

MailXML Message Types

Mail.XML messages may be grouped into 5 message types.

- Transportation Messages
- Mailing Messages
- Data Distribution Messages
- Identification Messages
- Supply Chain Messages

Transportation Messages

AllApptCloseoutResponse
AllDeliveryApptCloseoutRequest
AllPickupApptCloseoutRequest
ApptInductionCloseoutRequest
ApptInductionCloseoutResponse
ConsigneeGoodsReceipt
ConsigneeGoodsReceiptDelivery
ConsigneeGoodsReceiptNotification
ContainerStatusQueryRequest
ContainerStatusQueryResponse
ContainerUpdateRequest
ContainerUpdateResponse
CustomerSupplierAgreementQueryRequest
CustomerSupplierAgreementQueryResponse
DeliveryApptCancelCreateRequest
DeliveryApptCancelCreateResponse
DeliveryApptCancelRequest
DeliveryApptCancelResponse
DeliveryApptContentRemoveRequest
DeliveryApptContentRemoveResponse
DeliveryApptCreateRequest
DeliveryApptCreateResponse
DeliveryApptMultiStopUpdateRequest
DeliveryApptQueryRequest
DeliveryApptQueryResponse
DeliveryApptShellCancelRequest
DeliveryApptShellCancelResponse
DeliveryApptShellCreateRequest
DeliveryApptShellCreateResponse
DeliveryApptShellUpdateRequest
DeliveryApptShellUpdateResponse
DeliveryApptStatusQueryRequest

DeliveryApptStatusQueryResponse
DeliveryApptTransportationUpdateRequest
DeliveryApptTransportationUpdateResponse
DeliveryApptUpdate
DeliveryApptUpdateRequest
DeliveryApptUpdateResponse
DeliveryContentCancelRequest
DeliveryContentCancelResponse
DeliveryContentCreateRequest
DeliveryContentCreateResponse
DeliveryContentQueryRequest
DeliveryContentQueryResponse
DeliveryContentUpdateRequest
DeliveryContentUpdateResponse
DeliveryReApptRequest
GoodsReceiptResponse
OpenApptQueryRequest
OpenApptQueryResponse
PartnerApptQueryRequest
PartnerApptQueryResponse
PickupApptCancelRequest
PickupApptCancelResponse
PickupApptCreateRequest
PickupApptCreateResponse
PickupApptUpdateRequest
PickupApptUpdateResponse
RecurringApptQueryRequest
RecurringApptQueryResponse
UnscheduledConsigneeGoodsReceipt
UnscheduledConsigneeGoodsReceiptDelivery
UnscheduledConsigneeGoodsReceiptNotification

Mailing Messages

BeginCombinedMailingRequest	MailPieceUpdateReques
BeginCombinedMailingResponse	MailPieceUpdateResponse
BundleDetailCancelRequest	OpenMailingGroupRequest
BundleDetailCancelResponse	OpenMailingGroupResponse
BundleDetailCreateRequest	PaymentMessageQueryRequest
BundleDetailCreateResponse	PaymentMessageQueryResponse
CloseMailingGroupRequest	PeriodicalStatementCreateRequest
CloseMailingGroupResponse	PeriodicalStatementCreateResponse
ConsolidatedPeriodicalStatementCreateRequest	PeriodicalStatementQueryRequest
ConsolidatedPeriodicalStatementCreateResponse	PeriodicalStatementQueryResponse
ContainerBundleReportCancelRequest	PostageStatementCancelRequest
ContainerBundleReportCancelResponse	PostageStatementCancelResponse
ContainerBundleReportCreateRequest	PostageStatementCreateRequest
ContainerBundleReportCreateResponse	PostageStatementCreateResponse
ContainerBundleReportQueryRequest	PostageStatementQueryRequest
ContainerBundleReportQueryResponse	PostageStatementQueryResponse
CustomerMailReportCreateRequest	PostageStatementStatusQueryRequest
CustomerMailReportCreateResponse	PostageStatementStatusQueryResponse
EndCombinedMailingRequest	QualificationReportCreateRequest
EndCombinedMailingResponse	QualificationReportCreateResponse
MailingGroupQueryRequest	QualificationReportQueryRequest
MailingGroupQueryResponse	QualificationReportQueryResponse
MailPieceCancelRequest	ReconciliationReportQueryRequest
MailPieceCancelResponse	ReconciliationReportQueryResponse
MailPieceCreateRequest	SummaryZipDestinationReportCreateRequest
MailPieceCreateResponse	SummaryZipDestinationReportCreateResponse

Data Distribution Messages

ByForConflictDelivery	FullServiceAddressCorrectionQueryResponse
ByForConflictNotification	FullServiceContainerVisibilityDelivery
ByForConflictQueryRequest	FullServiceContainerVisibilityNotification
ByForConflictQueryResponse	FullServiceContainerVisibilityQueryRequest
DeliveryPointValidationDelivery	FullServiceContainerVisibilityQueryResponse
DeliveryPointValidationNotification	FullServiceDataQualityVerificationReportDelivery
DeliveryPointValidationQueryRequest	FullServiceDataQualityVerificationReport Notification
DeliveryPointValidationQueryResponse	FullServiceDataQualityVerificationReport QueryRequest
FullServiceAddressCorrectionDelivery	FullServiceDataQualityVerificationReport QueryResponse
FullServiceAddressCorrectionNotification	
FullServiceAddressCorrectionQueryRequest	

FullServiceNixieDetailDelivery	FullServiceStartTheClockNotification
FullServiceNixieDetailNotification	FullServiceStartTheClockQueryRequest
FullServiceNixieDetailQueryRequest	FullServiceStartTheClockQueryResponse
FullServiceNixieDetailQueryResponse	
FullServiceStartTheClockDelivery	

Identification Messages

CastofCharactersCancelRequest	USPSCRIDCreateRequest
CastofCharactersCancelResponse	USPSCRIDCreateResponse
CastofCharactersCreateRequest	USPSCRIDQueryRequest
CastofCharactersCreateResponse	USPSCRIDQueryResponse
CastofCharactersUpdateRequest	USPSMIDCreateRequest
CastofCharactersUpdateResponse	USPSMIDCreateResponse
CustomerRelationIdentifyQueryRequest	USPSMIDQueryRequest
CustomerRelationIdentifyQueryResponse	USPSMIDQueryResponse
CustomerRelationIdentifyUpdateRequest	
CustomerRelationIdentifyUpdateResponse	

Supply Chain Messages

OriginalContainerLinkageCancelRequest
OriginalContainerLinkageCancelResponse
OriginalContainerLinkageCreateRequest
OriginalContainerLinkageCreateResponse
PostageAdjustmentCreateRequest
PostageAdjustmentCreateResponse
SiblingContainerCancelRequest
SiblingContainerCancelResponse
SiblingContainerCreateRequest
SiblingContainerCreateResponse

System Messages

Fault
LargeTransactionDividerResult
MessageResponseRetrievalRequest
MessageResponseRetrievalResponse
DeliveryResponse
NotificationResponse
SystemVersionQueryRequest
SystemVersionQueryResponse

Deleted Messages

USPSForecastCancelRequest
USPSForecastCancelResponse
USPSForecastCreateRequest
USPSForecastCreateResponse
USPSForecastUpdateRequest
USPSForecastUpdateResponse

MailXML XSD Modules and Namespaces

MailXML modules are designed to stand alone, enabling those interested in one or more message sets to develop and validate just those message sets without the requirement to address the entire MailXML specification. Each module will validate by itself or in combination with all other message sets when the entire MailXML Specification is considered. In addition each module will be versioned separately. Version numbers are contained within the namespace designation. Modules will be documented individually as well.

The following MailXML XSD modules/namespaces have been developed:

- **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 and the attributes, elements and complex types that are *unique* to these messages. **Namespace=mailxml mm:**
- **mailxml_ddd.xsd**: This module contains all the data distribution messages (eDoc) 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_system.xsd**: This module contains all the system messages and the attributes, elements and complex types that are *unique* to these messages. Note that in order for the <MessageResponseRetrievalResponse to work, all the other message modules are included by the system.xsd
Namespace=mailxml:
- **mailxml_defs.xsd**: This module contains all the common definitions of attributes, elements and complex types that are used across one or more message types. **Namespace=mailxml defs:**
- **mailxml_base.xsd**: This module contains all the simple types that are used anywhere in 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:**

Building Custom Profiles of MailXML

Custom profiles of MailXML are built using the mailxml.xsd module. There are three steps to build a custom profile:

Step 1: Specify Module Namespaces

Each module of MailXML can now be versioned independently. So, for example, the Mailing and Data Distribution messages may have updates and a new version, while the Base and Transportation Messages are held at their current version. The versioning is controlled by the schema declaration at the top of mailxml.xsd:

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema"
  xmlns:mailxml_defs="http://idealliance.org/maildat/Specs/md091/
mailxml90/mailxml_defs"
  xmlns:mailxml_base="http://idealliance.org/maildat/Specs/md091/
mailxml90/base"
  xmlns:mailxml_tm="http://idealliance.org/maildat/Specs/md091/
mailxml90A/mailxml_tm"
  xmlns:mailxml_dd="http://idealliance.org/maildat/Specs/md091/
mailxml90/mailxml_dd"
  xmlns:mailxml_sc="http://idealliance.org/maildat/Specs/md091/
mailxml90/mailxml_sc"
  xmlns:mailxml_mm="http://idealliance.org/maildat/Specs/md091/
mailxml90/mailxml_mm"
  xmlns:mailxml_id="http://idealliance.org/maildat/Specs/md091/
mailxml90A/mailxml_id"
  xmlns:mailxml="http://idealliance.org/maildat/Specs/md091/
mailxml90/mailxml"
  targetNamespace="http://idealliance.org/maildat/Specs/md091/
mailxml90A/mailxml"
  elementFormDefault="qualified" attributeFormDefault="qualified"
  version="mailxml90B011010">
```

In this figure we are using modules from the MailXML 9.0A release for Transportation Messaging and Identification Messaging. Modules for MailXML 9.0 are employed for the remainder.

Note: MailXML 9.0 will be the first modularized version of MailXML. All modules will be baselined as MailXML 9.0. As modules are updated, the versioning of individual modules will increment.

Step 2: Import Modules

The second step in developing a custom profile is to import the modules that will make up your implementation. These import statements are near the top of the mailxml.xsd. Simply use XML comments to ignore those modules that you do not want to use.

```
<!-- Transportation Messaging Module -->
<xs:import namespace="http://idealliance.org/maildat/Specs/md091/
mailxml90/mailxml_tm" schemaLocation="mailxml_tm_121209.xsd"/>

<!-- Data Distribution Module -->
<!--<xs:import namespace="http://idealliance.org/maildat/Specs/md091/
mailxml90/mailxml_dd" schemaLocation="mailxml_dd_121209.xsd"/>-->

<!-- Supply Chain Messaging Module -->
<xs:import namespace="http://idealliance.org/maildat/Specs/md091/
mailxml90/mailxml_sc" schemaLocation="mailxml_sc_121209.xsd"/>

<!-- Mailing Messaging Module -->
<!--<xs:import namespace="http://idealliance.org/maildat/Specs/md091/
mailxml90A/mailxml_mm" schemaLocation="mailxml_mm_121209.xsd"/>-->
```

```
<!-- Identification Module -->
<!--xs:import namespace="http://idealliance.org/maildat/Specs/md091/
mailxml90/mailxml_id" schemaLocation="mailxml_id_121209.xsd"/>-->
```

In the example above only the Transportation Messages and Supply Chain messages are included in the custom profile of MailXML.

Note: The mailxml_base and mailxml_defs modules must be included as they are used by every module.

Step 3: Response Messages

To complete the customization of your MailXML Profile, you must comment out all the response messages that are not included in your profile. The response messages are organized by message set so it should be easy to use XML comments to exclude the response messages that do not fit your profile.

```
<!--=== Message Response Retrieval Response Type ===-->
<!-- Customize your mailXML profile by including only the message
responses for the message modules you are implementing -->
<xs:complexType name="messageResponseRetrievalResponseType">
  <xs:sequence>
    <xs:choice>
      <xs:element name="QueryResults">
        <xs:complexType><xs:sequence>
          <xs:choice>
            <!-- +++++++ Include Transportation Responses +++++++ -->
            <xs:element ref="mailxml_tm:AllApptCloseoutResponse"/>
            <xs:element ref="mailxml_tm:ApptInductionCloseoutResponse"/>
            <xs:element ref="mailxml_tm:ContainerStatusQueryResponse"/>
            <xs:element ref="mailxml_tm:ContainerUpdateResponse"/>
            <xs:element ref="mailxml_tm:CustomerSupplierAgreementQueryResponse"/>
            <xs:element ref="mailxml_tm:DeliveryApptCancelCreateResponse"/>
            <xs:element ref="mailxml_tm:DeliveryApptCancelResponse"/>
            <xs:element ref="mailxml_tm:DeliveryApptContentRemoveResponse"/>
            <xs:element ref="mailxml_tm:DeliveryApptCreateResponse"/>
            <xs:element ref="mailxml_tm:DeliveryApptQueryResponse"/>
            <xs:element ref="mailxml_tm:DeliveryApptShellCancelResponse"/>
            <xs:element ref="mailxml_tm:DeliveryApptShellCreateResponse"/>
            <xs:element ref="mailxml_tm:DeliveryApptShellUpdateResponse"/>
            <xs:element ref="mailxml_tm:DeliveryApptStatusQueryResponse"/>
            <xs:element
ref="mailxml_tm:DeliveryApptTransportationUpdateResponse"/>
            <xs:element ref="mailxml_tm:DeliveryApptUpdateResponse"/>
            <xs:element ref="mailxml_tm:DeliveryContentCancelResponse"/>
            <xs:element ref="mailxml_tm:DeliveryContentCreateResponse"/>
            <xs:element ref="mailxml_tm:DeliveryContentQueryResponse"/>
            <xs:element ref="mailxml_tm:DeliveryContentUpdateResponse"/>
            <xs:element ref="mailxml_tm:GoodsReceiptResponse"/>
            <xs:element ref="mailxml_tm:OpenApptQueryResponse"/>
            <xs:element ref="mailxml_tm:PartnerApptQueryResponse"/>
            <xs:element ref="mailxml_tm:PickupApptCancelResponse"/>
            <xs:element ref="mailxml_tm:PickupApptCreateResponse"/>
            <xs:element ref="mailxml_tm:PickupApptUpdateResponse"/>
            <xs:element ref="mailxml_tm:RecurringApptQueryResponse"/>

            <!-- +++++++ Include Data Distribution Responses +++++++ -->
            <!--<xs:element ref="mailxml_dd:ByForConflictQueryResponse"/>
            <xs:element ref="mailxml_dd:DeliveryPointValidationQueryResponse"/>
            <xs:element
ref="mailxml_dd:FullServiceAddressCorrectionQueryResponse"/>
```

```

<xs:element
ref="mailxml_dd:FullServiceContainerVisibilityQueryResponse"/>
<xs:element
ref="mailxml_dd:FullServiceDataQualityVerificationReportDelivery"/>
<xs:element
ref="mailxml_dd:FullServiceDataQualityVerificationReportQueryResponse"/>
<xs:element ref="mailxml_dd:FullServiceNixieDetailQueryResponse"/>
<xs:element ref="mailxml_dd:FullServiceStartTheClockQueryResponse"/>
-->
<!-- ++++++ Include Mailing Message Responses ++++++ -->
<!--<xs:element ref="mailxml_mm:BeginCombinedMailingResponse"/>
<xs:element ref="mailxml_mm:BundleDetailCancelResponse"/>
<xs:element ref="mailxml_mm:BundleDetailCreateResponse"/>
<xs:element ref="mailxml_mm:CloseMailingGroupResponse"/>
<xs:element
ref="mailxml_mm:ConsolidatedPeriodicalStatementCreateResponse"/>
<xs:element ref="mailxml_mm:ContainerBundleReportCancelResponse"/>
<xs:element ref="mailxml_mm:ContainerBundleReportCreateResponse"/>
<xs:element ref="mailxml_mm:ContainerBundleReportQueryResponse"/>
<xs:element ref="mailxml_mm:CustomerMailReportCreateResponse"/>
<xs:element ref="mailxml_mm:EndCombinedMailingResponse"/>
<xs:element ref="mailxml_mm:MailPieceCancelResponse"/>
<xs:element ref="mailxml_mm:MailPieceCreateResponse"/>
<xs:element ref="mailxml_mm:MailPieceUpdateResponse"/>
<xs:element ref="mailxml_mm:MailingGroupQueryResponse"/>
<xs:element ref="mailxml_mm:OpenMailingGroupResponse"/>
<xs:element ref="mailxml_mm:PaymentMessageQueryResponse"/>
<xs:element ref="mailxml_mm:PeriodicalStatementCreateResponse"/>
<xs:element ref="mailxml_mm:PeriodicalStatementQueryResponse"/>
<xs:element ref="mailxml_mm:PostageStatementCancelResponse"/>
<xs:element ref="mailxml_mm:PostageStatementCreateResponse"/>
<xs:element ref="mailxml_mm:PostageStatementQueryResponse"/>
<xs:element ref="mailxml_mm:PostageStatementStatusQueryResponse"/>
<xs:element ref="mailxml_mm:QualificationReportCreateResponse"/>
<xs:element ref="mailxml_mm:QualificationReportQueryResponse"/>
<xs:element ref="mailxml_mm:ReconciliationReportQueryResponse"/>
<xs:element
ref="mailxml_mm:SummaryZipDestinationReportCreateResponse"/>
-->
<!-- ++++++ Include ID Message Responses ++++++ -->
<!--<xs:element ref="mailxml_id:CastofCharactersCancelResponse"/>
<xs:element ref="mailxml_id:CastofCharactersCreateResponse"/>
<xs:element ref="mailxml_id:CastofCharactersUpdateResponse"/>
<xs:element ref="mailxml_id:CustomerRelationIdentifyQueryResponse"/>
<xs:element ref="mailxml_id:CustomerRelationIdentifyUpdateResponse"/>
<xs:element ref="mailxml_id:USPSRIDCreateResponse"/>
<xs:element ref="mailxml_id:USPSRIDQueryResponse"/>
<xs:element ref="mailxml_id:USPSMIDCreateResponse"/>
<xs:element ref="mailxml_id:USPSMIDQueryResponse"/>
-->

<!-- ++++++ Include Supply Chain Message Responses ++++++ -->
<xs:element ref="mailxml_sc:OriginalContainerLinkageCancelRequest"/>
<xs:element ref="mailxml_sc:OriginalContainerLinkageCancelResponse"/>
<xs:element ref="mailxml_sc:OriginalContainerLinkageCreateRequest"/>
<xs:element ref="mailxml_sc:OriginalContainerLinkageCreateResponse"/>
<xs:element ref="mailxml_sc:PostageAdjustmentCreateRequest"/>
<xs:element ref="mailxml_sc:PostageAdjustmentCreateResponse"/>
<xs:element ref="mailxml_sc:SiblingContainerCancelRequest"/>
<xs:element ref="mailxml_sc:SiblingContainerCancelResponse"/>
<xs:element ref="mailxml_sc:SiblingContainerCreateRequest"/>
<xs:element ref="mailxml_sc:SiblingContainerCreateResponse"/>

```

```

<!-- These System responses are required by all implementations -->
<xs:element ref="mailxml:DeliveryResponse"/>
<xs:element ref="mailxml:NotificationResponse"/>
<xs:element ref="mailxml:SystemVersionQueryResponse"/>

    </xs:choice>
    <xs:element name="ReturnInfo"
type="mailxml_defs:basicReturnInfoType" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
</xs:element>
<xs:element ref="mailxml_defs:QueryError"/>
</xs:choice>
</xs:sequence>
    <xs:attribute name="TrackingID" type="mailxml_base:s12"
use="required"/>
</xs:complexType>

```

Responses for Data Distribution, Mailing Messages and Supply Chain messages have been commented out (or excluded) from the profile that only implements Transportation Messaging and Supply Chain Messages.

Note: If you do not comment out the responses from modules you are not including in your profile, you will get an error message that the response is undefined. This is a clue for you to comment out the responses that do not apply.