

Mail.XML Version 24.0

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.

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About Mail.XML™

Mail.XML™ is bringing a paradigm change to the industry by increasing business function specific B2B (Business to Business) communication within the industry that supports automation and in the end enables cost avoidance and higher profits through improved competence and effectiveness of communication.

Mail.XML is designed to increase efficiency and lower costs by removing many manual data entry processes and enabling quick near real time communication between business partners. Mail.XML currently supports container based scheduling, pick up and drop off business processes, as well as identifying different business entities responsible for performing different services such as quality of mailing, address correction, and delivery confirmation on a mailing. The core focus of Mail.XML is communication between industry members and from industry to the final mail processing and delivery organization that delivers the mail to the end consumer, e.g., USPS. In the next few versions of Mail.XML the focus moves across mailing supply chain channels, and includes advanced functions such as payment; automated verification; enabling first, second, and third party communication and incorporating presort planning, printing, and distribution processes.

What's New in Mail.XML Version 24.0?

With this release, the Mail.XML Messaging Protocol moves to Version 24.0. In addition to minor cleanup, this release supports new elements for Informed Delivery and Informed Platform.

Changes supported by Mail.XML 24.0 include:

- Modify summaryRecordUpdateType (called by ContainerUpdateRequest) increasing the length to 20 for the TruckDispatchNumber and TruckAndDispatchNumber elements
- Modify serviceCodeType removing “RRM” enumeration value for Return Receipt for Merchandise extra service that has already been discontinued
- Changing copyrights and namespaces to reference DTAC, as DTAC is now the owner of the Mail.XML Specification
- Add new USPSCampaignID element to the CampaignData block in order to identify a campaign that originated outside of eDoc

- Add two new elements, InformedAddressIndicator and InformedAddressExpDate, to the QualificationReportSummary (qualificationReportSummaryDataType) to support Informed Address functionality
- Modify ExtraServiceIMPPackageBarcode (in mailPieceBlockType), changing type to intelligentMailPackageBarcodeType, instead of ns34 type
- Modify rateCategoryType adding new enumeration to support Plus One as a permanent product

About Mail.XML Schema Modularization

Today Mail.XML messages are grouped into 8 message types.

- Transportation Messages (TM)
- Mailing Messages (MM)
- Data Distribution Messages (DD)
- Dynamic Payment Template Messages
- Identification Messages (ID)
- Supply Chain Messages (SC)
- Informed Visibility (IV)
- System Messages
- Base: Shared simple types
- Definitions: Shared complex types and elements

The simple types shared across 2 or more modules are found in the Base schema. Likewise, the shared definitions module contains complex type definitions and elements that are shared across 2 or more modules.

Mail.XML Module Versioning Rules

The following versioning rules will be followed:

The Mail.XML wrapper schema**.xsd) will always be given the next higher version number (or Errata designation) when any update is made to base, defs or any module. The name of the .xsd file will indicate the new version and the new version number will be used in the namespace and target declarations: xmlns:mailxml="http://delivery-tech.org/Specs/mailxml24.0/mailxml"
targetNamespace="http://delivery-tech.org/Specs/mailxml24.0/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://delivery-tech.org/Specs/mailxml24.0A/mailxml" then at least one of the XSDs is at same version such as filename ='Mail.XML_24.0A.xsd' <- Errata A
- If the wrapper version is labeled as xmlns:mailxml="http://delivery-tech.org/Specs/mailxml24.0B/mailxml" then at least one of the XSDs is at same version such as filename ='Mail.XML_24.0B.xsd' <- Errata B
- If the wrapper version is labeled as xmlns:mailxml="http://delivery-tech.org/Specs/mailxml24.0/mailxml" then at least one of the XSDs is at same version such as filename ='Mail.XML_24.0.xsd' <- Major Version

Mail.XML 24.0 XSD Modules:

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

Note: Actual xsd filenames include the version number (e.g. *mailxml_base_24.0.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 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 Mail.XML. These can be considered a building block for any message group.
Namespace=mailxml_base:
- mailxml.xsd: This module contains the system messages of Mail.XML and is used to build custom profiles for Mail.XML. Namespace=mailxml:

The Mail.XML™ 24 Messaging Documentation Set

The Mail.XML Messaging Specification has been organized into a set of documents. This *Schemas Specification* is one document in a set of documents that make up the Mail.XML Specification 23.0. Updates in this Specification are NOT backwardly compatible with previous versions. Other documents in the specification set include:

- Mail.XML™ 24.0: Transportation Messaging Specification documents all transportation messages
- Mail.XML™ 24.0: Mailing Messaging Specification documents all mailing messages
- Mail.XML™ 24.0: Informed Visibility Specification documents all informed visibility messages
- Mail.XML™ 24.0: Data Distribution Messaging Specification documents all data distribution messages
- Mail.XML™ 24.0: Identification Messaging Specification documents all identification messages
- Mail.XML™ 24.0: Supply Chain Messaging Specification documents all supply chain messages
- Mail.XML™ 24.0: System Messaging Specification documents all systems and fault messages
- Mail.XML™ 24.0: Simple Types Specification documents all simple types used across Mail.XML messages
- Mail.XML™ 24.0: Common Definitions Specification documents all shared elements and complex types.
- Mail.XML™ 24.0: Schemas contains the .XSDs that make up the Mail.XML Messaging Specification

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1 Index

schema location: [..\\XSDs\\mailxml_iv_24.0.xsd](#)
attribute form default: **qualified**
element form default: **qualified**
targetNamespace: http://delivery-tech.org/Specs/mailxml24.0/mailxml_iv

Elements	Complex types	Simple types
ContainerVisibilityDelivery	clockStartedType	eDocTypeType
ContainerVisibilityEntry	manifestScanEventDetailType	handlingEventTypeType
ContainerVisibilityNotification	manifestScanNotificationDataType	mailObjectTypeType
ContainerVisibilityQueryRequest	manifestScanQueryType	recipientRoleType
ContainerVisibilityQueryResponse	MPSNotificationDataType	scanEventCodeType
IMbMailpieceScanData	MPSRequestTypeType	
MPSVisDelivery	MPSVisScanQueryType	
MPSVisNotification	PSRBlockType	
MPSVisQueryRequest	scanEventQueryTypeType	
MPSVisQueryResponse	ScanEventResultOptionsType	
StartTheClockBMEUBlock		
StartTheClockDelivery		
StartTheClockDropShipOrOrigin		
StartTheClockNotification		
StartTheClockPlantLoadBlock		
StartTheClockQueryRequest		
StartTheClockQueryResponse		

2 Elements

element ContainerVisibilityDelivery

diagram	<pre> classDiagram class ContainerVisibilityDelivery { <<grp mailxml_defs:LargeTrans...>> MessageGroupID TotalMessageCount MessageSerialNumber TransmittedRecords TotalRecordsAcrossAll LastMessage } ContainerVisibilityDelivery "1..>" mailxml_iv:SubmittingParty ContainerVisibilityDelivery "1..>" mailxml_iv:SubmittingSoftware ContainerVisibilityDelivery "1..>" mailxml_defs:DataRecipient ContainerVisibilityDelivery "1..>" mailxml_iv:PushMessageID ContainerVisibilityDelivery "1..>" mailxml_iv:ContainerVisibilityEntry note over ContainerVisibilityDelivery: Delivery of full service container visibility information by uSPS. </pre>
namespace	http://delivery-tech.org/Specs/mailxml24.0/mailxml_iv
children	mailxml_iv:SubmittingParty mailxml_iv:SubmittingSoftware mailxml_defs:DataRecipient mailxml_iv:PushMessageID mailxml_iv:ContainerVisibilityEntry
annotation	<p>documentation</p> <p>Delivery of full service container visibility information by uSPS.</p>

element ContainerVisibilityEntry

diagram	<pre> classDiagram class ContainerVisibilityEntry { <<mailxml_iv>> <<mailxml_base>> <<mailxml_iv>>UserLicenseCode <<mailxml_base>>userLicenseCode... <<mailxml_iv>>MaildatJobID <<mailxml_base>>jobIDType <<mailxml_iv>>CustomerGroupID <<mailxml_base>>s25 <<mailxml_iv>>MailingGroupID <<xs>>nonNegativeInteger <<mailxml_iv>>ConsigneeApptID <<mailxml_base>>s12 <<mailxml_iv>>CSAID <<mailxml_base>>s10 <<mailxml_iv>>ContainerID <<mailxml_base>>s06 <<mailxml_iv>>MailObjectType <<mailxml_iv>>mailObjectTypeType <<mailxml_iv>>HandlingEventType <<mailxml_iv>>handlingEventResponseType <<mailxml_iv>>ParentContainerID <<mailxml_base>>s06 <<mailxml_iv>>SiblingContainerID <<mailxml_base>>s06 <<mailxml_iv>>ContainerType <<mailxml_base>>mailXMLContainer... <<mailxml_iv>>ScanEvent <<mailxml_defs>>scanEventType <<mailxml_iv>>IMcb <<mailxml_base>>IMcbType <<mailxml_iv>>IMtb <<mailxml_base>>IMtbType <<mailxml_iv>>IMpb <<mailxml_base>>IMpbType <<mailxml_iv>>FullServiceComplianceIndicator <<mailxml_defs>>fullServiceComplianceIndicator <<mailxml_iv>>FullServiceNonComplianceReasonCode <<mailxml_defs>>reasonCodeType <<mailxml_iv>>FSNonFSAvailabilityDate <<xs>>date <<mailxml_iv>>FullServiceIndicator <<mailxml_base>>yesNoType <<mailxml_iv>>ScanEventCode <<mailxml_iv>>scanEventCodeType <<mailxml_iv>>RecipientRole <<mailxml_iv>>recipientRoleType } </pre>
namespace	http://delivery-tech.org/Specs/mailxml24.0/mailxml_iv
children	mailxml_iv:UserLicenseCode mailxml_iv:MaildatJobID mailxml_iv:CustomerGroupID mailxml_iv:MailingGroupID mailxml_iv:ConsigneeApptID mailxml_iv:CSAID mailxml_iv:ContainerID mailxml_iv:MailObjectType mailxml_iv:HandlingEventType mailxml_iv:ParentContainerID mailxml_iv:SiblingContainerID mailxml_iv:ContainerType mailxml_iv:ScanEvent mailxml_iv:IMcb mailxml_iv:IMtb mailxml_iv:IMpb mailxml_iv:FullServiceComplianceIndicator mailxml_iv:FullServiceNonComplianceReasonCode mailxml_iv:FSNonFSAvailabilityDate mailxml_iv:FullServiceIndicator mailxml_iv:ScanEventCode mailxml_iv:RecipientRole
used by	elements ContainerVisibilityDelivery ContainerVisibilityQueryResponse/QueryResults

element **ContainerVisibilityNotification**

diagram	<pre> classDiagram class ContainerVisibilityNotification { <<Notification sent by USPS that full service container visibility information is ready for pickup.>> } class SubmittingParty class SubmittingSoftware class PushMessageID class UserLicenseCode class MaildatJobID class CustomerGroupID class MailingGroupID class FSNonFSAvailabilityDate class AvailableRecordCount class CountType class NotificationDate ContainerVisibilityNotification "1" --> "1" SubmittingParty ContainerVisibilityNotification "1" --> "1" SubmittingSoftware ContainerVisibilityNotification "1" --> "1" PushMessageID ContainerVisibilityNotification "*" --> "1" UserLicenseCode ContainerVisibilityNotification "*" --> "1" MaildatJobID ContainerVisibilityNotification "*" --> "1" CustomerGroupID ContainerVisibilityNotification "*" --> "1" MailingGroupID ContainerVisibilityNotification "*" --> "1" FSNonFSAvailabilityDate ContainerVisibilityNotification "*" --> "1" AvailableRecordCount ContainerVisibilityNotification "*" --> "1" CountType ContainerVisibilityNotification "*" --> "1" NotificationDate </pre> <p>The diagram illustrates the structure of the <code>ContainerVisibilityNotification</code> element. It consists of several components:</p> <ul style="list-style-type: none"> <code>SubmittingParty</code>, <code>SubmittingSoftware</code>, and <code>PushMessageID</code> are required fields. <code>UserLicenseCode</code>, <code>MaildatJobID</code>, <code>CustomerGroupID</code>, and <code>MailingGroupID</code> are optional fields. <code>FSNonFSAvailabilityDate</code>, <code>AvailableRecordCount</code>, and <code>CountType</code> are optional fields. <code>NotificationDate</code> is an optional field. A note indicates: <code><<Notification sent by USPS that full service container visibility information is ready for pickup.>></code>
namespace	http://delivery-tech.org/Specs/mailxml24.0/mailxml_iv
children	<code>mailxml_iv:SubmittingParty</code> <code>mailxml_iv:SubmittingSoftware</code> <code>mailxml_iv:PushMessageID</code> <code>mailxml_iv:UserLicenseCode</code> <code>mailxml_iv:MaildatJobID</code> <code>mailxml_iv:CustomerGroupID</code> <code>mailxml_iv:MailingGroupID</code> <code>mailxml_iv:FSNonFSAvailabilityDate</code> <code>mailxml_iv:AvailableRecordCount</code> <code>mailxml_iv:CountType</code> <code>mailxml_iv:NotificationDate</code>
annotation	<p>documentation</p> <p>Notification sent by USPS that full service container visibility information is ready for pickup.</p>

element ContainerVisibilityQueryRequest

diagram	<pre> classDiagram class ContainerVisibilityQueryRequest { <<Query request for full service container visibility information.>> } class mailxml_iv_SubmittingParty class mailxml_iv_SubmittingSoftware class mailxml_iv_SubmitterTrackingID class mailxml_iv_UserLicenseCode class mailxml_iv_MaildatJobID class mailxml_iv_CustomerGroupID class mailxml_iv_MailingGroupID class mailxml_iv_DateRange class mailxml_iv_ConsigneeApptID class mailxml_iv_CSAILD class mailxml_iv_IMcb class mailxml_iv_IMtb class mailxml_iv_IMpb class mailxml_iv_USPSFacilityLocaleKey class mailxml_iv_ContainerScanState class mailxml_iv_retrieveDataBy class mailxml_iv_MailObjectType class mailxml_iv_HandlingEventType class mailxml_iv_ScanEventCode class mailxml_iv_RecipientRole ContainerVisibilityQueryRequest "0..1" --> mailxml_iv_SubmittingParty ContainerVisibilityQueryRequest "0..1" --> mailxml_iv_SubmittingSoftware ContainerVisibilityQueryRequest "0..1" --> mailxml_iv_SubmitterTrackingID ContainerVisibilityQueryRequest "0..1" --> mailxml_iv_UserLicenseCode ContainerVisibilityQueryRequest "0..1" --> mailxml_iv_MaildatJobID ContainerVisibilityQueryRequest "0..1" --> mailxml_iv_CustomerGroupID ContainerVisibilityQueryRequest "0..1" --> mailxml_iv_MailingGroupID ContainerVisibilityQueryRequest "0..1" --> mailxml_iv_DateRange ContainerVisibilityQueryRequest "0..1" --> mailxml_iv_ConsigneeApptID ContainerVisibilityQueryRequest "0..1" --> mailxml_iv_CSAILD ContainerVisibilityQueryRequest "0..1" --> mailxml_iv_IMcb ContainerVisibilityQueryRequest "0..1" --> mailxml_iv_IMtb ContainerVisibilityQueryRequest "0..1" --> mailxml_iv_IMpb ContainerVisibilityQueryRequest "0..1" --> mailxml_iv_USPSFacilityLocaleKey ContainerVisibilityQueryRequest "0..1" --> mailxml_iv_ContainerScanState ContainerVisibilityQueryRequest "0..1" --> mailxml_iv_retrieveDataBy ContainerVisibilityQueryRequest "0..1" --> mailxml_iv_MailObjectType ContainerVisibilityQueryRequest "0..1" --> mailxml_iv_HandlingEventType ContainerVisibilityQueryRequest "0..1" --> mailxml_iv_ScanEventCode ContainerVisibilityQueryRequest "0..1" --> mailxml_iv_RecipientRole </pre> <p>The diagram illustrates the structure of the <code>ContainerVisibilityQueryRequest</code> element. It is a complex type (complexType) defined by the namespace <code>http://delivery-tech.org/Specs/mailxml24.0/mailxml_iv</code>. The element contains several sub-elements (children) which are also complex types:</p> <ul style="list-style-type: none"> <code>SubmittingParty</code> <code>SubmittingSoftware</code> <code>SubmitterTrackingID</code> <code>UserLicenseCode</code> <code>MaildatJobID</code> <code>CustomerGroupID</code> <code>MailingGroupID</code> <code>DateRange</code> <code>ConsigneeApptID</code> <code>CSAILD</code> <code>IMcb</code> <code>IMtb</code> <code>IMpb</code> <code>USPSFacilityLocaleKey</code> <code>ContainerScanState</code> <code>retrieveDataBy</code> <code>MailObjectType</code> <code>HandlingEventType</code> <code>ScanEventCode</code> <code>RecipientRole</code> <p>Each of these sub-elements has its own detailed structure, indicated by dashed boxes and further nested elements.</p>
namespace	<code>http://delivery-tech.org/Specs/mailxml24.0/mailxml_iv</code>
children	<code>mailxml_iv:SubmittingParty</code> <code>mailxml_iv:SubmittingSoftware</code> <code>mailxml_iv:SubmitterTrackingID</code> <code>mailxml_iv:UserLicenseCode</code> <code>mailxml_iv:MaildatJobID</code> <code>mailxml_iv:CustomerGroupID</code> <code>mailxml_iv:MailingGroupID</code> <code>mailxml_iv:DateRange</code> <code>mailxml_iv:ConsigneeApptID</code> <code>mailxml_iv:CSAILD</code> <code>mailxml_iv:IMcb</code> <code>mailxml_iv:IMtb</code> <code>mailxml_iv:IMpb</code> <code>mailxml_iv:USPSFacilityLocaleKey</code> <code>mailxml_iv:ContainerScanState</code> <code>mailxml_iv:retrieveDataBy</code> <code>mailxml_iv:MailObjectType</code> <code>mailxml_iv:HandlingEventType</code> <code>mailxml_iv:ScanEventCode</code> <code>mailxml_iv:RecipientRole</code>
annotation	<p>documentation</p> <p>Query request for full service container visibility information.</p>

element ContainerVisibilityQueryResponse

diagram	<p>The diagram illustrates the structure of the <code>ContainerVisibilityQueryResponse</code> element. It consists of the following components:</p> <ul style="list-style-type: none"> Attributes: <ul style="list-style-type: none"> <code>grp mailxml_defs:LargeTrans...</code> <code>mailxml_defs:MessageGroupID</code> <code>mailxml_defs:TotalMessageCou...</code> <code>mailxml_defs:MessageSerialNu...</code> <code>mailxml_defs:TransmittedRecor...</code> <code>mailxml_defs:TotalRecordsAcro...</code> <code>mailxml_defs>LastMessage</code> Associations: <ul style="list-style-type: none"> <code>mailxml_iv:TrackingID</code> (type <code>mailxml_base:s20</code>) <code>mailxml_iv:SubmitterTrackingID</code> (type <code>mailxml_base:s20</code>) <code>mailxml_iv:QueryResults</code> (type <code>mailxml_iv:QueryResults</code>) <code>mailxml_defs:QueryError</code> (type <code>mailxml_defs:QueryError</code>) <p>Annotations:</p> <ul style="list-style-type: none"> <code>ContainerVisibilityQueryRespo...</code>: Response to the Query request for full service container visibility information. <code>mailxml_iv:QueryResults</code>: Error issued when the query data cannot be provided.
namespace	http://delivery-tech.org/Specs/mailxml24.0/mailxml_iv
children	<code>mailxml_iv:TrackingID</code> <code>mailxml_iv:SubmitterTrackingID</code> <code>mailxml_iv:QueryResults</code> <code>mailxml_defs:QueryError</code>
annotation	documentation Response to the Query request for full service container visibility information.

element IMbMailpieceScanData

diagram	<p>The diagram illustrates the structure of the <code>IMbMailpieceScanData</code> element. It consists of the following components:</p> <ul style="list-style-type: none"> Attributes: <ul style="list-style-type: none"> <code>mailxml_iv:UserLicenseCode</code> (type <code>mailxml_base:userLicenseCode...</code>) <code>mailxml_iv:MaildatJobID</code> (type <code>mailxml_base:jobIDType</code>) <code>mailxml_iv:CustomerGroupID</code> (type <code>mailxml_base:s25</code>) <code>mailxml_iv:MailingGroupID</code> (type <code>xs:nonNegativeInteger</code>) Associations: <ul style="list-style-type: none"> <code>IMbMailpieceScanData</code> (type <code>IMbMailpieceScanData</code>) <code>mailxml_iv:MailBundleCount</code> (type <code>xs:nonNegativeInteger</code>) <code>mailxml_iv:MPSCount</code> (type <code>xs:nonNegativeInteger</code>) <code>mailxml_iv:IMcbAndIMtbPieceS...</code> (type <code>mailxml_defs:IMcbAndIMtbPiec...</code>) <code>mailxml_iv:IMcbPieceScanInfo</code> (type <code>mailxml_defs:IMcbPieceScanInf...</code>) <code>mailxml_iv:IMtbPieceScanInfo</code> (type <code>mailxml_defs:IMtbPieceScanInf...</code>) <code>mailxml_iv:IMbScanRec</code> (type <code>mailxml_base:s500</code>)
---------	---

namespace	http://delivery-tech.org/Specs/mailxml24.0/mailxml_iv
children	mailxml_iv:UserLicenseCode mailxml_iv:MaildatJobID mailxml_iv:CustomerGroupID mailxml_iv:MailingGroupID mailxml_iv:MailBundleCount mailxml_iv:MPSCount mailxml_iv:IMcbAndIMtbPieceScanInfo mailxml_iv:IMcbPieceScanInfo mailxml_iv:IMtbPieceScanInfo mailxml_iv:IMbScanRec
used by	elements MPSVisQueryResponse/QueryResults MPSVisDelivery

element **MPSVisDelivery**

diagram	
namespace	http://delivery-tech.org/Specs/mailxml24.0/mailxml_iv
children	mailxml_iv:SubmittingParty mailxml_iv:SubmittingSoftware mailxml_iv:AssumedScans mailxml_iv:eDocType mailxml_defs:DataRecipient mailxml_iv:PushMessageID mailxml_iv:IMbMailpieceScanData mailxml_iv:ManifestScanEvent mailxml_iv:UnManifestedScanEventDetail
annotation	documentation Delivery of the Mail Piece Scanned Data to customer by USPS.

element MPSVisNotification

diagram	<pre> classDiagram class MPSVisNotification { <<Notification from USPS that the Mail Piece Scanned Data is ready.>> } class mailxml_ivSubmittingParty class mailxml_ivSubmittingSoftware class mailxml_ivAssumedScans class mailxml_iveDocType class mailxml_defsDataRecipient class mailxml_ivPushMessageID class mailxml_ivUserLicenseCode class mailxml_ivMaildatJobID class mailxml_ivCustomerGroupID class mailxml_ivMailingGroupID class mailxml_ivAvailableRecordCount class mailxml_ivNotificationDate class mailxml_ivMPSNotificationData class mailxml_ivManifestScanNotification MPSVisNotification "1" --> "1" mailxml_ivSubmittingParty MPSVisNotification "1" --> "1" mailxml_ivSubmittingSoftware MPSVisNotification "1" --> "1" mailxml_ivAssumedScans MPSVisNotification "1" --> "1" mailxml_iveDocType MPSVisNotification "1" --> "1" mailxml_defsDataRecipient MPSVisNotification "1" --> "1" mailxml_ivPushMessageID MPSVisNotification "1" --> "1" mailxml_ivUserLicenseCode MPSVisNotification "1" --> "1" mailxml_ivMaildatJobID MPSVisNotification "1" --> "1" mailxml_ivCustomerGroupID MPSVisNotification "1" --> "1" mailxml_ivMailingGroupID MPSVisNotification "1" --> "1" mailxml_ivAvailableRecordCount MPSVisNotification "1" --> "1" mailxml_ivNotificationDate MPSVisNotification "1" --> "1" mailxml_ivMPSNotificationData MPSVisNotification "1" --> "1" mailxml_ivManifestScanNotification </pre> <p>Notification from USPS that the Mail Piece Scanned Data is ready.</p>
namespace	http://delivery-tech.org/Specs/mailxml24.0/mailxml_iv
children	mailxml_iv:SubmittingParty mailxml_iv:SubmittingSoftware mailxml_iv:AssumedScans mailxml_iv:eDocType mailxml_defs:DataRecipient mailxml_iv:PushMessageID mailxml_iv:UserLicenseCode mailxml_iv:MaildatJobID mailxml_iv:CustomerGroupID mailxml_iv:MailingGroupID mailxml_iv:AvailableRecordCount mailxml_iv:NotificationDate mailxml_iv:MPSNotificationData mailxml_iv:ManifestScanNotification
annotation	<p>documentation</p> <p>Notification from USPS that the Mail Piece Scanned Data is ready.</p>

element MPSVisQueryRequest

diagram	<pre> classDiagram class MPSVisQueryRequest { <<Manifest Scan Query Request>> } class mailxml_ivSubmittingParty class mailxml_ivSubmittingSoftware class mailxml_ivSubmitterTrackingID class mailxml_ivManifestScanQuery class mailxml_ivMPSVisScanQueryType class mailxml_ivRetrieveDataBy MPSVisQueryRequest "1" --> "1" mailxml_ivSubmittingParty MPSVisQueryRequest "1" --> "1" mailxml_ivSubmittingSoftware MPSVisQueryRequest "1" --> "1" mailxml_ivSubmitterTrackingID MPSVisQueryRequest "1" --> "1" mailxml_ivManifestScanQuery MPSVisQueryRequest "1" --> "1" mailxml_ivMPSVisScanQueryType MPSVisQueryRequest "1" --> "1" mailxml_ivRetrieveDataBy </pre>
---------	---

namespace	http://delivery-tech.org/Specs/mailxml24.0/mailxml_iv
children	mailxml_iv:SubmittingParty mailxml_iv:SubmittingSoftware mailxml_iv:SubmitterTrackingID mailxml_iv:ManifestScanQuery mailxml_iv:MPSVisScanQueryType mailxml_iv:RetrieveDataBy

element MPSVisQueryResponse

diagram	<pre> classDiagram class MPSVisQueryResponse { attribute grp "grp mailxml_defs:LargeTrans..." attribute mailxml_defs:MessageGroupID attribute mailxml_defs:TotalMessageCou... attribute mailxml_defs:MessageSerialNu... attribute mailxml_defs:TransmittedRecor... attribute mailxml_defs:TotalRecordsAcro... attribute mailxml_defs>LastMessage association mailxml_iv:TrackingID association mailxml_iv:SubmitterTrackingID association mailxml_iv:eDocType association mailxml_iv:QueryResults association mailxml_defs:QueryError } </pre> <p>Error issued when the query data cannot be provided.</p>
namespace	http://delivery-tech.org/Specs/mailxml24.0/mailxml_iv
children	mailxml_iv:TrackingID mailxml_iv:SubmitterTrackingID mailxml_iv:eDocType mailxml_iv:QueryResults mailxml_defs:QueryError

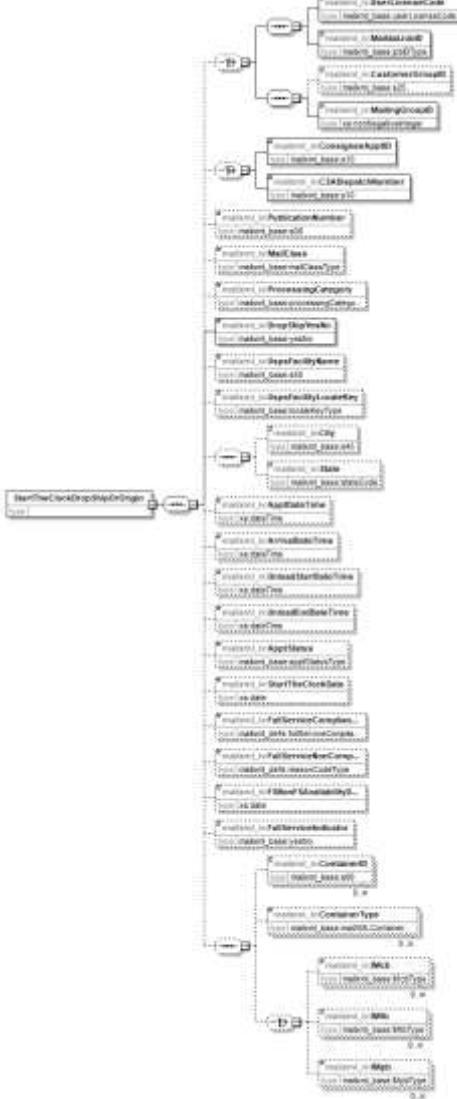
element StartTheClockBMEUBlock

diagram	<pre> sequenceDiagram participant A as StartTheClockBMEUBlock participant B as mailxml_iv:StartTheClockBMEU A->>B activate B B-->>A deactivate B </pre>
namespace	http://delivery-tech.org/Specs/mailxml24.0/mailxml_iv
children	mailxml_iv:StartTheClockBMEU
used by	complexType clockStartedType

element StartTheClockDelivery

diagram	<pre> sequenceDiagram participant P1 participant DR participant P2 P1->>DR: StartTheClockDelivery activate DR DR->>P2: PushMessageID deactivate DR note over P2: mailxml_iv:ClockStarted </pre>
namespace	http://delivery-tech.org/Specs/mailxml24.0/mailxml_iv
children	mailxml_iv:SubmittingParty mailxml_iv:SubmittingSoftware mailxml_defs:DataRecipient mailxml_iv:PushMessageID mailxml_iv:ClockStarted
annotation	documentation Delivery of start the clock information to customer by USPS.

element StartTheClockDropShipOrOrigin

diagram	
namespace	http://delivery-tech.org/Specs/mailxml24.0/mailxml_iv
children	<p>mailxml_iv:UserLicenseCode mailxml_iv:MaildatJobID mailxml_iv:CustomerGroupID mailxml_iv:MailingGroupID mailxml_iv:ConsigneeApptID mailxml_iv:CSADispatchNumber mailxml_iv:PublicationNumber mailxml_iv:MailClass mailxml_iv:ProcessingCategory mailxml_iv:DropShipYesNo mailxml_iv:UspsFacilityName mailxml_iv:UspsFacilityLocaleKey mailxml_iv:City mailxml_iv:State mailxml_iv:ApptDateTime mailxml_iv:ArrivalDateTime mailxml_iv:UnloadStartDateTime mailxml_iv:UnloadEndDateTime mailxml_iv:ApptStatus mailxml_iv:StartTheClockDate mailxml_iv:FullServiceComplianceIndicator mailxml_iv:FullServiceNonComplianceReasonCode mailxml_iv:FSNonFSAvailabilityDate mailxml_iv:FullServiceIndicator mailxml_iv:ContainerID mailxml_iv:ContainerType mailxml_iv:IMcb mailxml_iv:IMtb mailxml_iv:IMpb</p>
used by	element <code>clockStartedType/StartTheClockDropShipOrOriginBlock</code>

element StartTheClockNotification

diagram	<pre> classDiagram class StartTheClockNotification { <<Notification from USPS that start the clock information is ready to be picked up.>> } class mailxml_ivSubmittingParty class mailxml_ivSubmittingSoftware class mailxml_defsDataRecipient class mailxml_ivPushMessageID class mailxml_ivUserLicenseCode class mailxml_ivMaildatJobID class mailxml_ivCustomerGroupID class mailxml_ivMailingGroupID class mailxml_ivFSNonFSAvailabilityDate class mailxml_ivNotificationDate StartTheClockNotification --> mailxml_ivSubmittingParty StartTheClockNotification --> mailxml_ivSubmittingSoftware StartTheClockNotification --> mailxml_defsDataRecipient StartTheClockNotification --> mailxml_ivPushMessageID mailxml_ivPushMessageID --> mailxml_ivUserLicenseCode mailxml_ivPushMessageID --> mailxml_ivMaildatJobID mailxml_ivPushMessageID --> mailxml_ivCustomerGroupID mailxml_ivPushMessageID --> mailxml_ivMailingGroupID mailxml_ivPushMessageID --> mailxml_ivFSNonFSAvailabilityDate mailxml_ivPushMessageID --> mailxml_ivNotificationDate </pre>
namespace	http://delivery-tech.org/Specs/mailxml24.0/mailxml_iv
children	mailxml_iv:SubmittingParty mailxml_iv:SubmittingSoftware mailxml_defs:DataRecipient mailxml_iv:PushMessageID mailxml_iv:UserLicenseCode mailxml_iv:MaildatJobID mailxml_iv:CustomerGroupID mailxml_iv:MailingGroupID mailxml_iv:FSNonFSAvailabilityDate mailxml_iv:NotificationDate
annotation	documentation Notification from USPS that start the clock information is ready to be picked up.

element StartTheClockPlantLoadBlock

diagram	<pre> classDiagram class StartTheClockPlantLoadBlock class mailxml_ivStartTheClockPlantLoad StartTheClockPlantLoadBlock --> mailxml_ivStartTheClockPlantLoad </pre>
namespace	http://delivery-tech.org/Specs/mailxml24.0/mailxml_iv
children	mailxml_iv:StartTheClockPlantLoad
used by	complexType clockStartedType

element **StartTheClockQueryRequest**

diagram	<pre> classDiagram class StartTheClockQueryRequest { <<Query request for start the clock information.>> } class mailxml_ivSubmittingParty class mailxml_ivSubmittingSoftware class mailxml_ivSubmitterTrackingID class mailxml_ivConsigneeApptID class mailxml_ivCSADispatchNumber class mailxml_ivUserLicenseCode class mailxml_ivMaildatJobID class mailxml_ivCustomerGroupID class mailxml_ivMailingGroupID class mailxml_ivCustomerAccount class mailxml_ivLowerDateRange class mailxml_ivUpperDateRange class mailxml_ivretrieveDataBy StartTheClockQueryRequest "1" --> "1" mailxml_ivSubmittingParty StartTheClockQueryRequest "1" --> "1" mailxml_ivSubmittingSoftware StartTheClockQueryRequest "1" --> "1" mailxml_ivSubmitterTrackingID StartTheClockQueryRequest "*" --> "1" mailxml_ivConsigneeApptID StartTheClockQueryRequest "*" --> "1" mailxml_ivCSADispatchNumber StartTheClockQueryRequest "*" --> "1" mailxml_ivUserLicenseCode StartTheClockQueryRequest "*" --> "1" mailxml_ivMaildatJobID StartTheClockQueryRequest "*" --> "1" mailxml_ivCustomerGroupID StartTheClockQueryRequest "*" --> "1" mailxml_ivMailingGroupID StartTheClockQueryRequest "*" --> "1" mailxml_ivCustomerAccount StartTheClockQueryRequest "*" --> "1" mailxml_ivLowerDateRange StartTheClockQueryRequest "*" --> "1" mailxml_ivUpperDateRange StartTheClockQueryRequest "*" --> "1" mailxml_ivretrieveDataBy </pre>
namespace	http://delivery-tech.org/Specs/mailxml24.0/mailxml_iv
children	mailxml_iv:SubmittingParty mailxml_iv:SubmittingSoftware mailxml_iv:SubmitterTrackingID mailxml_iv:ConsigneeApptID mailxml_iv:CSADispatchNumber mailxml_iv:UserLicenseCode mailxml_iv:MaildatJobID mailxml_iv:CustomerGroupID mailxml_iv:MailingGroupID mailxml_iv:CustomerAccount mailxml_iv:LowerDateRange mailxml_iv:UpperDateRange mailxml_iv:retrieveDataBy
annotation	<p>documentation</p> <p>Query request for start the clock information.</p>

element StartTheClockQueryResponse

diagram	<p>The diagram illustrates the structure of the <code>StartTheClockQueryResponse</code> element. It consists of a main class <code>StartTheClockQueryResponse</code> with the following attributes:</p> <ul style="list-style-type: none"> <code>grp mailxml_defs:LargeTrans...</code> <code>mailxml_defs:MessageGroupID</code> <code>mailxml_defs:TotalMessageCou...</code> <code>mailxml_defs:MessageSerialNu...</code> <code>mailxml_defs:TransmittedRecor...</code> <code>mailxml_defs:TotalRecordsAcro...</code> <code>mailxml_defs:LastMessage</code> <p>Associations from the <code>StartTheClockQueryResponse</code> class point to:</p> <ul style="list-style-type: none"> <code>mailxml_iv:TrackingID</code> (type <code>mailxml_base:s20</code>) <code>mailxml_iv:SubmitterTrackingID</code> (type <code>mailxml_base:s20</code>) <code>mailxml_iv:QueryResults</code> (type <code>mailxml_iv:QueryResults</code>) <code>mailxml_defs:QueryError</code> (type <code>mailxml_defs:QueryError</code>) <p>A note indicates: "Error issued when the query data cannot be provided."</p>
namespace	http://delivery-tech.org/Specs/mailxml24.0/mailxml_iv
children	<code>mailxml_iv:TrackingID</code> <code>mailxml_iv:SubmitterTrackingID</code> <code>mailxml_iv:QueryResults</code> <code>mailxml_defs:QueryError</code>
annotation	documentation Response to the query for start the clock information.

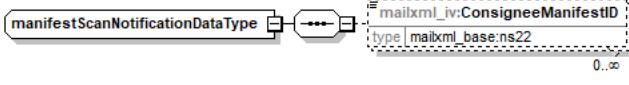
complexType clockStartedType

diagram	<p>The diagram illustrates the structure of the <code>clockStartedType</code> complex type. It features a sequence of parallel regions separated by double vertical bars (). The regions are:</p> <ul style="list-style-type: none"> <code>mailxml_iv:StartTheClockBMEU...</code> (multiplicity 0..∞) <code>mailxml_iv:StartTheClockDropS...</code> (multiplicity 0..∞) <code>mailxml_iv:StartTheClockPlant...</code> (multiplicity 0..∞)
namespace	http://delivery-tech.org/Specs/mailxml24.0/mailxml_iv
children	<code>mailxml_iv:StartTheClockBMEUBlock</code> <code>mailxml_iv:StartTheClockDropShipOrOriginBlock</code> <code>mailxml_iv:StartTheClockPlantLoadBlock</code>
used by	elements <code>StartTheClockDelivery/ClockStarted</code> <code>StartTheClockQueryResponse/QueryResults/ClockStarted</code>

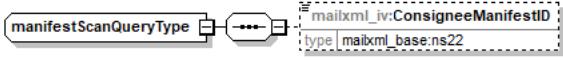
complexType manifestScanEventDetailType

diagram	
namespace	http://delivery-tech.org/Specs/mailxml24.0/mailxml_iv
children	mailxml_iv:USPSEventExtractFileVersionNumber mailxml_iv:IMpb mailxml_iv:ElectronicFileNumber mailxml_iv:MailerID mailxml_iv:MailerName mailxml_iv:DestinationZipCode mailxml_iv:DestinationZipPlusFour mailxml_iv:ScanningFacilityZip mailxml_iv:ScanningFacilityName mailxml_iv:EventCode mailxml_iv:EventName mailxml_iv:EventType mailxml_iv:EventTime mailxml_iv:MailerOwnerID mailxml_iv:CustomerReferenceID mailxml_iv:DestinationCountryCode mailxml_iv:RecipientName mailxml_iv:OriginalLabel mailxml_iv:UnitofMeasureCode mailxml_iv:Weight mailxml_iv:GuaranteedDeliveryDate mailxml_iv:GuaranteedDeliveryTime mailxml_iv:LogisticsManagerMailerID
used by	elements MPSVisDelivery/ManifestScanEvent/ManifestScanEventDetail MPSVisQueryResponse/QueryResults/ManifestScanEvent/ManifestScanEventDetail MPSVisDelivery/UnManifestedScanEventDetail MPSVisQueryResponse/QueryResults/UnManifestedScanEventDetail

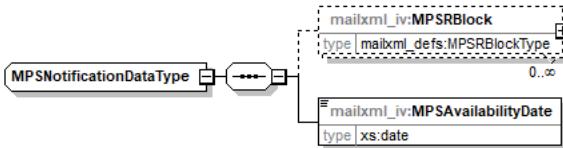
complexType manifestScanNotificationDataType

diagram	
namespace	http://delivery-tech.org/Specs/mailxml24.0/mailxml_iv
children	mailxml_iv:ConsigneeManifestID
used by	element MPSVisNotification/ManifestScanNotification

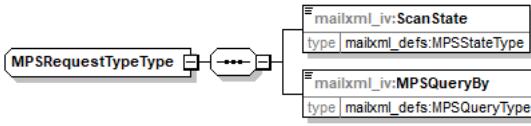
complexType manifestScanQueryType

diagram	
namespace	http://delivery-tech.org/Specs/mailxml24.0/mailxml_iv
children	mailxml_iv:ConsigneeManifestID
used by	element MPSVisQueryRequest/ManifestScanQuery

complexType MPSNotificationDataType

diagram	
namespace	http://delivery-tech.org/Specs/mailxml24.0/mailxml_iv
children	mailxml_iv:MPSRBlock mailxml_iv:MPSAvailabilityDate
used by	element MPSVisNotification/MPSNotificationData

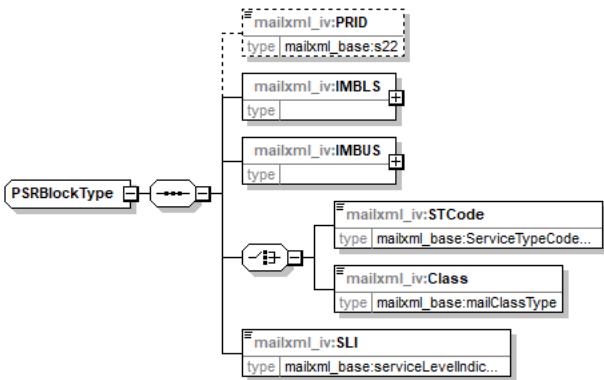
complexType MPSRequestTypeType

diagram	
namespace	http://delivery-tech.org/Specs/mailxml24.0/mailxml_iv
children	mailxml_iv:ScanState mailxml_iv:MPSQueryBy

complexType MPSVisScanQueryType

diagram	<pre> classDiagram class MPSVisScanQueryType { UserLicenseCode MaildataJobID CustomerGroupID MailingGroupID ResultOptions RangeLowerDate RangeUpperDate MID6OnThePiece MID9OnThePiece FacilityLocaleKey EventType BundleScanType IMcb IMtb IMB BundleID FieldIncludedScanRecFlag } </pre>
namespace	http://delivery-tech.org/Specs/mailxml24.0/mailxml_iv
children	mailxml_iv:UserLicenseCode mailxml_iv:MaildataJobID mailxml_iv:CustomerGroupID mailxml_iv:MailingGroupID mailxml_iv:ResultOptions mailxml_iv:RangeLowerDate mailxml_iv:RangeUpperDate mailxml_iv:MID6OnThePiece mailxml_iv:MID9OnThePiece mailxml_iv:FacilityLocaleKey mailxml_iv:EventType mailxml_iv:BundleScanType mailxml_iv:IMcb mailxml_iv:IMtb mailxml_iv:IMB mailxml_iv:BundleID mailxml_iv:FieldIncludedScanRecFlag
used by	element MPSVisQueryRequest/MPSVisScanQueryType

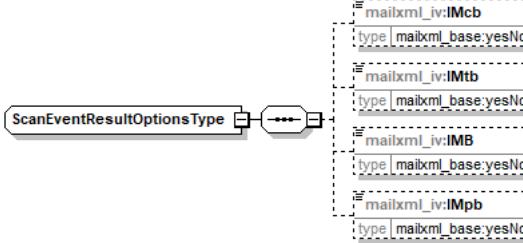
complexType PSRBlockType

diagram	
namespace	http://delivery-tech.org/Specs/mailxml24.0/mailxml_iv
children	mailxml_iv:PRID mailxml_iv:IMBLS mailxml_iv:IMBUS mailxml_iv:STCode mailxml_iv:Class mailxml_iv:SLI

complexType **scanEventQueryType**

diagram	<pre> classDiagram class scanEventQueryType class UserLicenseCode class MaildatJobID class CustomerGroupID class MailingGroupID class ResultOptions class RangeLowerDate class RangeUpperDate class MID6OnThePiece class MID9OnThePiece class FacilityLocaleKey class EventType class BundleScanType class IMcb class IMtb class IMB class BundleID class FieldIncludedScanR... scanEventQueryType < -- UserLicenseCode scanEventQueryType < -- MaildatJobID scanEventQueryType < -- CustomerGroupID scanEventQueryType < -- MailingGroupID scanEventQueryType < -- ResultOptions scanEventQueryType *-- RangeLowerDate scanEventQueryType *-- RangeUpperDate scanEventQueryType *-- MID6OnThePiece scanEventQueryType *-- MID9OnThePiece scanEventQueryType *-- FacilityLocaleKey scanEventQueryType *-- EventType scanEventQueryType *-- BundleScanType scanEventQueryType *-- IMcb scanEventQueryType *-- IMtb scanEventQueryType *-- IMB scanEventQueryType *-- BundleID scanEventQueryType *-- FieldIncludedScanR... </pre>
namespace	http://delivery-tech.org/Specs/mailxml24.0/mailxml_iv
children	mailxml_iv:UserLicenseCode mailxml_iv:MaildatJobID mailxml_iv:CustomerGroupID mailxml_iv:MailingGroupID mailxml_iv:ResultOptions mailxml_iv:RangeLowerDate mailxml_iv:RangeUpperDate mailxml_iv:MID6OnThePiece mailxml_iv:MID9OnThePiece mailxml_iv:FacilityLocaleKey mailxml_iv:EventType mailxml_iv:BundleScanType mailxml_iv:IMcb mailxml_iv:IMtb mailxml_iv:IMB mailxml_iv:BundleID mailxml_iv:FieldIncludedScanR...

complexType ScanEventResultOptionsType

diagram	
namespace	http://delivery-tech.org/Specs/mailxml24.0/mailxml_iv
children	mailxml_iv:IMcb mailxml_iv:IMtb mailxml_iv:IMB mailxml_iv:IMPb
used by	element scanEventQueryTypeType/ResultOptions

simpleType eDocTypeType

namespace	http://delivery-tech.org/Specs/mailxml24.0/mailxml_iv
type	restriction of xs:string
used by	elements MPSVisDelivery/eDocType MPSVisNotification/eDocType MPSVisQueryResponse/eDocType

simpleType handlingEventTypeType

namespace	http://delivery-tech.org/Specs/mailxml24.0/mailxml_iv
type	restriction of xs:string
used by	elements ContainerVisibilityQueryRequest/HandlingEventType ContainerVisibilityEntry/HandlingEventType

simpleType mailObjectTypeType

namespace	http://delivery-tech.org/Specs/mailxml24.0/mailxml_iv
type	restriction of xs:string
used by	elements ContainerVisibilityQueryRequest/MailObjectType ContainerVisibilityEntry/MailObjectType

simpleType recipientRoleType

namespace	http://delivery-tech.org/Specs/mailxml24.0/mailxml_iv
type	restriction of xs:string
used by	elements ContainerVisibilityQueryRequest/RecipientRole ContainerVisibilityEntry/RecipientRole

simpleType scanEventCodeType

namespace	http://delivery-tech.org/Specs/mailxml24.0/mailxml_iv
type	restriction of xs:string
used by	elements ContainerVisibilityQueryRequest/ScanEventCode ContainerVisibilityEntry/ScanEventCode

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