



## ***MailXML Version 21.0***

### **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 21.0?

With this release, the Mail.XML Messaging Protocol moves to Version 21.0. In addition to minor cleanup, this release supports ongoing USPS modernization and automation efforts for 2018.

Changes supported by MailXML 21.0 include:

- Update the ContainerVisibilityEntry to contain fields to allow users to receive new Scan State events for Container / Handling Units..
- As part of the January 2018 Price Change release, PostalOne! will use the Container Type defined in the Qualification Report for Periodicals Sacks and Trays to map to the correct line on the postage statement. MailXML V21.0 allows line mapping for sack/tray directly as part of the PeriodicalStatementCreateRequest.
- Mail.XML V21.0 will add support for ASF (Auxiliary Service Facility) in ContainerStatusQueryResponse.
- MailXML V21.0 updates the ContainerVisibilityEntry to allow users to determine the party that was received the visibility data.
- MailXML V21.0 enables USPS to requiring permit information for Mailing Agents when only CRID or MID information is used to identify the correct Mailing Agent.

**Note:** In order to modify a campaign, a user must first delete the campaign and then create a new campaign with the updated parameters. There is no message to update or modify a campaign at this time.

## About MailXML 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.

## MailXML Module Versioning Rules

The following versioning rules will be followed:

- The MailXML wrapper schema<sup>\*\*</sup>.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/mailxml21.0/mailxml"**  
**targetNamespace="http://Idealliance.org/Specs/mailxml21.0/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.A.xsd' <- 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 21.0 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\_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 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™ 21 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™ 21.0: Transportation Messaging Specification* documents all transportation messages
- *Mail.XML™ 21.0: Mailing Messaging Specification* documents all mailing messages
- *Mail.XML™ 21.0: Informed Visibility Specification* documents all informed visibility messages

- *Mail.XML™ 21.0: Data Distribution Messaging Specification* documents all data distribution messages
- *Mail.XML™ 21.0: Identification Messaging Specification* documents all identification messages
- *Mail.XML™ 21.0: Supply Chain Messaging Specification* documents all supply chain messages
- *Mail.XML™ 21.0: System Messaging Specification* documents all systems and fault messages
- *Mail.XML™ 21.0: Simple Types Specification* documents all simple types used across MailXML messages
- *Mail.XML™ 21.0: Common Definitions Specification* documents all shared elements and complex types.
- *Mail.XML™ 21.0: Schemas* contains the .XSDs that make up the MailXML Messaging Specification

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[messageResponseRetrievalRequestType](#)

[messageResponseRetrievalResponseType](#)





## 2 Elements and Complex Types

### element **DeliveryResponse**

diagram	
children	<a href="#">mailxml:UserLicenseCode</a> <a href="#">mailxml:MaildatJobID</a> <a href="#">mailxml:CustomerGroupID</a> <a href="#">mailxml:MailingGroupID</a> <a href="#">mailxml:PushMessageID</a> <a href="#">mailxml:DeliveryType</a> <a href="#">mailxml:ReturnInfo</a>
used by	element <a href="#">messageResponseRetrievalResponseType/QueryResults</a>
annotation	documentation Response sent to USPS by a customer when any delivery is pushed. For example when a delivery point validation delivery is pushed by USPS this response is returned by the receiver.

### element **DeliveryResponse/UserLicenseCode**

diagram	
---------	--

### element **DeliveryResponse/MaildatJobID**

diagram	
---------	--

### element **DeliveryResponse/CustomerGroupID**

diagram	
---------	--

### element **DeliveryResponse/MailingGroupID**

diagram	
---------	--

### element **DeliveryResponse/PushMessageID**

diagram	
---------	--

### element **DeliveryResponse/DeliveryType**

diagram	
---------	--

element **DeliveryResponse/ReturnInfo**

diagram	
children	mailxml_defs:ReturnCode mailxml_defs:ReturnDescription mailxml_defs:errorWarning mailxml_defs:ContainerErrorWarningBlock

element **Fault**

diagram													
children	<a href="#">mailxml:ErrorWarning</a>												
used by	element <a href="#">messageResponseRetrievalResponseType/QueryResults</a>												
attributes	<table><tr><th>Name</th><th>Type</th><th>Use</th><th>Default</th><th>Fixed</th><th>Annotation</th></tr><tr><td><a href="#">mailxml:TrackingID</a></td><td>mailxml_base:s20</td><td></td><td></td><td></td><td></td></tr></table>	Name	Type	Use	Default	Fixed	Annotation	<a href="#">mailxml:TrackingID</a>	mailxml_base:s20				
Name	Type	Use	Default	Fixed	Annotation								
<a href="#">mailxml:TrackingID</a>	mailxml_base:s20												
annotation	documentation A fault message.												

attribute **Fault/@TrackingID**element **Fault/ErrorWarning**

diagram	
children	mailxml_defs:Code mailxml_defs:Severity mailxml_defs:KeyIDvalues mailxml_defs:SubmissionDate mailxml_defs:ErrorDescription mailxml_defs:Action mailxml_defs:TrackingID mailxml_defs:SubmitterTrackingID mailxml_defs:MailxmlDetail

element **MessageResponseRetrievalRequest**

diagram	
children	<a href="#">mailxml:SubmittingParty</a> <a href="#">mailxml:SubmittingSoftware</a> <a href="#">mailxml:MessageResponse</a>
annotation	documentation Request to send responses once more when the response was interrupted by a system fault.

element **MessageResponseRetrievalRequest/SubmittingParty**

diagram						
attributes	Name	Type	Use	Default	Fixed	Annotation
	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						
attributes	Name	Type	Use	Default	Fixed	Annotation
	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						
attributes	Name	Type	Use	Default	Fixed	Annotation
	<a href="#">mailxml:TrackingID</a>	mailxml_base:s20	required			

element **MessageResponseRetrievalResponse**

diagram						
children	<a href="#">mailxml:MessageResponseRetrievalAccept</a> <a href="#">mailxml:MessageResponseRetrievalReject</a>					
annotation	documentation Response to the Message Response Retrieval Request that resends interrupted responses.					

element **MessageResponseRetrievalResponse/MessageResponseRetrievalAccept**

diagram						
children	<a href="#">mailxml:QueryResults</a> mailxml_defs:QueryError					
attributes	Name	Type	Use	Default	Fixed	Annotation
	<a href="#">mailxml:TrackingID</a>	mailxml_base:s20	required			

element **MessageResponseRetrievalResponse/MessageResponseRetrievalReject**

diagram						
children	<a href="#">mailxml:ReturnInfo</a>					
attributes	Name	Type	Use	Default	Fixed	Annotation
	<a href="#">mailxml:TrackingID</a>	mailxml_base:s20	required			

element **NotificationResponse**

diagram	
children	<a href="#">mailxml:UserLicenseCode</a> <a href="#">mailxml:MaildatJobID</a> <a href="#">mailxml:CustomerGroupID</a> <a href="#">mailxml:MailingGroupID</a> <a href="#">mailxml:PushMessageID</a> <a href="#">mailxml:NotificationDate</a> <a href="#">mailxml:ReturnInfo</a>
used by	element <a href="#">messageResponseRetrievalResponseType/QueryResults</a>
annotation	documentation Standard response to a USPS notification to indicate the notification has been received.

element **NotificationResponse/UserLicenseCode**

diagram	
---------	--

element **NotificationResponse/MaildatJobID**

diagram	
---------	--

element **NotificationResponse/CustomerGroupID**

diagram	
---------	--

element **NotificationResponse/MailingGroupID**

diagram	
---------	--

element **NotificationResponse/PushMessageID**

diagram	
---------	--

element **NotificationResponse/NotificationDate**

diagram	
---------	--

element **NotificationResponse/ReturnInfo**

diagram	
children	mailxml_defs:ReturnCode mailxml_defs:ReturnDescription mailxml_defs:errorWarning mailxml_defs:ContainerErrorWarningBlock

element **SystemVersionQueryRequest**

diagram	
children	<a href="#">mailxml:TrackingID</a> <a href="#">mailxml:SubmittingParty</a> <a href="#">mailxml:SubmittingSoftware</a>
annotation	documentation Query request for the receiving system version information.

element **SystemVersionQueryRequest/TrackingID**

diagram	
---------	--

element **SystemVersionQueryRequest/SubmittingParty**

diagram	<pre>graph TD     subgraph mailxml_defs_participantIDType [mailxml_defs:participantIDType]         direction TB         attributes[attributes]         MailerID6[mailxml_defs:MailerID6]         MailerID9[mailxml_defs:MailerID9]         CRID[mailxml_defs:CRID]         SchedulerID[mailxml_defs:SchedulerID]         MaildatUserLicense[mailxml_defs:MaildatUserLicense]         ShippingAgentID[mailxml_defs:ShippingAgentID]         ReceivingAgentID[mailxml_defs:ReceivingAgentID]     end     mailxml_SubmittingParty[mailxml:SubmittingParty] --- attributes     mailxml_SubmittingParty --- MailerID6     mailxml_SubmittingParty --- MailerID9     mailxml_SubmittingParty --- CRID     mailxml_SubmittingParty --- SchedulerID     mailxml_SubmittingParty --- MaildatUserLicense     mailxml_SubmittingParty --- ShippingAgentID     mailxml_SubmittingParty --- ReceivingAgentID</pre>					
attributes	Name	Type	Use	Default	Fixed	Annotation
	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						
attributes	Name	Type	Use	Default	Fixed	Annotation
	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						
children	<a href="#">mailxml:QueryResults</a> mailxml_defs:QueryError					
used by	element <a href="#">messageResponseRetrievalResponseType/QueryResults</a>					
annotation	documentation Response to a query for the receiving system version information.					

**element SystemVersionQueryResponse/QueryResults**

diagram						
children	<a href="#">mailxml:TrackingID</a> <a href="#">mailxml:SubmitterTrackingID</a> <a href="#">mailxml:SoftwareStatus</a> <a href="#">mailxml:ReturnInfo</a>					

**element SystemVersionQueryResponse/QueryResults/TrackingID**

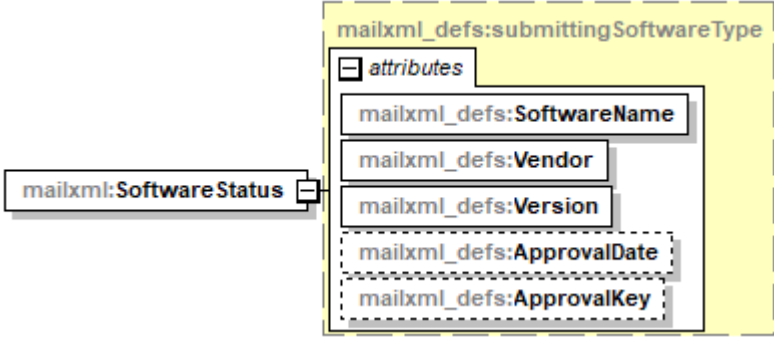
diagram						
---------	--	--	--	--	--	--



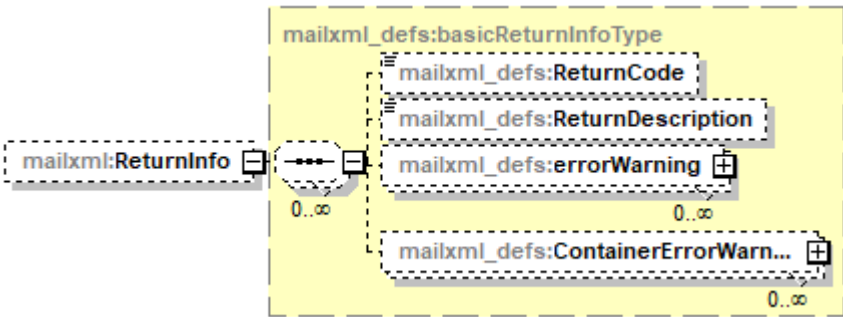
element **SystemVersionQueryResponse/QueryResults/SubmitterTrackingID**

diagram	
---------	---

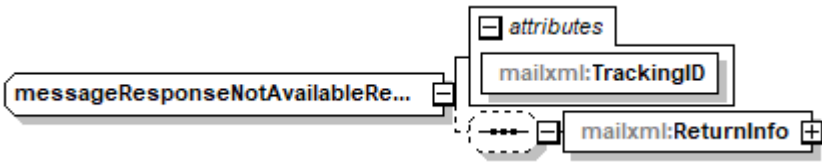
element **SystemVersionQueryResponse/QueryResults/SoftwareStatus**

diagram						
attributes	Name	Type	Use	Default	Fixed	Annotation
	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						
children	mailxml_defs:ReturnCode mailxml_defs:ReturnDescription mailxml_defs:errorWarning mailxml_defs:ContainerErrorWarningBlock					

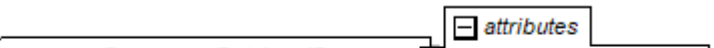
complexType **messageResponseNotAvailableResponseType**

diagram						
children	<a href="#">mailxml:ReturnInfo</a>					
used by	element <a href="#">MessageResponseRetrievalResponse/MessageResponseRetrievalReject</a>					
attributes	Name	Type	Use	Default	Fixed	Annotation
	<a href="#">mailxml:TrackingID</a>	mailxml_base:s20	required			

attribute **messageResponseNotAvailableResponseType/@TrackingID**element **messageResponseNotAvailableResponseType/ReturnInfo**

diagram	
children	mailxml_defs:ConsigneeFacility mailxml_defs:ErrorWarning mailxml_defs:ContainerErrorWarningBlock

complexType **messageResponseRetrievalRequestType**

diagram						
used by	element	<a href="#">MessageResponseRetrievalRequest/MessageResponse</a>				
attributes	Name	Type	Use	Default	Fixed	Annotation
	<a href="#">mailxml:TrackingID</a>	mailxml_base:s20	required			

attribute **messageResponseRetrievalRequestType/@TrackingID**complexType **messageResponseRetrievalResponseType**

diagram													
children	<a href="#">mailxml:QueryResults</a> mailxml_defs:QueryError												
used by	element <a href="#">MessageResponseRetrievalResponse/MessageResponseRetrievalAccept</a>												
attributes	<table><tr><th>Name</th><th>Type</th><th>Use</th><th>Default</th><th>Fixed</th><th>Annotation</th></tr><tr><td><a href="#">mailxml:TrackingID</a></td><td>mailxml_base:s20</td><td>required</td><td></td><td></td><td></td></tr></table>	Name	Type	Use	Default	Fixed	Annotation	<a href="#">mailxml:TrackingID</a>	mailxml_base:s20	required			
Name	Type	Use	Default	Fixed	Annotation								
<a href="#">mailxml:TrackingID</a>	mailxml_base:s20	required											

attribute **messageResponseRetrievalResponseType/@TrackingID**  
element **messageResponseRetrievalResponseType/QueryResults**

diagram

[illegible]

children	<a href="#">mailxml:Fault</a> mailxml_tm:AllApptCloseoutResponse mailxml_tm:ApptInductionCloseoutResponse mailxml_tm:CustomerSupplierAgreementQueryResponse mailxml_tm:DeliveryApptCancelCreateResponse mailxml_tm:DeliveryApptCancelResponse mailxml_tm:DeliveryApptContentRemoveResponse mailxml_tm:DeliveryApptCreateResponse mailxml_tm:DeliveryApptQueryResponse mailxml_tm:DeliveryApptShellCancelResponse mailxml_tm:DeliveryApptShellCreateResponse mailxml_tm:DeliveryApptShellUpdateResponse mailxml_tm:DeliveryApptStatusQueryResponse mailxml_tm:DeliveryApptTransportationUpdateResponse mailxml_tm:DeliveryApptUpdateResponse mailxml_tm:DeliveryContentCancelResponse mailxml_tm:DeliveryContentCreateResponse mailxml_tm:DeliveryContentQueryResponse mailxml_tm:DeliveryContentUpdateResponse mailxml_tm:GoodsReceiptResponse mailxml_tm:OpenApptQueryResponse mailxml_tm:PartnerApptQueryResponse mailxml_tm:PartnerContentAssignmentResponse mailxml_tm:PickupApptCancelResponse mailxml_tm:PickupApptCreateResponse mailxml_tm:PickupApptUpdateResponse mailxml_tm:RecurringApptQueryResponse mailxml_tm:StaleContentQueryResponse mailxml_tm:USPSDeliveryContentUpdatedQueryResponse mailxml_dd:ByForConflictQueryResponse mailxml_dd:DeliveryPointValidationQueryResponse mailxml_dd:AddressCorrectionQueryResponse mailxml_dd:DataQualityVerificationReportQueryResponse mailxml_dd:NixieDetailQueryResponse mailxml_dd:NonComplianceDataWithPostageOwedReportQueryResponse mailxml_dd:ScanSTCReconciliationQueryResponse mailxml_iv:ContainerVisibilityQueryResponse mailxml_iv:MPSVisQueryResponse mailxml_iv:StartTheClockQueryResponse mailxml_mm:BeginCombinedMailingResponse mailxml_mm:BundleDetailCancelResponse mailxml_mm:BundleDetailCreateResponse mailxml_mm:CloseMailingGroupResponse mailxml_mm:ComponentQueryResponse mailxml_mm:ComponentUpdateResponse mailxml_mm:ConsolidatedPeriodicalStatementCreateResponse mailxml_mm:ContainerBundleReportCancelResponse mailxml_mm:ContainerBundleReportCreateResponse mailxml_mm:ContainerBundleReportQueryResponse mailxml_mm:ContainerManifestCreateResponse mailxml_mm:ContainerManifestUpdateResponse mailxml_mm:ContainerManifestCancelResponse mailxml_mm:ContainerUpdateResponse mailxml_mm:CustomerMailReportCreateResponse mailxml_mm:EndCombinedMailingResponse mailxml_mm:InternationalPostageStatementCreateResponse mailxml_mm:InternationalPostageStatementQueryResponse mailxml_mm:InvoiceQueryResponse mailxml_mm:MailPieceCancelResponse mailxml_mm:MailPieceCreateResponse mailxml_mm:MailPieceUpdateResponse mailxml_mm:MailingGroupQueryResponse mailxml_mm:ManifestCreateResponse mailxml_mm:ManifestCancelResponse mailxml_mm:ManifestPaymentExtractQueryResponse mailxml_mm:OpenMailingGroupResponse mailxml_mm:PaymentMessageQueryResponse mailxml_mm:PeriodicalStatementCreateResponse mailxml_mm:PeriodicalStatementQueryResponse mailxml_mm:PostageStatementCancelResponse mailxml_mm:PostageStatementCreateResponse mailxml_mm:PostageStatementQueryResponse mailxml_mm:PostageStatementStatusQueryResponse mailxml_mm:QualificationReportCreateResponse mailxml_mm:QualificationReportDetailCreateResponse mailxml_mm:QualificationReportQueryResponse mailxml_mm:QualificationReportSummaryCreateResponse mailxml_mm:ReconciliationReportQueryResponse mailxml_mm:SummaryZipDestinationReportCreateResponse mailxml_mm:TMSDataLoggerQueryResponse mailxml_id:CastofCharactersCancelResponse mailxml_id:CastofCharactersCreateResponse mailxml_id:CastofCharactersUpdateResponse mailxml_id:CustomerRelationIdentifyQueryResponse mailxml_id:CustomerRelationIdentifyUpdateResponse mailxml_id:IncentiveEnrollmentCreateResponse mailxml_id:USPSRIDCreateValidateResponse mailxml_id:USPSMIDCreateValidateResponse mailxml_sc:ContainerStatusQueryResponse mailxml_sc:OriginalContainerLinkageCancelResponse mailxml_sc:OriginalContainerLinkageCreateResponse mailxml_sc:PostageAdjustmentCreateResponse mailxml_sc:SiblingContainerCancelResponse mailxml_sc:SiblingContainerCreateResponse <a href="#">mailxml:DeliveryResponse</a> <a href="#">mailxml:NotificationResponse</a> <a href="#">mailxml:SystemVersionQueryResponse</a> <a href="#">mailxml:ReturnInfo</a>
----------	---

element **messageResponseRetrievalResponseType/QueryResults/ReturnInfo**

diagram	
children	mailxml_defs:ReturnCode mailxml_defs:ReturnDescription mailxml_defs:errorWarning

	<b>mailxml_defs:ContainerErrorWarningBlock</b>
--	--

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