

# ***Mail.XML Version 23.1***

## **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 23.1?

With this release, the Mail.XML Messaging Protocol moves to Version 23.1. This release supports structure changes required by mailing industry and Postal Service.

Changes supported by Mail.XML 23.1 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 ZoneICType 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://idealliance.org/Specs/mailxml23.1/mailxml>  
targetNamespace=<http://idealliance.org/Specs/mailxml23.1/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://idealliance.org/Specs/mailxml23.1A/mailxml" then at least one of the XSDs is at same version such as filename = 'Mail.XML\_23.1A.xsd' <- Errata A
- If the wrapper version is labeled as xmlns:mailxml="http://idealliance.org/Specs/mailxml23.1B/mailxml" then at least one of the XSDs is at same version such as filename = 'Mail.XML\_23.1B.xsd' <- Errata B
- If the wrapper version is labeled as xmlns:mailxml="http://idealliance.org/Specs/mailxml23.1/mailxml" then at least one of the XSDs is at same version such as filename = 'Mail.XML\_23.1.xsd' <- Major Version

## Mail.XML 23.1 XSD Modules:

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

Note: Actual xsd filenames include the version number (e.g. *mailxml\_base\_23.1.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™ 23.1 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 23.0. Updates in this Specification are NOT backwardly compatible with previous versions. Other documents in the specification set include:

- Mail.XML™ 23.1: Transportation Messaging Specification documents all transportation messages
- Mail.XML™ 23.1: Mailing Messaging Specification documents all mailing messages

- Mail.XML™ 23.1: Informed Visibility Specification documents all informed visibility messages
- Mail.XML™ 23.1: Data Distribution Messaging Specification documents all data distribution messages
- Mail.XML™ 23.1: Identification Messaging Specification documents all identification messages
- Mail.XML™ 23.1: Supply Chain Messaging Specification documents all supply chain messages
- Mail.XML™ 23.1: System Messaging Specification documents all systems and fault messages
- Mail.XML™ 23.1: Simple Types Specification documents all simple types used across Mail.XML messages
- Mail.XML™ 23.1: Common Definitions Specification documents all shared elements and complex types.
- Mail.XML™ 23.1: Schemas contains the .XSDs that make up the Mail.XML Messaging Specification

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# 1 Index

schema name: [mailxml iv 23.1.xsd](#)  
attributeFormDefault: **qualified**  
elementFormDefault: **qualified**  
targetNamespace: **[http://idealliance.org/Specs/mailxml23.1/mailxml\\_iv](http://idealliance.org/Specs/mailxml23.1/mailxml_iv)**

Complex types

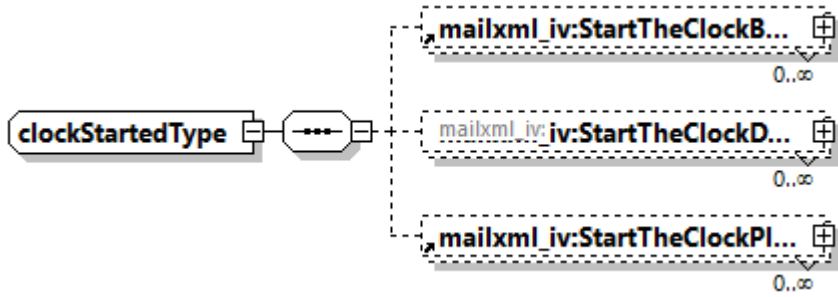
[clockStartedType](#)  
[manifestScanEventDetailType](#)  
[manifestScanNotificationDataType](#)  
[manifestScanQueryType](#)  
[MPSNotificationDataType](#)  
[MPSRequestTypeType](#)  
[MPSVisScanQueryType](#)  
[PSRBlockType](#)  
[scanEventQueryTypeType](#)  
[ScanEventResultOptionsType](#)

Simple types

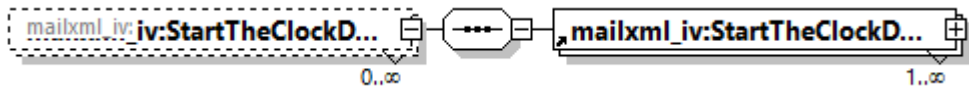
[eDocTypeType](#)  
[handlingEventTypeType](#)  
[mailObjectTypeType](#)  
[recipientRoleType](#)  
[scanEventCodeType](#)

## 2 Elements

complexType **clockStartedType**

diagram	
namespace	<a href="http://idealliance.org/Specs/mailxml23.1/mailxml_iv">http://idealliance.org/Specs/mailxml23.1/mailxml_iv</a>
children	<a href="#">mailxml_iv:StartTheClockBMEUBlock</a> <a href="#">mailxml iv:StartTheClockDropShipOrOriginBlock</a> <a href="#">mailxml_iv:StartTheClockPlantLoadBlock</a>
used by	elements <b>StartTheClockDelivery/ClockStarted</b> <b>StartTheClockQueryResponse/QueryResults/ClockStarted</b>

element **clockStartedType/StartTheClockDropShipOrOriginBlock**

diagram	
namespace	<a href="http://idealliance.org/Specs/mailxml23.1/mailxml_iv">http://idealliance.org/Specs/mailxml23.1/mailxml_iv</a>
children	<a href="#">mailxml_iv:StartTheClockDropShipOrOrigin</a>

complexType **manifestScanEventDetailType**

diagram



namespace

[http://idealliance.org/Specs/mailxml23.1/mailxml\\_iv](http://idealliance.org/Specs/mailxml23.1/mailxml_iv)




children	<a href="#">mailxml iv:USPSEventExtractFileVersionNumber</a> <a href="#">mailxml iv:IMpb</a> <a href="#">mailxml iv:ElectronicFileNumber</a> <a href="#">mailxml iv:MailerID</a> <a href="#">mailxml iv:MailerName</a> <a href="#">mailxml iv:DestinationZipCode</a> <a href="#">mailxml iv:DestinationZipPlusFour</a> <a href="#">mailxml iv:ScanningFacilityZip</a> <a href="#">mailxml iv:ScanningFacilityName</a> <a href="#">mailxml iv:EventCode</a> <a href="#">mailxml iv:EventName</a> <a href="#">mailxml iv:EventDate</a> <a href="#">mailxml iv:EventTime</a> <a href="#">mailxml iv:MailerOwnerID</a> <a href="#">mailxml iv:CustomerReferenceID</a> <a href="#">mailxml iv:DestinationCountryCode</a> <a href="#">mailxml iv:RecipientName</a> <a href="#">mailxml iv:OriginalLabel</a> <a href="#">mailxml iv:UnitofMeasureCode</a> <a href="#">mailxml iv:Weight</a> <a href="#">mailxml iv:GuaranteedDeliveryDate</a> <a href="#">mailxml iv:GuaranteedDeliveryTime</a> <a href="#">mailxml iv:LogisticsManagerMailerID</a>		
used by	elements	<b>MPSVisDelivery/ManifestScanEvent/ManifestScanEventDetail</b> <b>MPSVisQueryResponse/QueryResults/ManifestScanEvent/ManifestScanEventDetail</b> <b>MPSVisDelivery/UnManifestedScanEventDetail</b> <b>MPSVisQueryResponse/QueryResults/UnManifestedScanEventDetail</b>	

element **manifestScanEventDetailType/USPSEventExtractFileVersionNumber**

diagram			
namespace	http://idealliance.org/Specs/mailxml23.1/mailxml_iv		
type	<b>mailxml_base:s03</b>		
facets	Kind	Value	Annotation
	minLength	1	
	maxLength	3	
	whiteSpace	preserve	

element **manifestScanEventDetailType/IMpb**

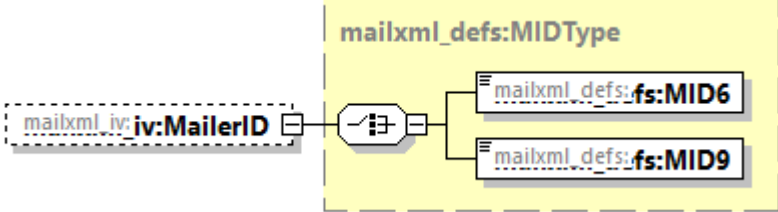
diagram			
namespace	http://idealliance.org/Specs/mailxml23.1/mailxml_iv		
type	<b>mailxml_base:IMpbType</b>		
facets	Kind	Value	Annotation
	minLength	21	
	maxLength	34	

element **manifestScanEventDetailType/ElectronicFileNumber**

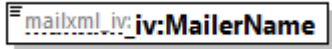
diagram			
namespace	http://idealliance.org/Specs/mailxml23.1/mailxml_iv		
type	<b>mailxml_base:s34</b>		
facets	Kind	Value	Annotation
	minLength	1	

	maxLength 34 whiteSpace preserve
--	-------------------------------------


element **manifestScanEventDetailType/MailerID**

diagram	 The diagram shows the MailerID element as a dashed box containing the text 'mailxml_iv:iv:MailerID'. This box is connected to a central node, which then branches into two separate boxes labeled 'mailxml_defs:fs:MID6' and 'mailxml_defs:fs:MID9'. These two boxes are enclosed within a larger yellow dashed box labeled 'mailxml_defs:MIDType'.
namespace	http://idealliance.org/Specs/mailxml23.1/mailxml_iv
type	<b>mailxml_defs:MIDType</b>
children	<b>mailxml_defs:MID6 mailxml_defs:MID9</b>

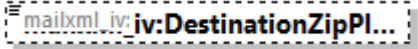
element **manifestScanEventDetailType/MailerName**

diagram			
namespace	http://idealliance.org/Specs/mailxml23.1/mailxml_iv		
type	mailxml_base:s20		
facets	Kind	Value	Annotation
	minLength	1	
	maxLength	20	
	whiteSpace	preserve	

element **manifestScanEventDetailType/DestinationZipCode**

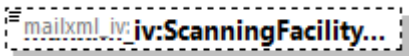
diagram	 The diagram shows the DestinationZipCode element as a dashed box containing the text 'mailxml_iv:iv:DestinationZipC...'.
namespace	http://idealliance.org/Specs/mailxml23.1/mailxml_iv
type	<b>mailxml_defs:zipCode</b>

element **manifestScanEventDetailType/DestinationZipPlusFour**

diagram	 The diagram shows the DestinationZipPlusFour element as a dashed box containing the text 'mailxml_iv:iv:DestinationZipPI...'.
namespace	http://idealliance.org/Specs/mailxml23.1/mailxml_iv
type	<b>mailxml_base:s09</b>

facets	Kind	Value	Annotation
	minLength	1	
	maxLength	9	
	whiteSpace	preserve	


element **manifestScanEventDetailType/ScanningFacilityZip**

diagram	
namespace	http://idealliance.org/Specs/mailxml23.1/mailxml_iv
type	<b>mailxml_defs:zipCode</b>

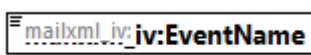
element **manifestScanEventDetailType/ScanningFacilityName**

diagram			
namespace	http://idealliance.org/Specs/mailxml23.1/mailxml_iv		
type	mailxml_base:s31		
facets	Kind	Value	Annotation
	minLength	1	
	maxLength	31	
	whiteSpace	preserve	

element **manifestScanEventDetailType/EventCode**


diagram			
namespace	http://idealliance.org/Specs/mailxml23.1/mailxml_iv		
type	mailxml_base:s02		
facets	Kind	Value	Annotation
	minLength	1	
	maxLength	2	
	whiteSpace	preserve	

element **manifestScanEventDetailType/EventName**

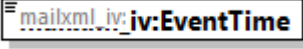
diagram				
namespace	http://idealliance.org/Specs/mailxml23.1/mailxml_iv			
type	<b>mailxml_base:s40</b>			
facets	<table><tr><td>Kind</td><td>Value</td><td>Annotation</td></tr></table>	Kind	Value	Annotation
Kind	Value	Annotation		

	minLength 1 maxLength 40 whiteSpace preserve
--	--

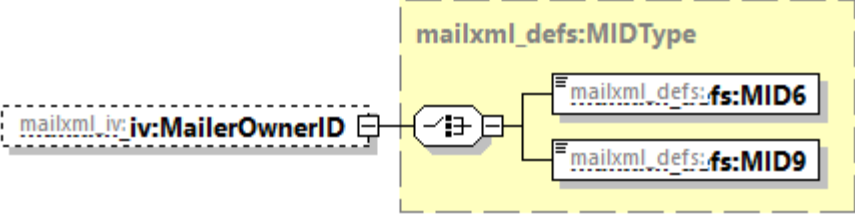
element **manifestScanEventDetailType/EventDate**

diagram	 A diagram showing the element <code>manifestScanEventDetailType/EventDate</code> with a dashed border and a small icon in the top left corner.
namespace	http://idealliance.org/Specs/mailxml23.1/mailxml_iv
type	<b>xs:date</b>


element **manifestScanEventDetailType/EventTime**

diagram	 A diagram showing the element <code>manifestScanEventDetailType/EventTime</code> with a dashed border and a small icon in the top left corner.
namespace	http://idealliance.org/Specs/mailxml23.1/mailxml_iv
type	<b>xs:time</b>


element **manifestScanEventDetailType/MailerOwnerID**

diagram	 A diagram showing the element <code>manifestScanEventDetailType/MailerOwnerID</code> with a dashed border and a small icon in the top left corner. It is connected to a yellow box labeled <code>mailxml_defs:MIDType</code> which contains two sub-elements: <code>mailxml_defs:fs:MID6</code> and <code>mailxml_defs:fs:MID9</code> .
namespace	http://idealliance.org/Specs/mailxml23.1/mailxml_iv
type	<b>mailxml_defs:MIDType</b>
children	<b>mailxml_defs:MID6 mailxml_defs:MID9</b>


element **manifestScanEventDetailType/CustomerReferenceID**

diagram			
namespace	http://idealliance.org/Specs/mailxml23.1/mailxml_iv		
type	mailxml_base:s40		
facets	Kind	Value	Annotation
	minLength	1	
	maxLength	40	
	whiteSpace	preserve	

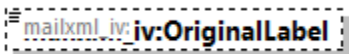
element **manifestScanEventDetailType/DestinationCountryCode**

diagram			
namespace	http://idealliance.org/Specs/mailxml23.1/mailxml_iv		
type	<b>mailxml_base:s02</b>		
facets	Kind	Value	Annotation
	minLength	1	
	maxLength	2	
	whiteSpace	preserve	

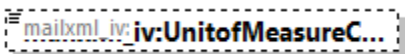
element **manifestScanEventDetailType/RecipientName**

diagram			
namespace	http://idealliance.org/Specs/mailxml23.1/mailxml_iv		
type	<b>mailxml_base:s20</b>		
facets	Kind	Value	Annotation
	minLength	1	
	maxLength	20	
	whiteSpace	preserve	


element **manifestScanEventDetailType/OriginalLabel**

diagram			
namespace	http://idealliance.org/Specs/mailxml23.1/mailxml_iv		
type	<b>mailxml_base:s34</b>		
facets	Kind	Value	Annotation
	minLength	1	
	maxLength	34	
	whiteSpace	preserve	

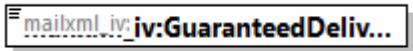
element **manifestScanEventDetailType/UnitofMeasureCode**

diagram			
namespace	http://idealliance.org/Specs/mailxml23.1/mailxml_iv		
type	<b>mailxml_base:ns01</b>		

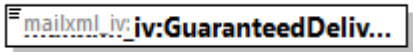
element **manifestScanEventDetailType/Weight**

diagram	 The diagram shows a dashed box containing the text 'mailxml_iv:iv:Weight'.
namespace	http://idealliance.org/Specs/mailxml23.1/mailxml_iv
type	<b>mailxml_base:ns09</b>

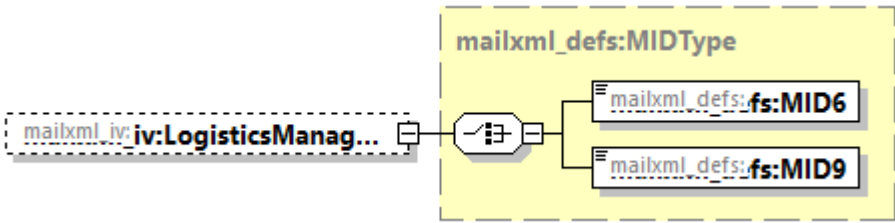
element **manifestScanEventDetailType/GuaranteedDeliveryDate**

diagram	 The diagram shows a dashed box containing the text 'mailxml_iv:iv:GuaranteedDeliv...'.
namespace	http://idealliance.org/Specs/mailxml23.1/mailxml_iv
type	<b>xs:time</b>

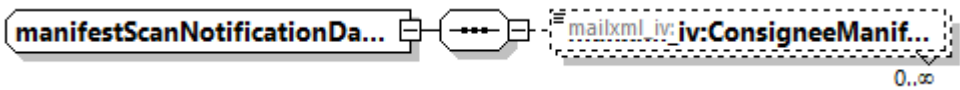
element **manifestScanEventDetailType/GuaranteedDeliveryTime**

diagram	 The diagram shows a dashed box containing the text 'mailxml_iv:iv:GuaranteedDeliv...'.
namespace	http://idealliance.org/Specs/mailxml23.1/mailxml_iv
type	<b>xs:time</b>

element **manifestScanEventDetailType/LogisticsManagerMailerID**

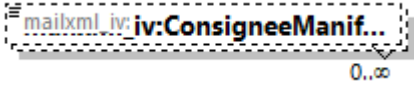
diagram	 The diagram shows a dashed box containing the text 'mailxml_iv:iv:LogisticsManag...'. This box is connected to a yellow box labeled 'mailxml_defs:MIDType'. Inside the yellow box, there is a circle with a minus sign and a plus sign, which is connected to two smaller boxes labeled 'mailxml_defs:fs:MID6' and 'mailxml_defs:fs:MID9'.
namespace	http://idealliance.org/Specs/mailxml23.1/mailxml_iv
type	<b>mailxml_defs:MIDType</b>
children	<b>mailxml_defs:MID6 mailxml_defs:MID9</b>

complexType **manifestScanNotificationData**

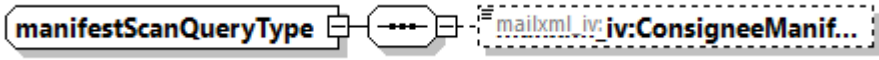
diagram	 The diagram shows a rounded rectangle containing the text 'manifestScanNotificationDa...'. This rectangle is connected to a circle with a minus sign and a plus sign, which is then connected to a dashed box containing the text 'mailxml_iv:iv:ConsigneeManif...'. Below the dashed box, the text '0..∞' is written.
namespace	http://idealliance.org/Specs/mailxml23.1/mailxml_iv

children	<a href="#">mailxml iv:ConsigneeManifestID</a>
used by	element <b>MPSVisNotification/ManifestScanNotification</b>

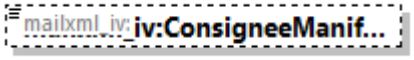
element **manifestScanNotificationDataType/ConsigneeManifestID**

diagram	 The diagram shows a dashed box containing the text 'mailxml iv:ConsigneeManifestID' with a cardinality of '0..∞' below it.
namespace	http://idealliance.org/Specs/mailxml23.1/mailxml_iv
type	<b>mailxml_base:ns22</b>

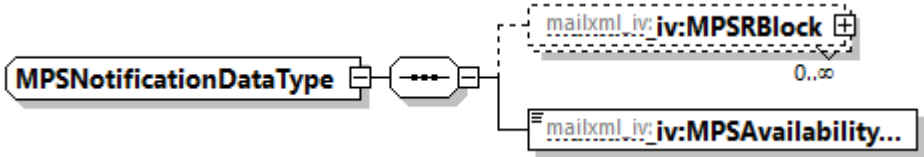
complexType **manifestScanQueryType**

diagram	 The diagram shows a rounded rectangle labeled 'manifestScanQueryType' connected to a dashed box containing 'mailxml iv:ConsigneeManifestID' with a cardinality of '0..∞'.
namespace	http://idealliance.org/Specs/mailxml23.1/mailxml_iv
children	<a href="#">mailxml iv:ConsigneeManifestID</a>
used by	element <b>MPSVisQueryRequest/ManifestScanQuery</b>

element **manifestScanQueryType/ConsigneeManifestID**

diagram	 The diagram shows a dashed box containing the text 'mailxml iv:ConsigneeManifestID'.
namespace	http://idealliance.org/Specs/mailxml23.1/mailxml_iv
type	<b>mailxml_base:ns22</b>

complexType **MPSNotificationDataType**

diagram	 The diagram shows a rounded rectangle labeled 'MPSNotificationDataType' connected to two dashed boxes. The top box contains 'mailxml iv:MPSRBlock' with a cardinality of '0..∞' and a plus sign icon. The bottom box contains 'mailxml iv:MPSAvailabilityDate'.
namespace	http://idealliance.org/Specs/mailxml23.1/mailxml_iv
children	<a href="#">mailxml iv:MPSRBlock</a> <a href="#">mailxml iv:MPSAvailabilityDate</a>
used by	element <b>MPSVisNotification/MPSNotificationData</b>

element **MPSNotificationDataType/MPSRBlock**

diagram	
namespace	http://idealliance.org/Specs/mailxml23.1/mailxml_iv
type	<b>mailxml_defs:MPSRBlockType</b>
children	<b>mailxml_defs:ContainerID mailxml_defs:PSRBlock</b>

element **MPSNotificationDataType/MPSAvailabilityDate**

diagram	
namespace	http://idealliance.org/Specs/mailxml23.1/mailxml_iv
type	<b>xs:date</b>

complexType **MPSRequestTypeType**

diagram	
namespace	http://idealliance.org/Specs/mailxml23.1/mailxml_iv
children	<a href="#">mailxml iv:ScanState</a> <a href="#">mailxml iv:MPSQueryBy</a>

element **MPSRequestTypeType/ScanState**

diagram			
namespace	http://idealliance.org/Specs/mailxml23.1/mailxml_iv		
type	mailxml_defs:MPSStateType		
facets	Kind	Value	Annotation
	enumeration	1	
	enumeration	2	
	enumeration	3	
	enumeration	4	



	enumeration	5
	enumeration	6
	enumeration	7
	enumeration	8
	enumeration	9
	enumeration	10
	enumeration	11
	enumeration	12
	enumeration	13
	enumeration	14
	enumeration	15
	enumeration	16
	enumeration	17
	enumeration	18
	enumeration	19
	enumeration	20
	enumeration	21
	enumeration	22
	enumeration	23
	enumeration	24
	enumeration	25
	enumeration	26
	enumeration	27
	enumeration	28
	enumeration	29
	enumeration	30

element **MPSRequestType/MPSQueryBy**


diagram			
namespace	http://idealliance.org/Specs/mailxml23.1/mailxml_iv		
type	<b>mailxml_defs:MPSQueryType</b>		
facets	Kind	Value	Annotation
	enumeration	A	
	enumeration	S	
	enumeration	PC	
	enumeration	BC	

complexType **MPSVisScanQueryType**


diagram	
namespace	http://idealliance.org/Specs/mailxml23.1/mailxml_iv
children	<a href="#">mailxml iv:UserLicenseCode</a> <a href="#">mailxml iv:MaildatJobID</a> <a href="#">mailxml iv:CustomerGroupID</a> <a href="#">mailxml iv:MailingGroupID</a> <a href="#">mailxml iv:ResultOptions</a> <a href="#">mailxml iv:RangeLowerDate</a> <a href="#">mailxml iv:RangeUpperDate</a> <a href="#">mailxml iv:MID6OnThePiece</a> <a href="#">mailxml iv:MID9OnThePiece</a> <a href="#">mailxml iv:FacilityLocaleKey</a> <a href="#">mailxml iv:EventType</a> <a href="#">mailxml iv:BundleScanType</a> <a href="#">mailxml iv:IMcb</a> <a href="#">mailxml iv:IMtb</a> <a href="#">mailxml iv:IMB</a> <a href="#">mailxml iv:BundleID</a> <a href="#">mailxml iv:FieldIncludedSc...</a>

	<a href="#">mailxml iv:FieldIncludedScanRecFlag</a>
used by	element <b>MPSVisQueryRequest/MPSVisScanQueryType</b>

element **MPSVisScanQueryType/UserLicenseCode**

diagram			
namespace	http://idealliance.org/Specs/mailxml23.1/mailxml_iv		
type	<b>mailxml_base:userLicenseCodeType</b>		
facets	Kind	Value	Annotation
	minLength	1	
	maxLength	4	
	whiteSpace	preserve	


element **MPSVisScanQueryType/MaildatJobID**

diagram			
namespace	http://idealliance.org/Specs/mailxml23.1/mailxml_iv		
type	<b>mailxml_base:jobIDType</b>		
facets	Kind	Value	Annotation
	minLength	1	
	maxLength	8	
	whiteSpace	preserve	

element **MPSVisScanQueryType/CustomerGroupID**

diagram			
namespace	http://idealliance.org/Specs/mailxml23.1/mailxml_iv		
type	<b>mailxml_base:s25</b>		
facets	Kind	Value	Annotation
	minLength	1	
	maxLength	25	
	whiteSpace	preserve	

element **MPSVisScanQueryType/MailingGroupID**

diagram			
namespace	http://idealliance.org/Specs/mailxml23.1/mailxml_iv		

type	<b>xs:nonNegativeInteger</b>
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element **MPSVisScanQueryType/ResultOptions**

diagram	
namespace	<a href="http://idealliance.org/Specs/mailxml23.1/mailxml_iv">http://idealliance.org/Specs/mailxml23.1/mailxml_iv</a>
type	<b>mailxml_defs:MPSVisResultOptionsType</b>
children	<b>mailxml_defs:IMcb mailxml_defs:IMtb mailxml_defs:IMB mailxml_defs:IMpb</b>

element **MPSVisScanQueryType/RangeLowerDate**

diagram	
namespace	<a href="http://idealliance.org/Specs/mailxml23.1/mailxml_iv">http://idealliance.org/Specs/mailxml23.1/mailxml_iv</a>
type	<b>xs:date</b>


element **MPSVisScanQueryType/RangeUpperDate**

diagram	
namespace	<a href="http://idealliance.org/Specs/mailxml23.1/mailxml_iv">http://idealliance.org/Specs/mailxml23.1/mailxml_iv</a>
type	<b>xs:date</b>

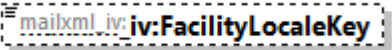
element **MPSVisScanQueryType/MID6OnThePiece**

diagram	
namespace	<a href="http://idealliance.org/Specs/mailxml23.1/mailxml_iv">http://idealliance.org/Specs/mailxml23.1/mailxml_iv</a>
type	<b>mailxml_base:mailerID6Type</b>

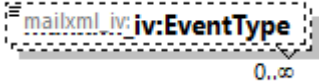
element **MPSVisScanQueryType/MID9OnThePiece**

diagram	
namespace	http://idealliance.org/Specs/mailxml23.1/mailxml_iv
type	<b>mailxml_base:mailerID9Type</b>

element **MPSVisScanQueryType/FacilityLocaleKey**


diagram													
namespace	http://idealliance.org/Specs/mailxml23.1/mailxml_iv												
type	<b>mailxml_base:localeKeyType</b>												
facets	<table><tr><th>Kind</th><th>Value</th><th>Annotation</th></tr><tr><td>minLength</td><td>1</td><td></td></tr><tr><td>maxLength</td><td>9</td><td></td></tr><tr><td>whiteSpace</td><td>preserve</td><td></td></tr></table>	Kind	Value	Annotation	minLength	1		maxLength	9		whiteSpace	preserve	
Kind	Value	Annotation											
minLength	1												
maxLength	9												
whiteSpace	preserve												

element **MPSVisScanQueryType/EventType**


diagram																																																							
namespace	http://idealliance.org/Specs/mailxml23.1/mailxml_iv																																																						
type	<b>mailxml_defs:pieceScanEventTypeType</b>																																																						
facets	<table><tr><th>Kind</th><th>Value</th><th>Annotation</th></tr><tr><td>enumeration</td><td>1</td><td></td></tr><tr><td>enumeration</td><td>2</td><td></td></tr><tr><td>enumeration</td><td>3</td><td></td></tr><tr><td>enumeration</td><td>4</td><td></td></tr><tr><td>enumeration</td><td>5</td><td></td></tr><tr><td>enumeration</td><td>6</td><td></td></tr><tr><td>enumeration</td><td>7</td><td></td></tr><tr><td>enumeration</td><td>8</td><td></td></tr><tr><td>enumeration</td><td>9</td><td></td></tr><tr><td>enumeration</td><td>10</td><td></td></tr><tr><td>enumeration</td><td>11</td><td></td></tr><tr><td>enumeration</td><td>12</td><td></td></tr><tr><td>enumeration</td><td>13</td><td></td></tr><tr><td>enumeration</td><td>14</td><td></td></tr><tr><td>enumeration</td><td>15</td><td></td></tr><tr><td>enumeration</td><td>16</td><td></td></tr><tr><td>enumeration</td><td>17</td><td></td></tr></table>	Kind	Value	Annotation	enumeration	1		enumeration	2		enumeration	3		enumeration	4		enumeration	5		enumeration	6		enumeration	7		enumeration	8		enumeration	9		enumeration	10		enumeration	11		enumeration	12		enumeration	13		enumeration	14		enumeration	15		enumeration	16		enumeration	17	
Kind	Value	Annotation																																																					
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	enumeration	18
	enumeration	19
	enumeration	20


element **MPSVisScanQueryType/BundleScanType**

diagram			
namespace	http://idealliance.org/Specs/mailxml23.1/mailxml_iv		
type	<b>mailxml_defs:bundleScanTypeType</b>		
facets	Kind	Value	Annotation
	enumeration	ActualScan	
	enumeration	AssumedScan	
	enumeration	Both	

element **MPSVisScanQueryType/IMcb**

diagram			
namespace	http://idealliance.org/Specs/mailxml23.1/mailxml_iv		
type	<b>mailxml_base:IMcbType</b>		
facets	Kind	Value	Annotation
	minLength	21	
	maxLength	24	

element **MPSVisScanQueryType/IMtb**

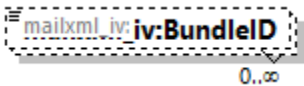
diagram			
namespace	http://idealliance.org/Specs/mailxml23.1/mailxml_iv		
type	<b>mailxml_base:IMtbType</b>		
facets	Kind	Value	Annotation
	minLength	24	
	maxLength	24	

element **MPSVisScanQueryType/IMB**

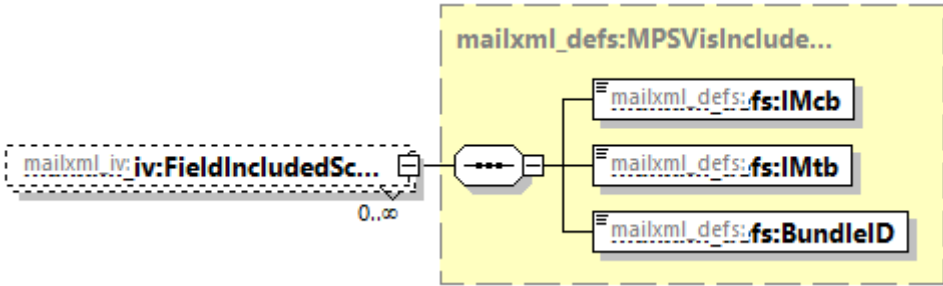
diagram			
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namespace	http://idealliance.org/Specs/mailxml23.1/mailxml_iv		
type	<b>mailxml_base:IMBType</b>		
facets	Kind	Value	Annotation
	minLength	20	
	maxLength	34	

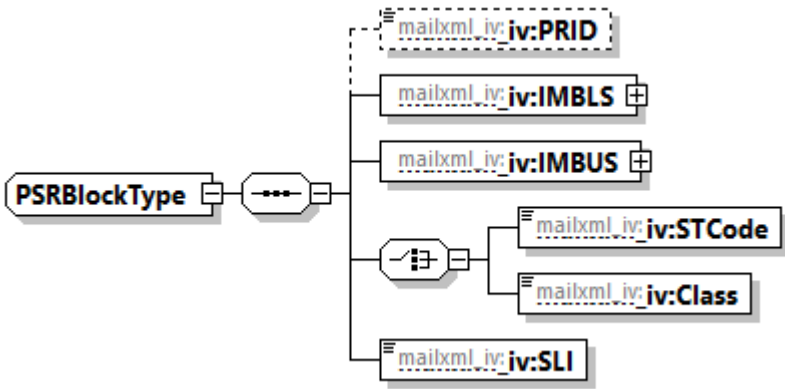
element **MPSVisScanQueryType/BundleID**

diagram			
namespace	http://idealliance.org/Specs/mailxml23.1/mailxml_iv		
type	<b>mailxml_base:s06</b>		
facets	Kind	Value	Annotation
	minLength	1	
	maxLength	6	
	whiteSpace	preserve	


element **MPSVisScanQueryType/FieldIncludedScanRecFlag**

diagram			
namespace	http://idealliance.org/Specs/mailxml23.1/mailxml_iv		
type	<b>mailxml_defs:MPSVisIncludedInScanRecFlagType</b>		
children	<b>mailxml_defs:IMcb mailxml_defs:IMtb mailxml_defs:BundleID</b>		

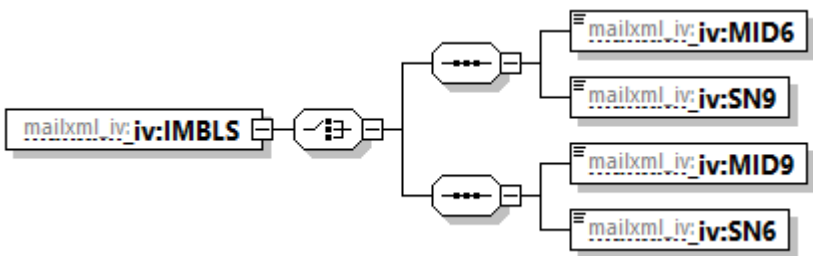
## complexType PSRBlockType

diagram	
namespace	http://idealliance.org/Specs/mailxml23.1/mailxml_iv
children	<a href="#">mailxml iv:PRID</a> <a href="#">mailxml iv:IMBLS</a> <a href="#">mailxml iv:IMBUS</a> <a href="#">mailxml iv:STCode</a> <a href="#">mailxml iv:Class</a> <a href="#">mailxml iv:SLI</a>

## element PSRBlockType/PRID


diagram			
namespace	http://idealliance.org/Specs/mailxml23.1/mailxml_iv		
type	mailxml_base:s22		
facets	Kind	Value	Annotation
	minLength	1	
	maxLength	22	
	whiteSpace	preserve	

## element PSRBlockType/IMBLS

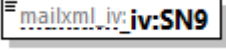
diagram	
namespace	http://idealliance.org/Specs/mailxml23.1/mailxml_iv
children	<a href="#">mailxml iv:MID6</a> <a href="#">mailxml iv:SN9</a> <a href="#">mailxml iv:MID9</a> <a href="#">mailxml iv:SN6</a>




element **PSRBlockType/IMBLS/MID6**

diagram	
namespace	http://idealliance.org/Specs/mailxml23.1/mailxml_iv
type	<b>mailxml_base:mailerID6Type</b>

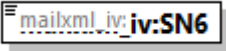
element **PSRBlockType/IMBLS/SN9**

diagram	
namespace	http://idealliance.org/Specs/mailxml23.1/mailxml_iv
type	<b>mailxml_base:iMBSerialNumber9Type</b>

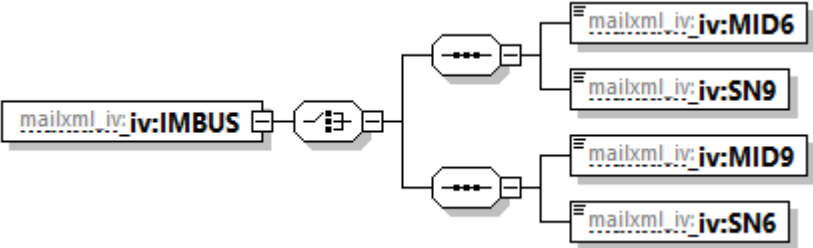
element **PSRBlockType/IMBLS/MID9**

diagram	
namespace	http://idealliance.org/Specs/mailxml23.1/mailxml_iv
type	<b>mailxml_base:mailerID9Type</b>

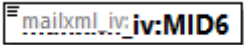
element **PSRBlockType/IMBLS/SN6**

diagram	
namespace	http://idealliance.org/Specs/mailxml23.1/mailxml_iv
type	<b>mailxml_base:iMBSerialNumber6Type</b>

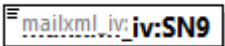
element **PSRBlockType/IMBUS**

diagram	
namespace	http://idealliance.org/Specs/mailxml23.1/mailxml_iv
children	<a href="#">mailxml iv:MID6</a> <a href="#">mailxml iv:SN9</a> <a href="#">mailxml iv:MID9</a> <a href="#">mailxml iv:SN6</a>


element **PSRBlockType/IMBUS/MID6**

diagram	
namespace	<a href="http://idealliance.org/Specs/mailxml23.1/mailxml_iv">http://idealliance.org/Specs/mailxml23.1/mailxml_iv</a>
type	<b>mailxml_base:mailerID6Type</b>

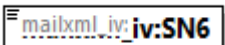
element **PSRBlockType/IMBUS/SN9**

diagram	
namespace	<a href="http://idealliance.org/Specs/mailxml23.1/mailxml_iv">http://idealliance.org/Specs/mailxml23.1/mailxml_iv</a>
type	<b>mailxml_base:iMBSerialNumber9Type</b>

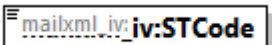
element **PSRBlockType/IMBUS/MID9**

diagram	
namespace	<a href="http://idealliance.org/Specs/mailxml23.1/mailxml_iv">http://idealliance.org/Specs/mailxml23.1/mailxml_iv</a>
type	<b>mailxml_base:mailerID9Type</b>

element **PSRBlockType/IMBUS/SN6**

diagram	
namespace	<a href="http://idealliance.org/Specs/mailxml23.1/mailxml_iv">http://idealliance.org/Specs/mailxml23.1/mailxml_iv</a>
type	<b>mailxml_base:iMBSerialNumber6Type</b>

element **PSRBlockType/STCode**

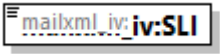
diagram	
namespace	<a href="http://idealliance.org/Specs/mailxml23.1/mailxml_iv">http://idealliance.org/Specs/mailxml23.1/mailxml_iv</a>
type	<b>mailxml_base:ServiceTypeCodeType</b>

element **PSRBlockType/Class**

diagram	
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namespace	http://idealliance.org/Specs/mailxml23.1/mailxml_iv		
type	<b>mailxml_base:mailClassType</b>		
facets	Kind	Value	Annotation
	enumeration	1	
	enumeration	2	
	enumeration	3	
	enumeration	4	
	enumeration	6	

element **PSRBlockType/SLI**


diagram			
namespace	http://idealliance.org/Specs/mailxml23.1/mailxml_iv		
type	<b>mailxml_base:serviceLevelIndicatorType</b>		
facets	Kind	Value	Annotation
	enumeration	F	
	enumeration	B	
	enumeration	P	
	enumeration	O	

# complexType **scanEventQueryType**

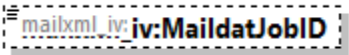
diagram	
namespace	http://idealliance.org/Specs/mailxml23.1/mailxml_iv
children	<a href="#">mailxml iv:UserLicenseCode</a> <a href="#">mailxml iv:MaildatJobID</a> <a href="#">mailxml iv:CustomerGroupID</a> <a href="#">mailxml iv:MailingGroupID</a> <a href="#">mailxml iv:ResultOptions</a> <a href="#">mailxml iv:RangeLowerDate</a> <a href="#">mailxml iv:RangeUpperDate</a> <a href="#">mailxml iv:MID6OnThePiece</a> <a href="#">mailxml iv:MID9OnThePiece</a> <a href="#">mailxml iv:FacilityLocaleKey</a> <a href="#">mailxml iv:EventType</a> <a href="#">mailxml iv:BundleScanType</a> <a href="#">mailxml iv:IMcb</a> <a href="#">mailxml iv:IMtb</a> <a href="#">mailxml iv:IMB</a> <a href="#">mailxml iv:BundleID</a> <a href="#">mailxml iv:FieldIncludedSc...</a>

	<a href="#">mailxml iv:FieldIncludedScanRecFlag</a>
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element **scanEventQueryTypeType/UserLicenseCode**

diagram			
namespace	http://idealliance.org/Specs/mailxml23.1/mailxml_iv		
type	<b>mailxml_base:userLicenseCodeType</b>		
facets	Kind	Value	Annotation
	minLength	1	
	maxLength	4	
	whiteSpace	preserve	

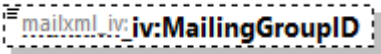
element **scanEventQueryTypeType/MaildatJobID**

diagram			
namespace	http://idealliance.org/Specs/mailxml23.1/mailxml_iv		
type	<b>mailxml_base:jobIDType</b>		
facets	Kind	Value	Annotation
	minLength	1	
	maxLength	8	
	whiteSpace	preserve	

element **scanEventQueryTypeType/CustomerGroupID**

diagram			
namespace	http://idealliance.org/Specs/mailxml23.1/mailxml_iv		
type	<b>mailxml_base:s25</b>		
facets	Kind	Value	Annotation
	minLength	1	
	maxLength	25	
	whiteSpace	preserve	

element **scanEventQueryTypeType/MailingGroupID**

diagram			
namespace	http://idealliance.org/Specs/mailxml23.1/mailxml_iv		
type	<b>xs:nonNegativeInteger</b>		

element **scanEventQueryType/ResultOptions**

diagram	
namespace	<a href="http://idealliance.org/Specs/mailxml23.1/mailxml_iv">http://idealliance.org/Specs/mailxml23.1/mailxml_iv</a>
type	<a href="#">mailxml iv:ScanEventResultOptionsType</a>
children	<a href="#">mailxml iv:IMcb</a> <a href="#">mailxml iv:IMtb</a> <a href="#">mailxml iv:IMB</a> <a href="#">mailxml iv:IMpb</a>

element **scanEventQueryType/RangeLowerDate**

diagram	
namespace	<a href="http://idealliance.org/Specs/mailxml23.1/mailxml_iv">http://idealliance.org/Specs/mailxml23.1/mailxml_iv</a>
type	<b>xs:date</b>


element **scanEventQueryType/RangeUpperDate**

diagram	
namespace	<a href="http://idealliance.org/Specs/mailxml23.1/mailxml_iv">http://idealliance.org/Specs/mailxml23.1/mailxml_iv</a>
type	<b>xs:date</b>

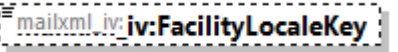
element **scanEventQueryType/MID6OnThePiece**

diagram	
namespace	<a href="http://idealliance.org/Specs/mailxml23.1/mailxml_iv">http://idealliance.org/Specs/mailxml23.1/mailxml_iv</a>
type	<b>mailxml_base:mailerID6Type</b>

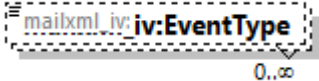
element **scanEventQueryType/MID9OnThePiece**

diagram	
namespace	http://idealliance.org/Specs/mailxml23.1/mailxml_iv
type	<b>mailxml_base:mailerID9Type</b>

element **scanEventQueryType/FacilityLocaleKey**


diagram													
namespace	http://idealliance.org/Specs/mailxml23.1/mailxml_iv												
type	<b>mailxml_base:localeKeyType</b>												
facets	<table><tr><th>Kind</th><th>Value</th><th>Annotation</th></tr><tr><td>minLength</td><td>1</td><td></td></tr><tr><td>maxLength</td><td>9</td><td></td></tr><tr><td>whiteSpace</td><td>preserve</td><td></td></tr></table>	Kind	Value	Annotation	minLength	1		maxLength	9		whiteSpace	preserve	
Kind	Value	Annotation											
minLength	1												
maxLength	9												
whiteSpace	preserve												

element **scanEventQueryType/EventType**


diagram																																																							
namespace	http://idealliance.org/Specs/mailxml23.1/mailxml_iv																																																						
type	<b>mailxml_defs:pieceScanEventTypeType</b>																																																						
facets	<table><tr><th>Kind</th><th>Value</th><th>Annotation</th></tr><tr><td>enumeration</td><td>1</td><td></td></tr><tr><td>enumeration</td><td>2</td><td></td></tr><tr><td>enumeration</td><td>3</td><td></td></tr><tr><td>enumeration</td><td>4</td><td></td></tr><tr><td>enumeration</td><td>5</td><td></td></tr><tr><td>enumeration</td><td>6</td><td></td></tr><tr><td>enumeration</td><td>7</td><td></td></tr><tr><td>enumeration</td><td>8</td><td></td></tr><tr><td>enumeration</td><td>9</td><td></td></tr><tr><td>enumeration</td><td>10</td><td></td></tr><tr><td>enumeration</td><td>11</td><td></td></tr><tr><td>enumeration</td><td>12</td><td></td></tr><tr><td>enumeration</td><td>13</td><td></td></tr><tr><td>enumeration</td><td>14</td><td></td></tr><tr><td>enumeration</td><td>15</td><td></td></tr><tr><td>enumeration</td><td>16</td><td></td></tr><tr><td>enumeration</td><td>17</td><td></td></tr></table>	Kind	Value	Annotation	enumeration	1		enumeration	2		enumeration	3		enumeration	4		enumeration	5		enumeration	6		enumeration	7		enumeration	8		enumeration	9		enumeration	10		enumeration	11		enumeration	12		enumeration	13		enumeration	14		enumeration	15		enumeration	16		enumeration	17	
Kind	Value	Annotation																																																					
enumeration	1																																																						
enumeration	2																																																						
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enumeration	5																																																						
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	enumeration	18
	enumeration	19
	enumeration	20


element **scanEventQueryTypeType/BundleScanType**

diagram			
namespace	http://idealliance.org/Specs/mailxml23.1/mailxml_iv		
type	<b>mailxml_defs:bundleScanTypeType</b>		
facets	Kind	Value	Annotation
	enumeration	ActualScan	
	enumeration	AssumedScan	
	enumeration	Both	

element **scanEventQueryTypeType/IMcb**

diagram			
namespace	http://idealliance.org/Specs/mailxml23.1/mailxml_iv		
type	<b>mailxml_base:IMcbType</b>		
facets	Kind	Value	Annotation
	minLength	21	
	maxLength	24	

element **scanEventQueryTypeType/IMtb**

diagram			
namespace	http://idealliance.org/Specs/mailxml23.1/mailxml_iv		
type	<b>mailxml_base:IMtbType</b>		
facets	Kind	Value	Annotation
	minLength	24	
	maxLength	24	

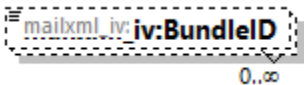
element **scanEventQueryTypeType/IMB**

diagram			
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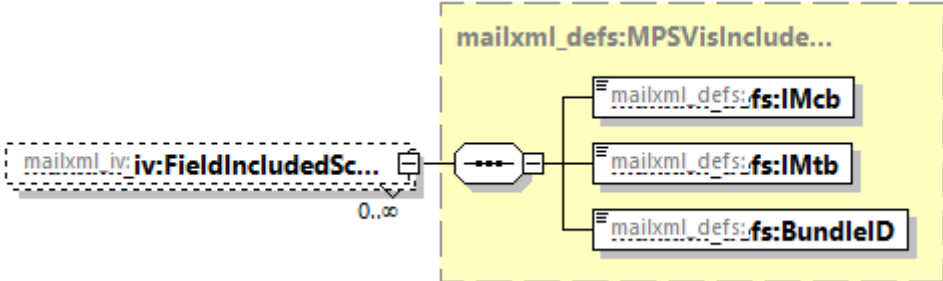


namespace	http://idealliance.org/Specs/mailxml23.1/mailxml_iv		
type	<b>mailxml_base:IMBType</b>		
facets	Kind	Value	Annotation
	minLength	20	
	maxLength	34	

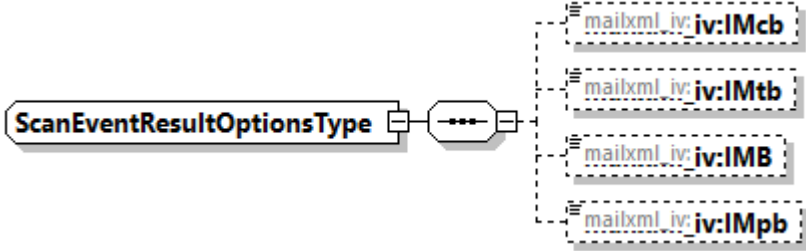
element **scanEventQueryType/BundleID**

diagram			
namespace	http://idealliance.org/Specs/mailxml23.1/mailxml_iv		
type	<b>mailxml_base:s06</b>		
facets	Kind	Value	Annotation
	minLength	1	
	maxLength	6	
	whiteSpace	preserve	

element **scanEventQueryType/FieldIncludedScanRecFlag**


diagram			
namespace	http://idealliance.org/Specs/mailxml23.1/mailxml_iv		
type	<b>mailxml_defs:MPSVisIncludedInScanRecFlagType</b>		
children	<b>mailxml_defs:IMcb mailxml_defs:IMtb mailxml_defs:BundleID</b>		

complexType **ScanEventResultOptionsType**

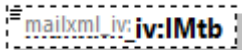
diagram			
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namespace	http://idealliance.org/Specs/mailxml23.1/mailxml_iv
children	<a href="#">mailxml iv:IMcb</a> <a href="#">mailxml iv:IMtb</a> <a href="#">mailxml iv:IMB</a> <a href="#">mailxml iv:IMpb</a>
used by	element <a href="#">scanEventQueryType/ResultOptions</a>

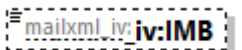
element **ScanEventResultOptionsType/IMcb**

diagram										
namespace	http://idealliance.org/Specs/mailxml23.1/mailxml_iv									
type	<b>mailxml_base:yesNo</b>									
facets	<table><tr><td>Kind</td><td>Value</td><td>Annotation</td></tr><tr><td>enumeration</td><td>Yes</td><td></td></tr><tr><td>enumeration</td><td>No</td><td></td></tr></table>	Kind	Value	Annotation	enumeration	Yes		enumeration	No	
Kind	Value	Annotation								
enumeration	Yes									
enumeration	No									

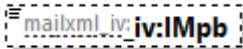
element **ScanEventResultOptionsType/IMtb**

diagram										
namespace	http://idealliance.org/Specs/mailxml23.1/mailxml_iv									
type	<b>mailxml_base:yesNo</b>									
facets	<table><tr><td>Kind</td><td>Value</td><td>Annotation</td></tr><tr><td>enumeration</td><td>Yes</td><td></td></tr><tr><td>enumeration</td><td>No</td><td></td></tr></table>	Kind	Value	Annotation	enumeration	Yes		enumeration	No	
Kind	Value	Annotation								
enumeration	Yes									
enumeration	No									

element **ScanEventResultOptionsType/IMB**

diagram										
namespace	http://idealliance.org/Specs/mailxml23.1/mailxml_iv									
type	<b>mailxml_base:yesNo</b>									
facets	<table><tr><td>Kind</td><td>Value</td><td>Annotation</td></tr><tr><td>enumeration</td><td>Yes</td><td></td></tr><tr><td>enumeration</td><td>No</td><td></td></tr></table>	Kind	Value	Annotation	enumeration	Yes		enumeration	No	
Kind	Value	Annotation								
enumeration	Yes									
enumeration	No									

element **ScanEventResultOptionsType/IMpb**

diagram	
namespace	http://idealliance.org/Specs/mailxml23.1/mailxml_iv
type	<b>mailxml_base:yesNo</b>

facets	Kind	Value	Annotation
	enumeration	Yes	
	enumeration	No	

#### simpleType **eDocTypeType**

namespace	http://idealliance.org/Specs/mailxml23.1/mailxml_iv		
type	restriction of <b>xs:string</b>		
used by	elements	<b>MPSVisDelivery/eDocType MPSVisNotification/eDocType MPSVisQueryResponse/eDocType</b>	
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 **handlingEventTypeType**

namespace	http://idealliance.org/Specs/mailxml23.1/mailxml_iv		
type	restriction of <b>xs:string</b>		
used by	elements	<b>ContainerVisibilityQueryRequest/HandlingEventType ContainerVisibilityEntry/HandlingEventType</b>	
facets	Kind	Value	Annotation
	enumeration	Actual	
	enumeration	Logical	
	enumeration	AssumedActual	
	enumeration	AssumedLogical	

#### simpleType **mailObjectTypeType**

namespace	http://idealliance.org/Specs/mailxml23.1/mailxml_iv		
type	restriction of <b>xs:string</b>		
used by	elements	<b>ContainerVisibilityQueryRequest/MailObjectType ContainerVisibilityEntry/MailObjectType</b>	
facets	Kind	Value	Annotation
	enumeration	Container	
	enumeration	HandlingUnit	

### simpleType **recipientRoleType**

namespace	http://idealliance.org/Specs/mailxml23.1/mailxml_iv		
type	restriction of <b>xs:string</b>		
used by	elements	<b>ContainerVisibilityQueryRequest/RecipientRole</b> <b>ContainerVisibilityEntry/RecipientRole</b>	
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://idealliance.org/Specs/mailxml23.1/mailxml_iv		
type	restriction of <b>xs:string</b>		
used by	elements	<b>ContainerVisibilityQueryRequest/ScanEventCode</b> <b>ContainerVisibilityEntry/ScanEventCode</b>	