludedScanRecFlag
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complexType **ScanEventResultOptionsType**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml24.1/mailxml_iv
children	mailxml_iv:IMcb mailxml_iv:IMtb mailxml_iv:IMB mailxml_iv:IMpb
used by	element scanEventQueryType/ResultOptions

simpleType **eDocType**

namespace	http://delivery-tech.org/Specs/mailxml24.1/mailxml_iv		
type	restriction of xs:string		
used by	elements MPSVisDelivery/eDocType MPSVisNotification/eDocType MPSVisQueryResponse/eDocType		
facets	Kind	Value	Annotation
	enumeration	101	
	enumeration	102	
	enumeration	103	
	enumeration	104	
	enumeration	105	
	enumeration	106	
	enumeration	107	
	enumeration	108	
	enumeration	109	
	enumeration	110	

simpleType **handlingEventType**

namespace	http://delivery-tech.org/Specs/mailxml24.1/mailxml_iv		
type	restriction of xs:string		
used by	elements	ContainerVisibilityQueryRequest/HandlingEventType ContainerVisibilityEntry/HandlingEventType	
facets	Kind	Value	Annotation
	enumeration	Actual	
	enumeration	Logical	

	enumeration	AssumedActual
	enumeration	AssumedLogical

simpleType **mailObjectTypeType**

namespace	http://delivery-tech.org/Specs/mailxml24.1/mailxml_iv	
type	restriction of xs:string	
used by	elements	ContainerVisibilityQueryRequest/MailObjectType ContainerVisibilityEntry/MailObjectType
facets	Kind	Value Annotation
	enumeration	Container
	enumeration	HandlingUnit

simpleType **recipientRoleType**

namespace	http://delivery-tech.org/Specs/mailxml24.1/mailxml_iv	
type	restriction of xs:string	
used by	elements	ContainerVisibilityQueryRequest/RecipientRole ContainerVisibilityEntry/RecipientRole
facets	Kind	Value Annotation
	enumeration	Mail Owner
	enumeration	Mail Owner Delegate
	enumeration	Mail Preparer
	enumeration	Mail Preparer Delegate
	enumeration	MID Owner of MID on Container
	enumeration	MID Owner of MID on Container Delegate
	enumeration	MID Owner of MID on Tray
	enumeration	MID Owner of MID on Tray Delegate
	enumeration	MID Owner of MID on Piece
	enumeration	MID Owner of MID on Piece Delegate
	enumeration	eDoc Submitter
	enumeration	eDoc Submitter Delegate
	enumeration	FAST Scheduler
	enumeration	FAST Scheduler Delegate

simpleType **scanEventCodeType**

namespace	http://delivery-tech.org/Specs/mailxml24.1/mailxml_iv	
type	restriction of xs:string	
used by	elements	ContainerVisibilityQueryRequest/ScanEventCode ContainerVisibilityEntry/ScanEventCode