



MailXML Version 16.0

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 and to work with FAST.

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About MailXML™

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 MailXML Version 16.0?

With this release, the Mail.XML Messaging Protocol moves to Version 15.0. This is a MAJOR release. A new schema module that supports dynamic payment templates has been added. This release supports ongoing USPS modernization and automation efforts for 2013 and 2014.

Changes supported by MailXML 16.0 include:

- An option has been added to allow the identification of Political or Election mail exclusively. In any postage statement, mailers can mail either political-mail only or election-mail only; Political and Election mail cannot be mixed on the same postage statement. This will enable USPS to enable visibility on these two kinds of mail.
- An option has been added to allow the identification of Live Animal Transportation and to add fee for Live Animal Transportation. This will enable USPS to cover costs for additional handling issues for live animal shipments and increase visibility of the shipments.
- An option has been added to allow the identification of Human Remains Transportation and increase visibility of the shipments.

- An option has been added to add a Shipping Service File Transaction ID field in Mail.XML. The SSF TID is a unique 12-digit number assigned by the customer (mailer) to link SSF manifests Electronic File Numbers (EFNs) to Mail.XML transmissions. The TID that is associated to a postage statement should match the SSF TID in the Shipping Services manifest file(s) EFNs for the corresponding mailing. The *PostalOne!* system will use the SSFTID to match against the data in the Mail.XML submitted by mailer.
- An option has been added to provide an incentive for coupon promotional mailings.
- An option has been added to provide for the addition of an extraServiceIMPackageBarcode to mailPieceBlockType at the same level IMB to enable tracking of multiple extra services on a packages.
- To mirror the effort to remove unused elements in Mail.dat, unused elements in Mail.XML will be removed to unify the specifications.
- To enhance the existing closeout message in Mail.XML, fields will be added to show container count with a corresponding error description.
- An option has been added to identify Parcel Select as its own mail class for appointment scheduling in response to the Postal Accountability and Enhancement Act of 2006, providing new shipping services which includes Parcel Select as its own mail class.

About MailXML Schema Modularization

Today Mail.XML messages are grouped into 7 message types.

- Transportation Messages
- Mailing Messages
- Data Distribution Messages
- Dynamic Payment Template Messages
- Identification Messages
- Supply Chain Messages
- 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.

MailXML Module Versioning Rules

The following versioning rules will be followed:

- The MailXML 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/mailxml15.0/mailxml"`
`targetNamespace="http://idealliance.org/Specs/mailxml15.0/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/mailxml15.0A/mailxml"` then at least one of the XSDs is at same version such as filename = 'mailxml_15.0.Axsd' <- Errata A
- If the wrapper version is labeled as
`xmlns:mailxml="http://idealliance.org/Specs/mailxml15.0B/mailxml"` then at least one of the XSDs is at same version such as filename = 'mailxml_15.0B.xsd' <- Errata B
- If the wrapper version is labeled as
`xmlns:mailxml="http://idealliance.org/Specs/mailxml15.0/mailxml"` then at least one of the XSDs is at same version such as filename = 'mailxml_15.0.xsd' <- Major Version

MailXML 16.0 XSD Modules:

The following MailXML XSD modules/namespaces are used:

- **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_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:**
- **Namespace=mailxml:**
- **mailxml_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=mailxml_defs:**

- **mailxml_base.xsd:** This module contains simple types that are shared across two or more modules that make up mailxml. These can be considered a building block for any message group. *Namespace=mailxml_base:*
- **mailxml.xsd:** This module contains the system messages of MailXML and is used to build custom profiles for MailXML. *Namespace=mailxml:*

The MailXML™ 16 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 16.0. Updates in this Specification are NOT backwardly compatible with previous versions. Other documents in the specification set include:

- *Mail.XML™ 16.0: Transportation Messaging Specification* documents all transportation messages
- *Mail.XML™ 16.0: Mailing Messaging Specification* documents all mailing messages
- *Mail.XML™ 16.0: Data Distribution Messaging Specification* documents all data distribution messages
- *Mail.XML™ 16.0: Identification Messaging Specification* documents all identification messages
- *Mail.XML™ 16.0: Supply Chain Messaging Specification* documents all supply chain messages
- *Mail.XML™ 16.0: System Messaging Specification* documents all systems and fault messages
- *Mail.XML™ 16.0: Simple Types Specification* documents all simple types used across MailXML messages
- *Mail.XML™ 16.0: Common Definitions Specification* documents all shared elements and complex types.
- *Mail.XML™ 16.0: Schemas* contains the .XSDs that make up the MailXML Messaging Specification

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1 Index

Elements

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[Fault](#)

[MessageResponseRetrievalRequest](#)

[MessageResponseRetrievalResponse](#)

[NotificationResponse](#)

[SystemVersionQueryRequest](#)

[SystemVersionQueryResponse](#)

Complex types

[messageResponseNotAvailableResponseType](#)

[messageResponseRetrievalRequestType](#)

[messageResponseRetrievalResponseType](#)

2 Elements and Simple Types

element **DeliveryResponse**

diagram	
namespace	http://idealliance.org/Specs/mailxml16.0/mailxml
used by	element messageResponseRetrievalResponseType/QueryResults

element **DeliveryResponse/UserLicenseCode**

diagram	
namespace	http://idealliance.org/Specs/mailxml16.0/mailxml

element **DeliveryResponse/MaildatJobID**

diagram	
namespace	http://idealliance.org/Specs/mailxml16.0/mailxml

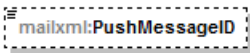
element **DeliveryResponse/CustomerGroupID**

diagram	
namespace	http://idealliance.org/Specs/mailxml16.0/mailxml


element **DeliveryResponse/MailingGroupID**

diagram	
namespace	http://idealliance.org/Specs/mailxml16.0/mailxml

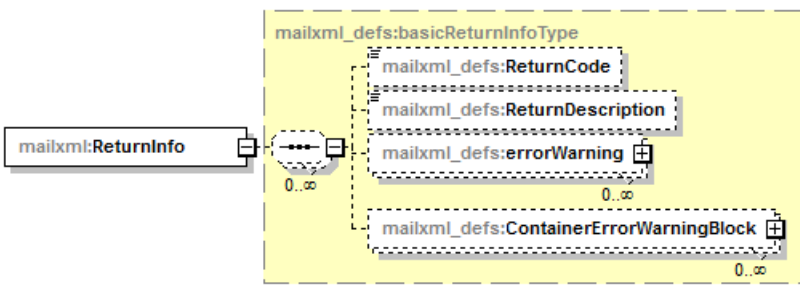
element **DeliveryResponse/PushMessageID**

diagram	
namespace	http://idealliance.org/Specs/mailxml16.0/mailxml

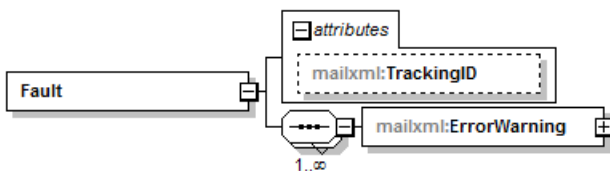
element **DeliveryResponse/DeliveryType**

diagram	
namespace	http://idealliance.org/Specs/mailxml16.0/mailxml

element **DeliveryResponse/ReturnInfo**

diagram	
namespace	http://idealliance.org/Specs/mailxml16.0/mailxml

element **Fault**

diagram											
namespace	http://idealliance.org/Specs/mailxml16.0/mailxml										
used by	element messageResponseRetrievalResponseType/QueryResults										
attributes	<table><tr><th>Name</th><th>Type</th><th>Use</th><th>Default</th><th>Fixed</th></tr><tr><td>mailxml:TrackingID</td><td>mailxml_base:s20</td><td></td><td></td><td></td></tr></table>	Name	Type	Use	Default	Fixed	mailxml:TrackingID	mailxml_base:s20			
Name	Type	Use	Default	Fixed							
mailxml:TrackingID	mailxml_base:s20										

attribute **Fault/@TrackingID**

namespace	http://idealliance.org/Specs/mailxml16.0/mailxml
-----------	--

element **Fault/ErrorWarning**

diagram	
namespace	http://idealliance.org/Specs/mailxml16.0/mailxml

element **MessageResponseRetrievalRequest**

diagram	
namespace	http://idealliance.org/Specs/mailxml16.0/mailxml

element **MessageResponseRetrievalRequest/SubmittingParty**

diagram	<pre>graph LR SP[mailxml:SubmittingParty] --- PIDT[mailxml_defs:participantIDType] subgraph PIDT subgraph attributes M1[mailxml_defs:MailerID6] M2[mailxml_defs:MailerID9] CRID[mailxml_defs:CRID] S[mailxml_defs:SchedulerID] ML[mailxml_defs:MaildatUserLicense] SA[mailxml_defs:ShippingAgentID] RA[mailxml_defs:ReceivingAgentID] end end</pre>				
namespace	http://idealliance.org/Specs/mailxml16.0/mailxml				
attributes	Name	Type	Use	Default	Fixed
	mailxml_defs:MailerID6	mailxml_base:mailerID6Type			
	mailxml_defs:MailerID9	mailxml_base:mailerID9Type			
	mailxml_defs:CRID	mailxml_base:CRIDType			
	mailxml_defs:SchedulerID	mailxml_base:s12			
	mailxml_defs:MaildatUserLicense	mailxml_base:userLicenseCodeType			
	mailxml_defs:ShippingAgentID	mailxml_base:s12			

	mailxml_defs:ReceivingAgentID	mailxml_base:s12
--	-------------------------------	------------------

element MessageResponseRetrievalRequest/SubmittingSoftware

diagram					
namespace	http://idealliance.org/Specs/mailxml16.0/mailxml				
attributes	Name	Type	Use	Default	Fixed
	mailxml_defs:SoftwareName	xs:string	required		
	mailxml_defs:Vendor	xs:string	required		
	mailxml_defs:Version	xs:string	required		
	mailxml_defs:ApprovalDate	xs:date			
	mailxml_defs:ApprovalKey	xs:string			

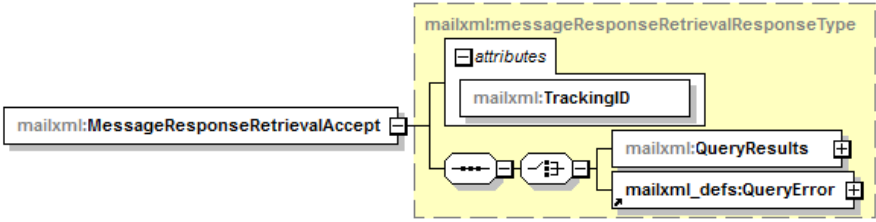
element MessageResponseRetrievalRequest/MessageResponse

diagram					
namespace	http://idealliance.org/Specs/mailxml16.0/mailxml				
attributes	Name	Type	Use	Default	Fixed
	mailxml:TrackingID	mailxml_base:s20	required		

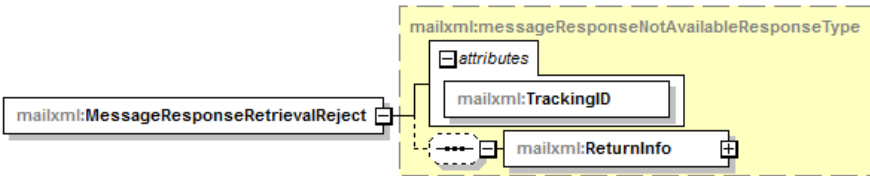
element MessageResponseRetrievalResponse

diagram					
namespace	http://idealliance.org/Specs/mailxml16.0/mailxml				

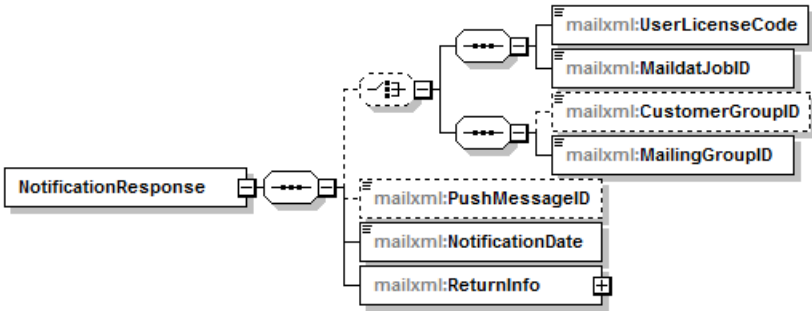
element **MessageResponseRetrievalResponse/MessageResponseRetrievalAccept**

diagram					
namespace	http://idealliance.org/Specs/mailxml16.0/mailxml				
attributes	Name mailxml:TrackingID	Type mailxml_base:s20	Use required	Default	Fixed


element **MessageResponseRetrievalResponse/MessageResponseRetrievalReject**

diagram					
namespace	http://idealliance.org/Specs/mailxml16.0/mailxml				
attributes	Name mailxml:TrackingID	Type mailxml_base:s20	Use required	Default	Fixed


element **NotificationResponse**

diagram					
namespace	http://idealliance.org/Specs/mailxml16.0/mailxml				
used by	element	messageResponseRetrievalResponseType/QueryResults			

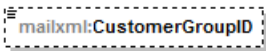
element **NotificationResponse/UserLicenseCode**

diagram					
namespace	http://idealliance.org/Specs/mailxml16.0/mailxml				


element **NotificationResponse/MaildatJobID**

diagram	
namespace	http://idealliance.org/Specs/mailxml16.0/mailxml

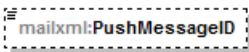
element **NotificationResponse/CustomerGroupID**

diagram	
namespace	http://idealliance.org/Specs/mailxml16.0/mailxml


element **NotificationResponse/MailingGroupID**

diagram	
namespace	http://idealliance.org/Specs/mailxml16.0/mailxml

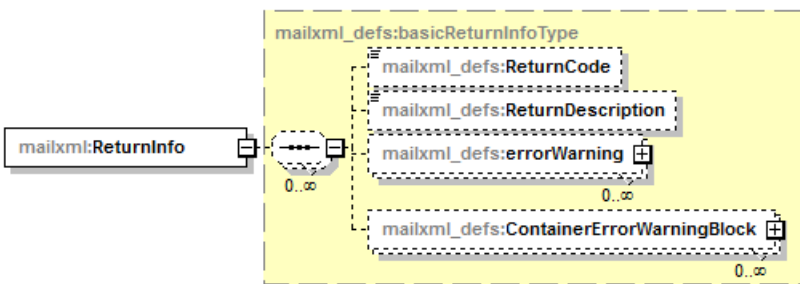
element **NotificationResponse/PushMessageID**

diagram	
namespace	http://idealliance.org/Specs/mailxml16.0/mailxml

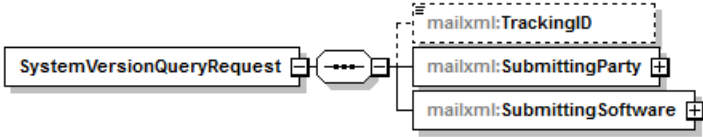
element **NotificationResponse/NotificationDate**

diagram	
namespace	http://idealliance.org/Specs/mailxml16.0/mailxml

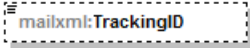
element **NotificationResponse/ReturnInfo**

diagram	
namespace	http://idealliance.org/Specs/mailxml16.0/mailxml

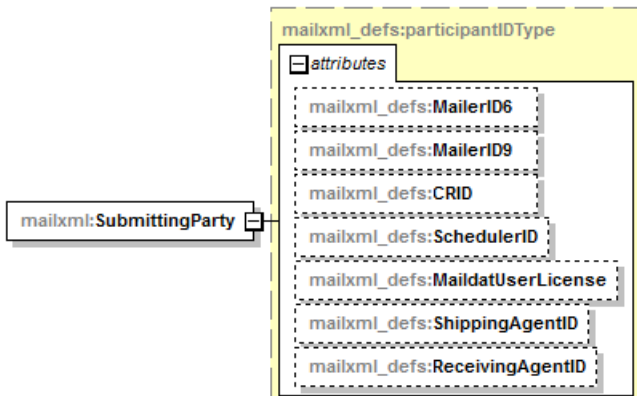
element **SystemVersionQueryRequest**

diagram	 <p>The diagram shows a box labeled 'SystemVersionQueryRequest' connected to a dashed box containing three elements: 'mailxml:TrackingID', 'mailxml:SubmittingParty', and 'mailxml:SubmittingSoftware'.</p>
namespace	http://idealliance.org/Specs/mailxml16.0/mailxml

element **SystemVersionQueryRequest/TrackingID**

diagram	 <p>The diagram shows a dashed box labeled 'mailxml:TrackingID'.</p>
namespace	http://idealliance.org/Specs/mailxml16.0/mailxml

element **SystemVersionQueryRequest/SubmittingParty**

diagram					
namespace	http://idealliance.org/Specs/mailxml16.0/mailxml				
attributes	Name	Type	Use	Default	Fixed
	mailxml_defs:MailerID6	mailxml_base:mailerID6Type			
	mailxml_defs:MailerID9	mailxml_base:mailerID9Type			
	mailxml_defs:CRID	mailxml_base:CRIDType			
	mailxml_defs:SchedulerID	mailxml_base:s12			
	mailxml_defs:MaildatUserLicense	mailxml_base:userLicenseCodeType			
	mailxml_defs:ShippingAgentID	mailxml_base:s12			
	mailxml_defs:ReceivingAgentID	mailxml_base:s12			

element **SystemVersionQueryRequest/SubmittingSoftware**

diagram					
namespace	http://idealliance.org/Specs/mailxml16.0/mailxml				
attributes	Name	Type	Use	Default	Fixed
	mailxml_defs:SoftwareName	xs:string	required		
	mailxml_defs:Vendor	xs:string	required		
	mailxml_defs:Version	xs:string	required		
	mailxml_defs:ApprovalDate	xs:date			
	mailxml_defs:ApprovalKey	xs:string			

element **SystemVersionQueryResponse**

diagram					
namespace	http://idealliance.org/Specs/mailxml16.0/mailxml				
used by	element	messageResponseRetrievalResponseType/QueryResults			


element **SystemVersionQueryResponse/QueryResults**

diagram					
namespace	http://idealliance.org/Specs/mailxml16.0/mailxml				

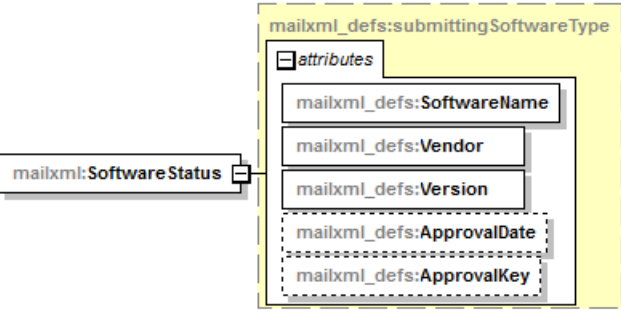
element **SystemVersionQueryResponse/QueryResults/TrackingID**

diagram					
namespace	http://idealliance.org/Specs/mailxml16.0/mailxml				

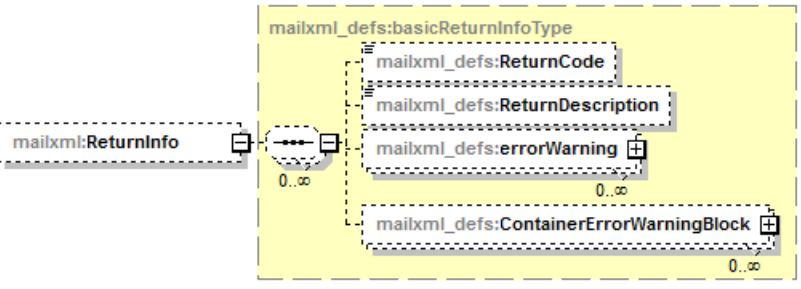
element **SystemVersionQueryResponse/QueryResults/SubmitterTrackingID**

diagram	
namespace	http://idealliance.org/Specs/mailxml16.0/mailxml

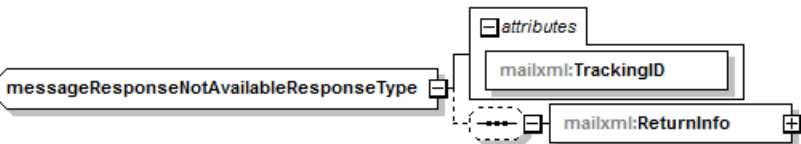
element **SystemVersionQueryResponse/QueryResults/SoftwareStatus**

diagram					
namespace	http://idealliance.org/Specs/mailxml16.0/mailxml				
attributes	Name	Type	Use	Default	Fixed
	mailxml_defs:SoftwareName	xs:string	required		
	mailxml_defs:Vendor	xs:string	required		
	mailxml_defs:Version	xs:string	required		
	mailxml_defs:ApprovalDate	xs:date			
	mailxml_defs:ApprovalKey	xs:string			

element **SystemVersionQueryResponse/QueryResults/ReturnInfo**

diagram					
namespace	http://idealliance.org/Specs/mailxml16.0/mailxml				

complexType **messageResponseNotAvailableResponseType**

diagram					
namespace	http://idealliance.org/Specs/mailxml16.0/mailxml				
used by	element	MessageResponseRetrievalResponse/MessageResponseRetrievalReject			

attributes	Name mailxml:TrackingID	Type mailxml_base:s20	Use required	Default	Fixed
------------	--	---------------------------------	-----------------	---------	-------

attribute messageResponseNotAvailableResponseType/@TrackingID

namespace	http://idealliance.org/Specs/mailxml16.0/mailxml
-----------	---

element messageResponseNotAvailableResponseType/ReturnInfo

diagram	
namespace	http://idealliance.org/Specs/mailxml16.0/mailxml

complexType messageResponseRetrievalRequestType

diagram	
namespace	http://idealliance.org/Specs/mailxml16.0/mailxml
used by	element MessageResponseRetrievalRequest/MessageResponse
attributes	Name mailxml:TrackingID Type mailxml_base:s20 Use required Default Fixed

attribute messageResponseRetrievalRequestType/@TrackingID

namespace	http://idealliance.org/Specs/mailxml16.0/mailxml
-----------	---

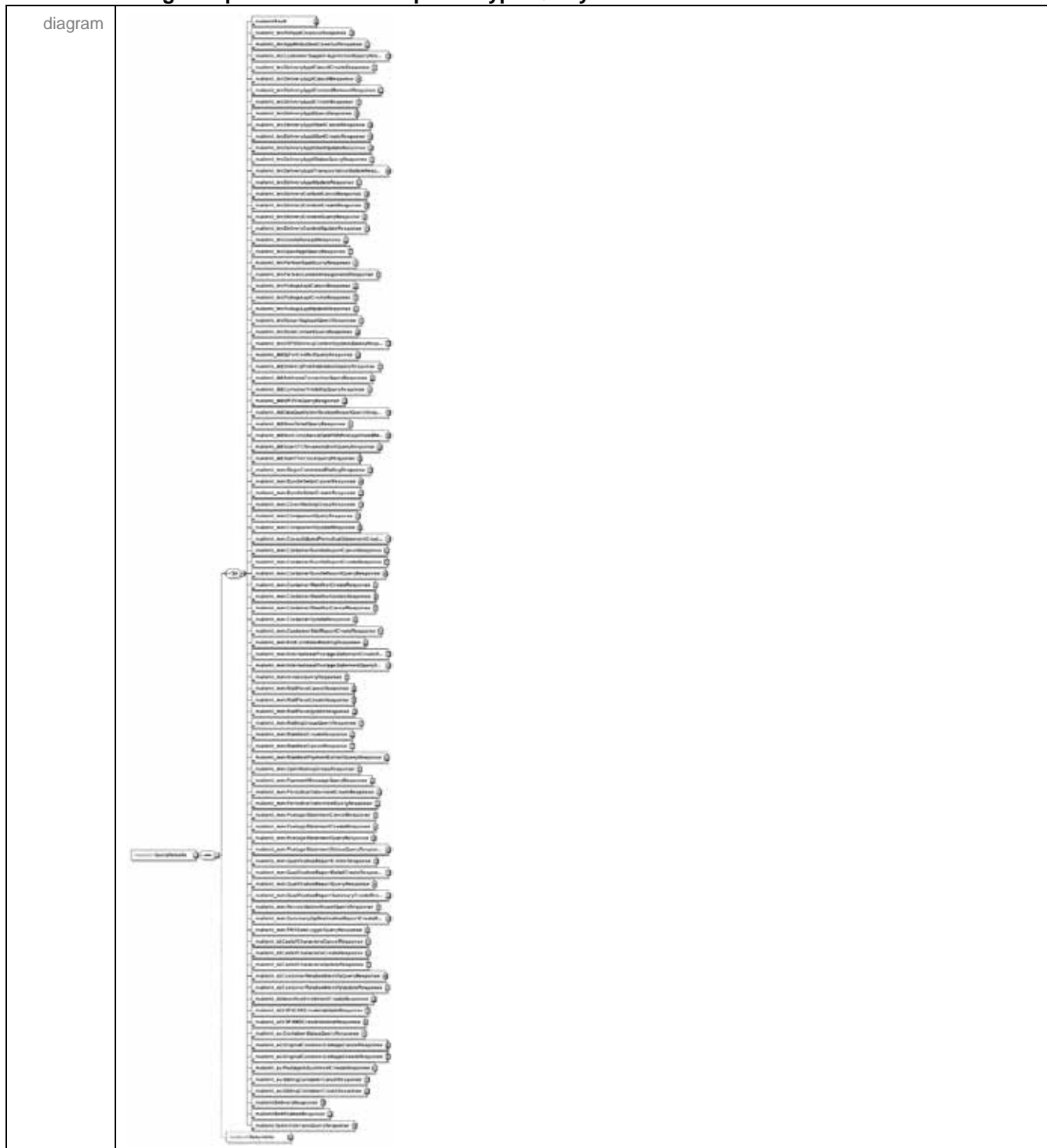
complexType messageResponseRetrievalResponseType

diagram	
namespace	http://idealliance.org/Specs/mailxml16.0/mailxml
used by	element MessageResponseRetrievalResponse/MessageResponseRetrievalAccept
attributes	Name mailxml:TrackingID Type mailxml_base:s20 Use required Default Fixed

attribute **messageResponseRetrievalResponseType/@TrackingID**

namespace	http://idealliance.org/Specs/mailxml16.0/mailxml
-----------	--

element **messageResponseRetrievalResponseType/QueryResults**



namespace	http://idealliance.org/Specs/mailxml16.0/mailxml
-----------	--

element **messageResponseRetrievalResponseType/QueryResults/ReturnInfo**

diagram	
namespace	http://idealliance.org/Specs/mailxml16.0/mailxml

XML Schema documentation generated by [XMLSpy](http://www.altova.com/xmlspy) Schema Editor <http://www.altova.com/xmlspy>