

## Description of 3A8 Message

PIP® 3A8

**Validated 11.02.00**

<b>Specification Information</b>	
<b>Name</b>	Description Of 3A8 Message
<b>PIP</b>	Request Purchase Order Change
<b>Cluster</b>	Order Management
<b>Segment</b>	Quote and Order Entry
<b>Publication Date</b>	30 May 2012
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# 1. Document Management

## 1.1 Legal Disclaimer

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## 1.4 Acknowledgments

This document has been prepared by RosettaNet (<http://www.rosettnet.org/>) from requirements gathered during the Milestone Program and in conformance with the methodology.

## 1.5 Related Documents

- Associated PIP Message Schemas (included with PIP Specification only)
- Description of Partner Interface Process for 3A8
- Message Structure

## 1.6 Document Version History

<u>Version</u>	<u>Date</u>	<u>Description</u>
Validated 11.00.00	11 July 2006	Validated Version
Validated 11.01.00	5 February 2010	Validated Version: MCC Program
Validated 11.02.00	30 May 2012	Updated Version

## 1.7 Document Purpose

The purpose of the document is to explain the structure, the association between objects, the content of objects and the definition for single elements to a non-technical audience.



## 2. Interchange Model

### 2.1 PurchaseOrderChangeRequest

#### 2.1.1 Interchange Diagram

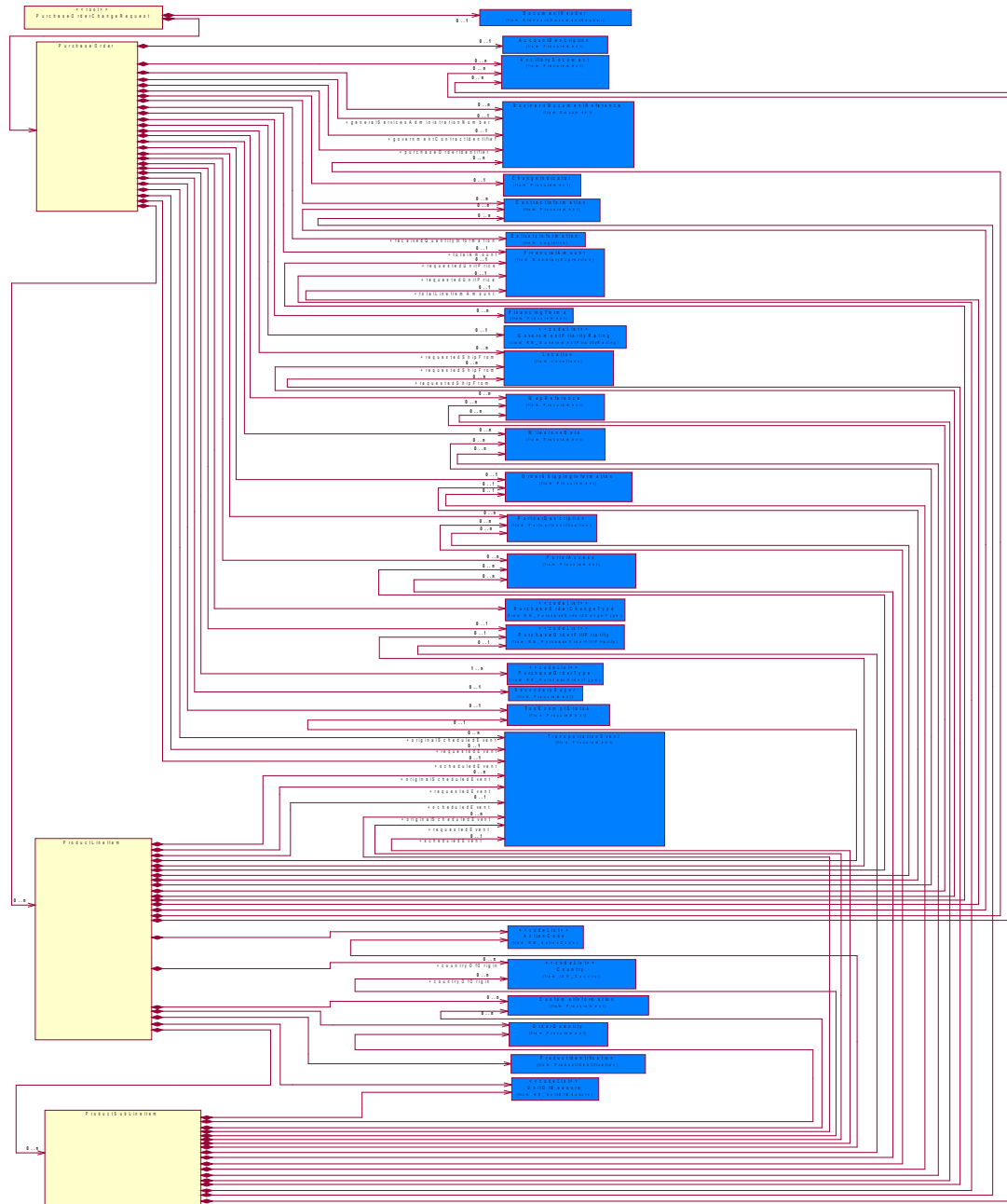
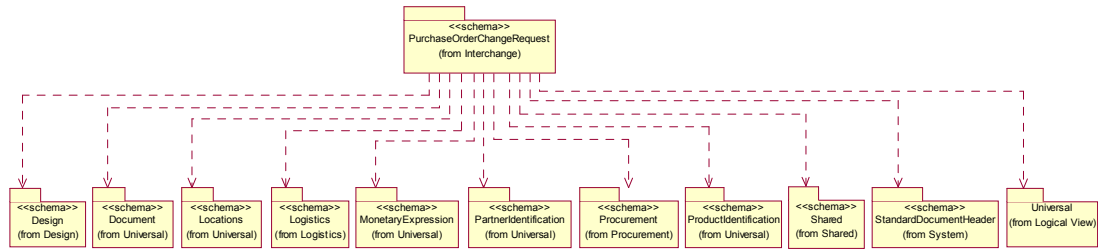


Figure 2-1 Interchange

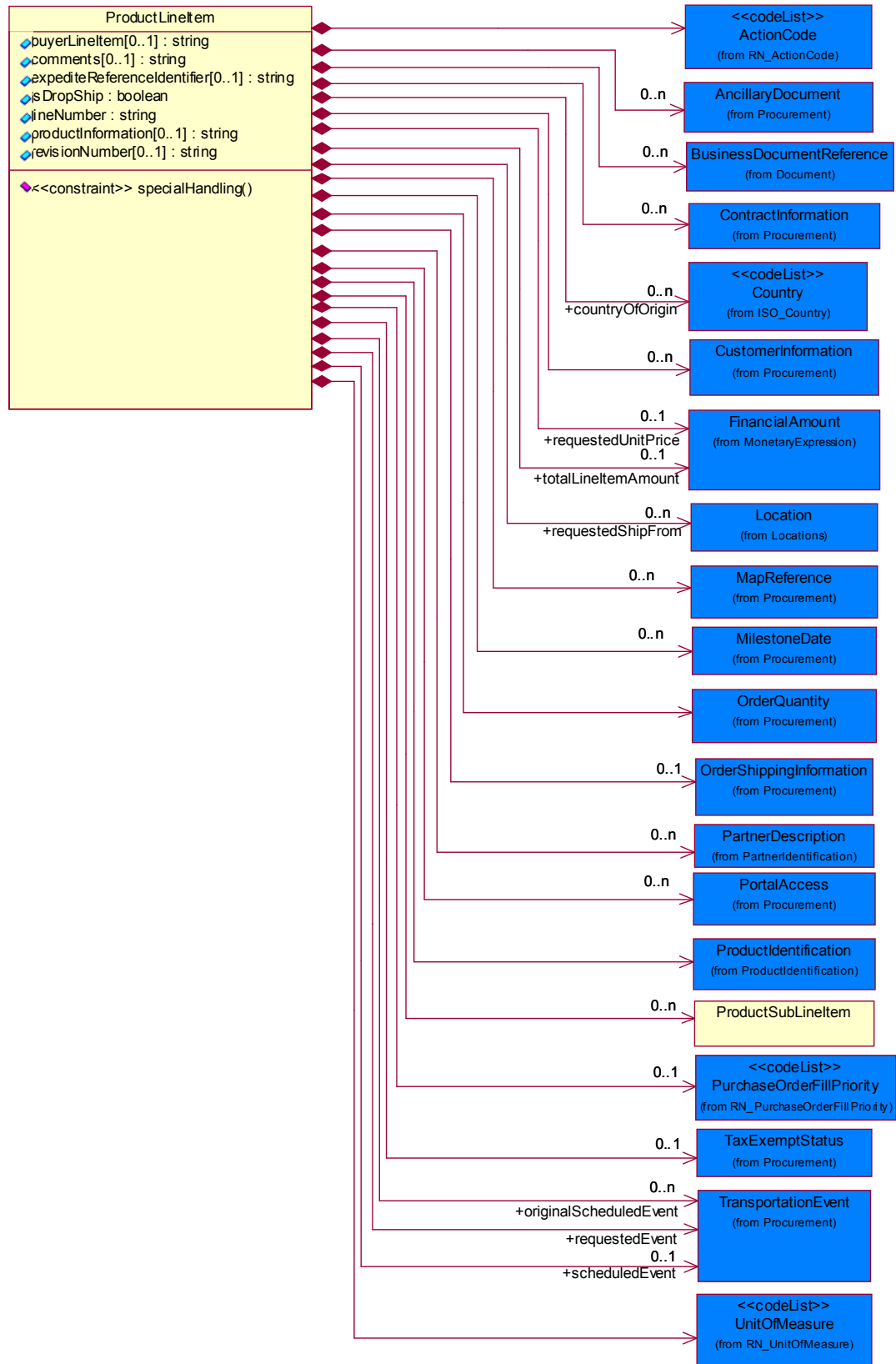
## 2.1.2 Dependency Diagram



**Figure 2-2 Dependency**

## 2.1.3 ProductLineItem

The collection of business properties that describe a business document entry for a product. The Recommended ProcessRoleIdentifier for PartnerDescription are CLF - Collect From, ITL - Install At and SHT - Ship To.



**Figure 2-3 ProductLineItem**

Attribute	Type	Documentation
buyerLineItem[0..1]	string	Line number assigned to an item by the product buyer.
comments[0..1]	string	Textual description of a general nature.
expediteReferenceIdentifier[0..1]	string	The unique identification number for the expediting of a product.
isDropShip	boolean	Indicates whether the order is a drop shipment.
lineNumber	string	Number of line in the document.
productInformation[0..1]	string	A textual description of information, relating to a product.
revisionNumber[0..1]	string	An incremental number used to identify changes.

Composition	Cardinality	Type	Documentation
ContractInformation	0..n	ContractInformation	The collection of business properties that represent a business arrangement for the supply of goods or services at an agreed price.
countryOfOrigin	0..n	Country	Country where product originates.
CustomerInformation	0..n	CustomerInformation	The collection of business properties that describe an end user.
BusinessDocumentReference	0..n	BusinessDocumentReference	The business document reference object allows for the indirect referencing of a relationship to other business related documents.
ActionCode	1	ActionCode	Code identifying the business action that must be performed on or with data. These codes will result in a subsequent action to the Material Composition data.
UnitOfMeasure	1	UnitOfMeasure	Code identifying a product unit of measure.
PurchaseOrderFillPriority	0..1	PurchaseOrderFillPriority	Code identifying fill priority for manufacturing in a constrained condition. Value to be determined by Trading Partner Agreement 1 = highest priority, 5 = medium priority and 9 = lowest priority.

OrderQuantity	1	OrderQuantity	The collection of business properties that describe various types of product quantity used in an ordering process.
OrderShippingInformation	0..1	OrderShippingInformation	The collection of business properties that describe information relating to shipping a product.
originalScheduledEvent	0..n	TransportationEvent	The initial date a transportation event is scheduled to occur.
ProductIdentification	1	ProductIdentification	The object provides the identifier(s) of a product.
ProductSubLineItem	0..n	ProductSubLineItem	The collection of business properties that describe a part of a product line item. The Recommended ProcessRoleIdentifier for PartnerDescription are CLF - Collect From, ITL - Install At, and SHT - Ship To.
requestedShipFrom	0..n	Location	The location where the product is requested to be shipped from.
requestedUnitPrice	0..1	FinancialAmount	The price requested for a unit of product.
scheduledEvent	0..1	TransportationEvent	The date a transportation event is scheduled to occur.
TaxExemptStatus	0..1	TaxExemptStatus	The collection of business properties that describe tax exemption conditions.
totalLineItemAmount	0..1	FinancialAmount	The monetary total associated with a line item.
requestedEvent	1	TransportationEvent	The date a transportation event is requested to occur.
PartnerDescription	0..n	PartnerDescription	The collection of business properties that describe a business partners' identity, their contact information, where they are physically located and their function in a supply chain.
AncillaryDocument	0..n	AncillaryDocument	The collection of business properties that represents name and version of an ancillary document.

MapReference	0..n	MapReference	The collections of business properties that represents the install-at address using either a Global Positioning Satellite reference or national mapping grid reference.
MilestoneDate	0..n	MilestoneDate	The collection of business properties that represents milestone dates within the order fulfilment process.
PortalAccess	0..n	PortalAccess	The collection of business properties that represents access path, for use in downloading ancillary documents from a portal or extranet site.

Constraint	Documentation
specialHandling	At least one occurrence of "dp:OrderShippingInformation/dp:SpecialHandlingInstruction/dp:Text", "dp:OrderShippingInformation/dp:SpecialHandlingInstruction/dsh:SpecialHandling" is required.

### 2.1.4 ProductSubLineItem

The collection of business properties that describe a part of a product line item. The Recommended ProcessRoleIdentifier for PartnerDescription are CLF - Collect From, ITL - Install At, and SHT - Ship To.

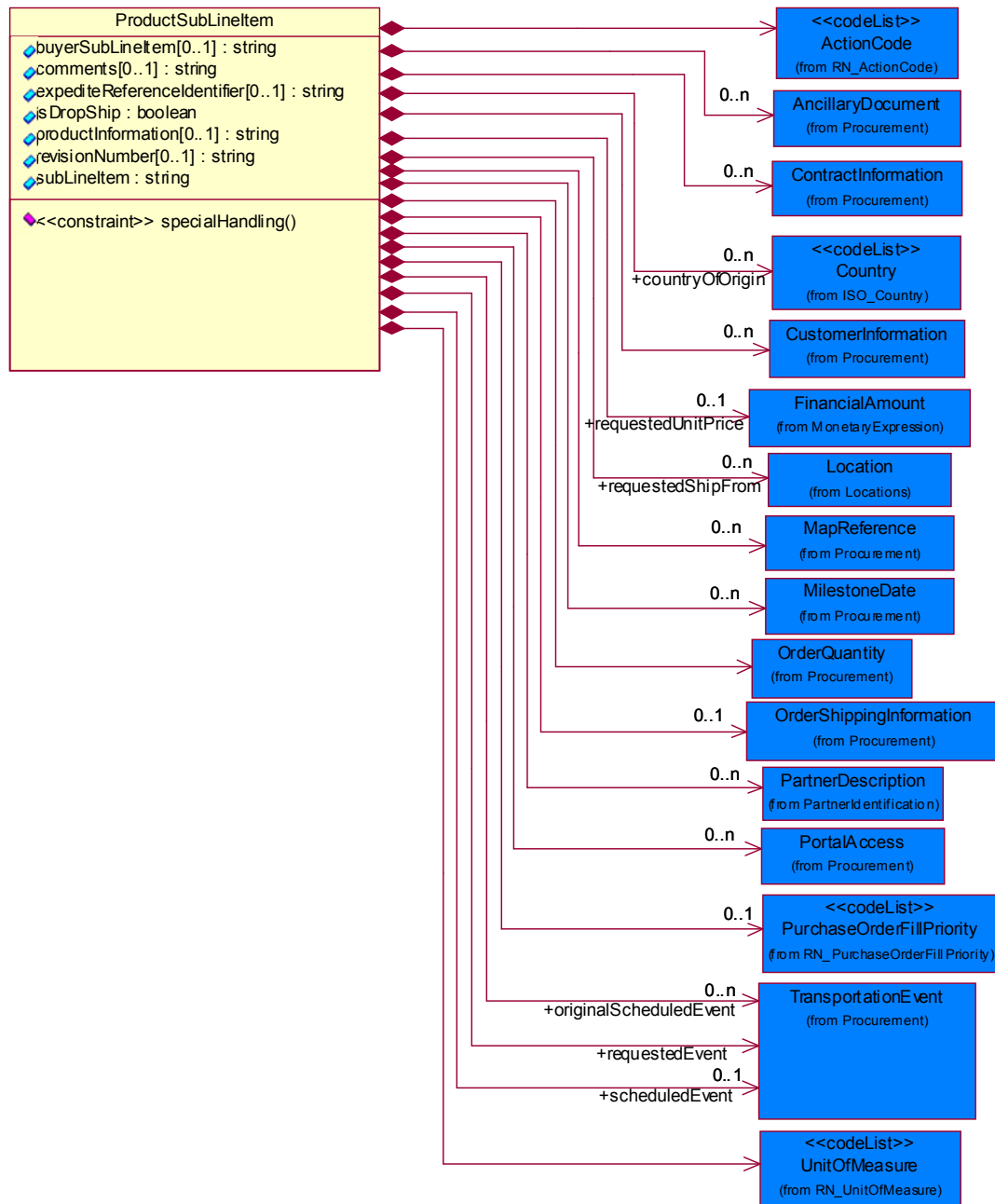


Figure 2-4 ProductSubLineItem

Attribute	Type	Documentation
buyerSubLineItem[0..1]	string	The information related to the original buyer

		submitted document and contained within the subline level.
comments[0..1]	string	Textual description of a general nature.
expediteReferenceIdentifier[0..1]	string	The unique identification number for the expediting of a product.
isDropShip	boolean	Indicates whether the order is a drop shipment.
productInformation[0..1]	string	A textual description of information, relating to a product.
revisionNumber[0..1]	string	An incremental number used to identify changes.
subLineItem	string	Information contained within a subline.

<b>Composition</b>	<b>Cardinality</b>	<b>Type</b>	<b>Documentation</b>
ContractInformation	0..n	ContractInformation	The collection of business properties that represent a business arrangement for the supply of goods or services at an agreed price.
countryOfOrigin	0..n	Country	Country where product originates.
ActionCode	1	ActionCode	Code identifying the business action that must be performed on or with data. These codes will result in a subsequent action to the Material Composition data.
UnitOfMeasure	1	UnitOfMeasure	Code identifying a product unit of measure.
PurchaseOrderFillPriority	0..1	PurchaseOrderFillPriority	Code identifying fill priority for manufacturing in a constrained condition. Value to be determined by Trading Partner Agreement 1 = highest priority, 5 = medium priority and 9 = lowest priority.
OrderQuantity	1	OrderQuantity	The collection of business properties that describe various types of product quantity used in an ordering process.
OrderShippingInformation	0..1	OrderShippingInformation	The collection of business properties that describe information relating to shipping a product.
originalScheduledEvent	0..n	TransportationEvent	The initial date a transportation event is scheduled to occur.



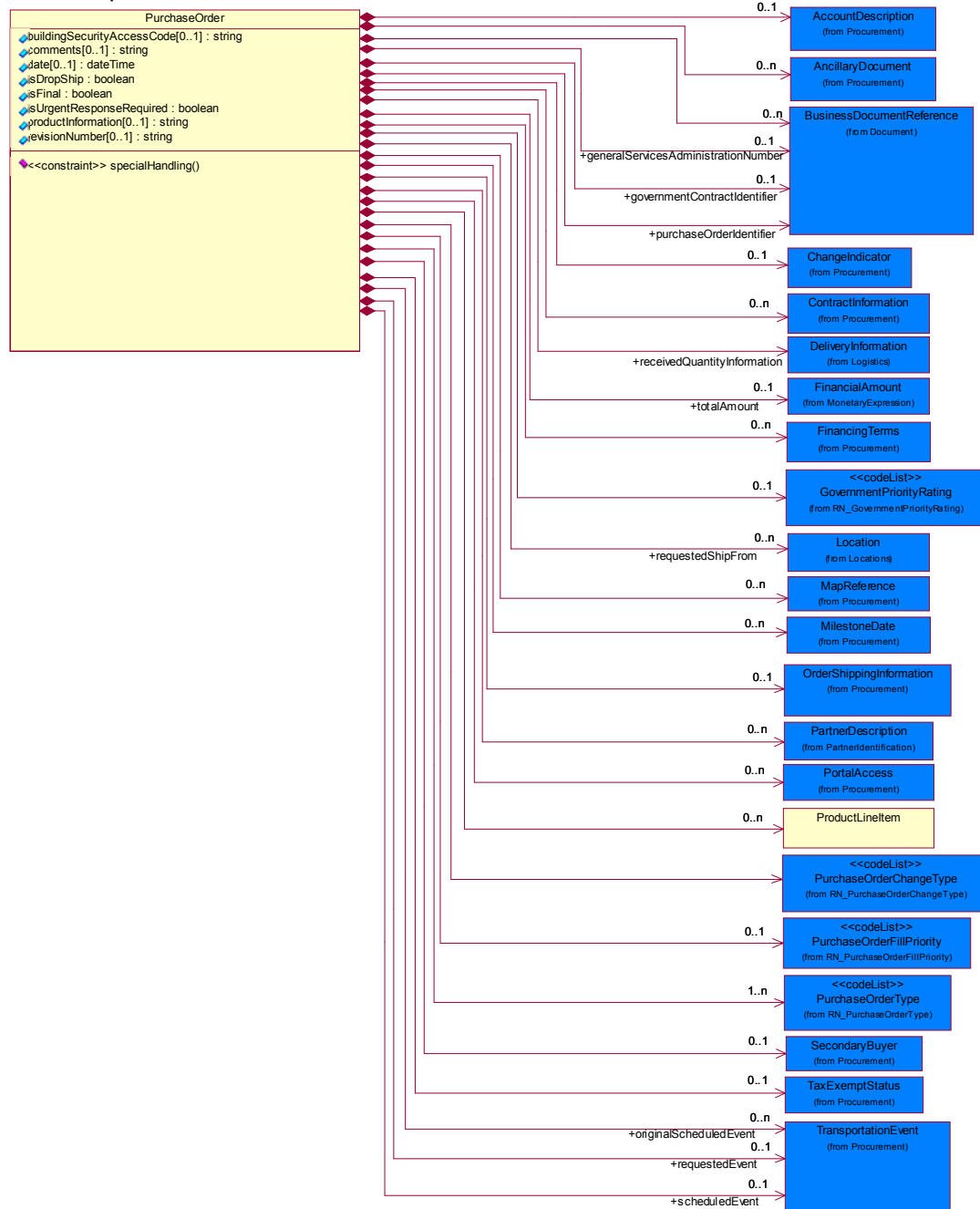
requestedEvent	1	TransportationEvent	The date a transportation event is requested to occur.
requestedShipFrom	0..n	Location	The location where the product is requested to be shipped from.
requestedUnitPrice	0..1	FinancialAmount	The price requested for a unit of product.
scheduledEvent	0..1	TransportationEvent	The date a transportation event is scheduled to occur.
CustomerInformation	0..n	CustomerInformation	The collection of business properties that describe an end user.
AncillaryDocument	0..n	AncillaryDocument	The collection of business properties that represents name and version of an ancillary document.
MapReference	0..n	MapReference	The collections of business properties that represents the install-at address using either a Global Positioning Satellite reference or national mapping grid reference.
MilestoneDate	0..n	MilestoneDate	The collection of business properties that represents milestone dates within the order fulfilment process.
PartnerDescription	0..n	PartnerDescription	The collection of business properties that describe a business partners' identity, their contact information, where they are physically located and their function in a supply chain.
PortalAccess	0..n	PortalAccess	The collection of business properties that represents access path, for use in downloading ancillary documents from a portal or extranet site.

Constraint	Documentation
specialHandling	At least one occurrence of "dp:OrderShippingInformation/dp:SpecialHandlingInstruction/dp:Text", "dp:OrderShippingInformation/dp:SpecialHandlingInstruction/dsh:SpecialHandling" is required.

### 2.1.5 PurchaseOrder

The collection of business properties that describe a buyer's offer to purchase a

quantity of products at an agreed price and schedule. The Recommended ProcessRoleIdentifier for PartnerDescription are CLF - Collect From, ITL - Install At, SHT - Ship To.



**Figure 2-5 PurchaseOrder**

Attribute	Type	Documentation
buildingSecurityAccessCode[0..1]	string	Access code which may be used to gain entry through an automated security system to an

		unmanned site.
comments[0..1]	string	Textual description of a general nature.
date[0..1]	dateTime	The date stamp of a purchase order document.
isDropShip	boolean	Indicates whether the order is a drop shipment.
isFinal	boolean	Indicator to identify a 3A8 message as confirming the final version of the Buyer's Purchase Order which can now be invoiced.
isUrgentResponseRequired	boolean	Indicates an urgent business response is needed from the responding partner.
productInformation[0..1]	string	A textual description of information, relating to a product.
revisionNumber[0..1]	string	An incremental number used to identify changes.

<b>Composition</b>	<b>Cardinality</b>	<b>Type</b>	<b>Documentation</b>
AccountDescription	0..1	AccountDescription	The collection of business properties that describe a customer or supplier account.
ContractInformation	0..n	ContractInformation	The collection of business properties that represent a business arrangement for the supply of goods or services at an agreed price.
BusinessDocumentReference	0..n	BusinessDocumentReference	The business document reference object allows for the indirect referencing of a relationship to other business related documents.
FinancingTerms	0..n	FinancingTerms	The collection of business properties that describe financing terms.
generalServicesAdministrationNumber	0..1	BusinessDocumentReference	Identifying number relating to a pre-established end-user pricing agreement.
GovernmentPriorityRating	0..1	GovernmentPriorityRating	If a contract number exists and PO type is Government, a priority rating code is required.
PurchaseOrderFillPriority	0..1	PurchaseOrderFillPriority	Code identifying fill priority for manufacturing in a constrained condition. Value to be determined by Trading Partner Agreement 1 = highest priority, 5 =

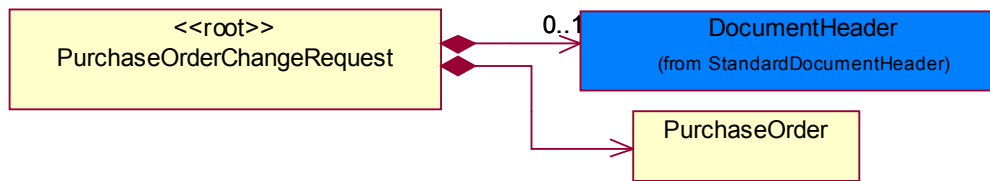
			medium priority and 9 = lowest priority.
PurchaseOrderType	1..n	PurchaseOrderType	Code identifying category specification for a purchase order.
governmentContractIdentifier	0..1	BusinessDocumentReference	The unique number that identifies a government contract.
OrderShippingInformation	0..1	OrderShippingInformation	The collection of business properties that describe information relating to shipping a product.
originalScheduledEvent	0..n	TransportationEvent	The initial date a transportation event is scheduled to occur.
ProductLineItem	0..n	ProductLineItem	The collection of business properties that describe a business document entry for a product. The Recommended ProcessRoleIdentifier for PartnerDescription are CLF - Collect From, ITL - Install At and SHT - Ship To.
purchaseOrderIdentifier	1	BusinessDocumentReference	A code identifying a purchase order.
requestedEvent	0..1	TransportationEvent	The date a transportation event is requested to occur.
requestedShipFrom	0..n	Location	The location where the product is requested to be shipped from.
scheduledEvent	0..1	TransportationEvent	The date a transportation event is scheduled to occur.
TaxExemptStatus	0..1	TaxExemptStatus	The collection of business properties that describe tax exemption conditions.
totalAmount	0..1	FinancialAmount	Total price for an entire business document.
PurchaseOrderChangeType	1	PurchaseOrderChangeType	Code identifying the type of purchase order change requested.
receivedQuantityInformation	1	DeliveryInformation	The collection of business properties that describe information regarding the quantity of the product received.
SecondaryBuyer	0..1	SecondaryBuyer	The collection of business properties that describe an alternate buyer.

AncillaryDocument	0..n	AncillaryDocument	The collection of business properties that represents name and version of an ancillary document.
MapReference	0..n	MapReference	The collections of business properties that represents the install-at address using either a Global Positioning Satellite reference or national mapping grid reference.
MilestoneDate	0..n	MilestoneDate	The collection of business properties that represents milestone dates within the order fulfilment process.
PartnerDescription	0..n	PartnerDescription	The collection of business properties that describe a business partners' identity, their contact information, where they are physically located and their function in a supply chain.
PortalAccess	0..n	PortalAccess	The collection of business properties that represents access path, for use in downloading ancillary documents from a portal or extranet site.
ChangeIndicator	0..1	ChangeIndicator	The collection of business properties that represent whether the change affects the equipment ordered, the overall value of the Purchase Order, the dates for installation work, and the ancillary documents associated with the order. The changes may occur in any combination.

Constraint	Documentation
specialHandling	At least one occurrence of "dp:OrderShippingInformation/dp:SpecialHandlingInstruction/dp:Text", "dp:OrderShippingInformation/dp:SpecialHandlingInstruction/dsh:SpecialHandling" is required.

### 2.1.6 PurchaseOrderChangeRequest

Top level object for a Purchase Order Change Request document.

**Figure 2-6 PurchaseOrderChangeRequest**

Composition	Cardinality	Type	Documentation
DocumentHeader	0..1	DocumentHeader	The object allows for the identification of the sender and receiver of the business document.
PurchaseOrder	1	PurchaseOrder	The collection of business properties that describe a buyer's offer to purchase a quantity of products at an agreed price and schedule. The Recommended ProcessRoleIdentifier for PartnerDescription are CLF - Collect From, ITL - Install At, SHT - Ship To.

## 2.2 PurchaseOrderChangeConfirmation

### 2.2.1 Interchange Diagram

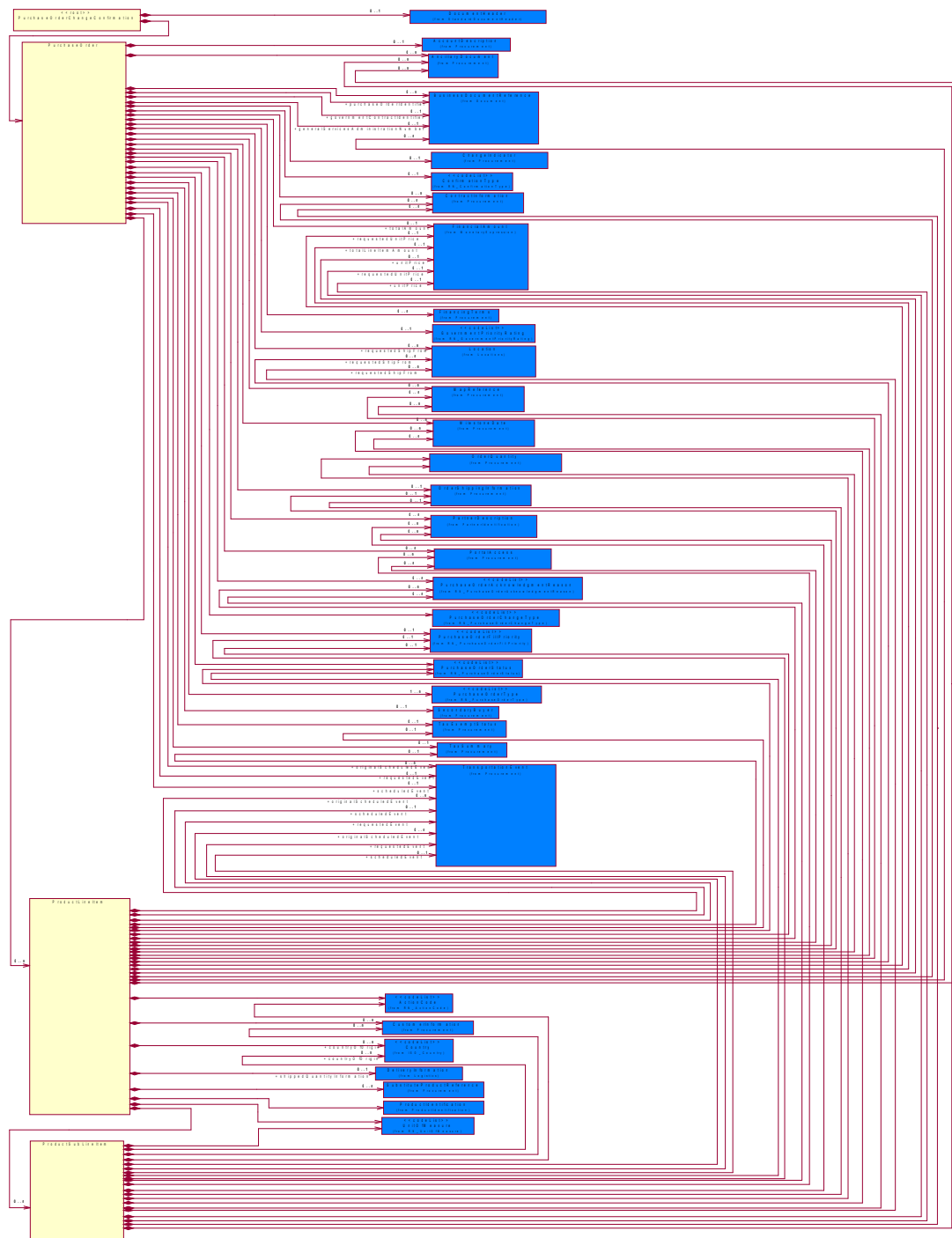
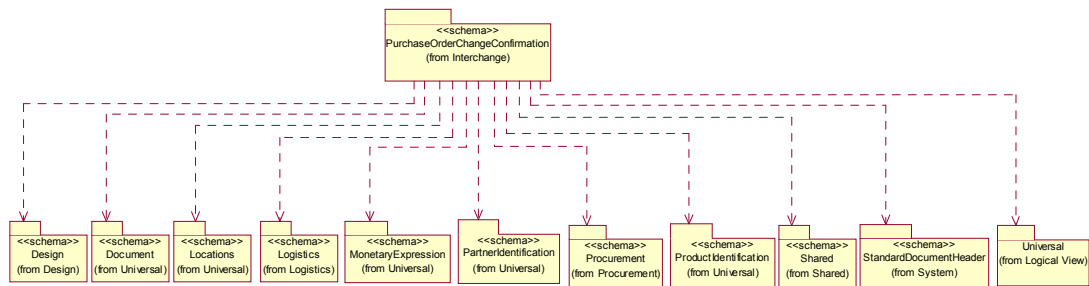


Figure 2-7 Interchange

## 2.2.2 Dependency Diagram



**Figure 2-8 Dependency**

## 2.2.3 ProductLineItem

The collection of business properties that describe a business document entry for a product. The Recommended ProcessRoleIdentifier for PartnerDescription are CLF - Collect From, ITL - Install At, SHF - Ship From and SHT - Ship To.



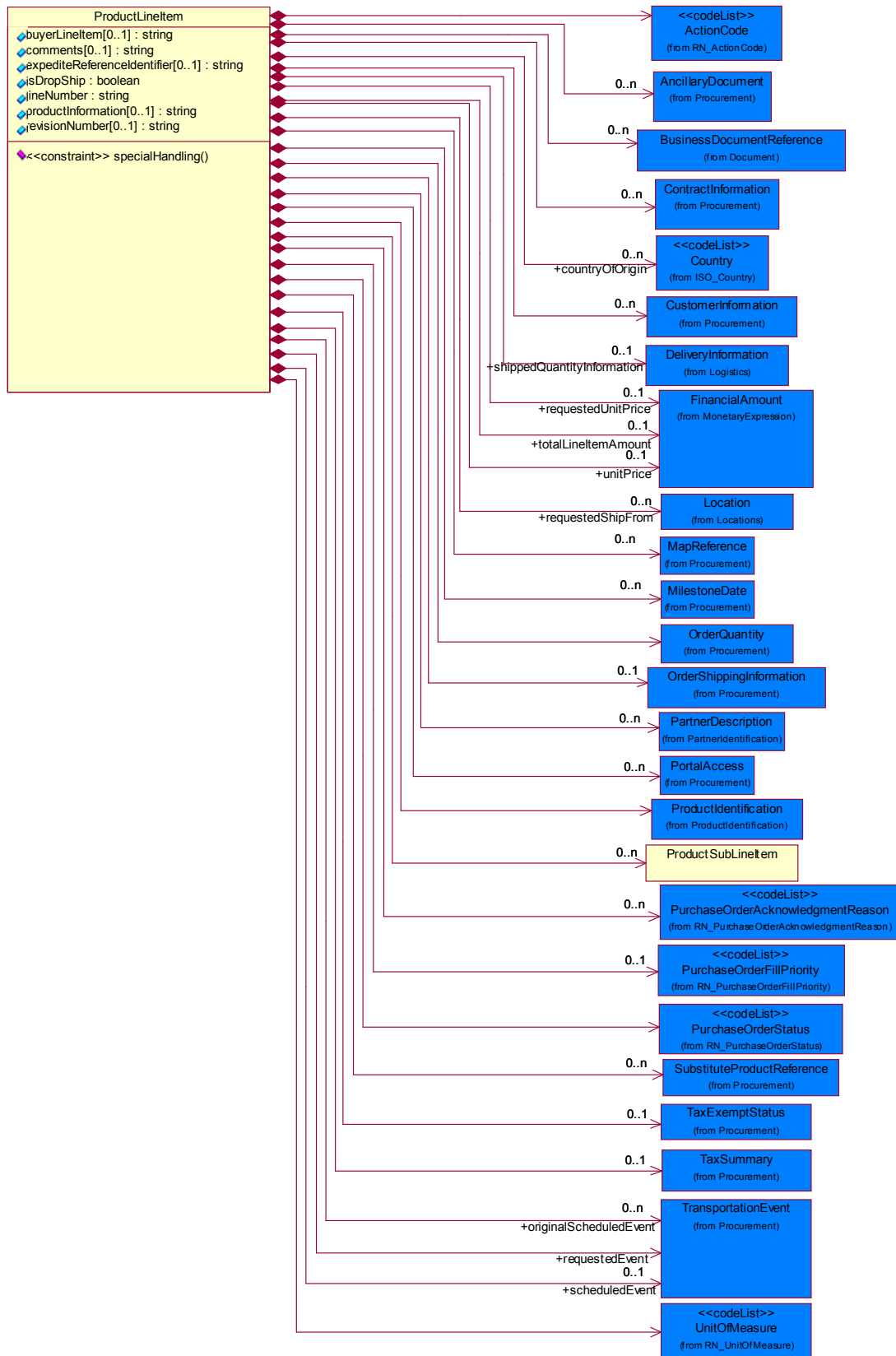


Figure 2-9 ProductLineItem

Attribute	Type	Documentation
buyerLineItem[0..1]	string	Line number assigned to an item by the product buyer.
comments[0..1]	string	Free form textual description of a general nature.
expediteReferenceIdentifier[0..1]	string	The unique identification number for the expediting of a product.
isDropShip	boolean	Indicates whether the order is a drop shipment.
lineNumber	string	Number of the line in the document.
productInformation[0..1]	string	A textual description of information, relating to a product.
revisionNumber[0..1]	string	An incremental number used to identify changes.

Composition	Cardinality	Type	Documentation
ContractInformation	0..n	ContractInformation	The collection of business properties that represent a business arrangement for the supply of goods or services at an agreed price.
countryOfOrigin	0..n	Country	Country where product originates.
CustomerInformation	0..n	CustomerInformation	The collection of business properties that describe an end user.
BusinessDocumentReference	0..n	BusinessDocumentReference	The business document reference object allows for the indirect referencing of a relationship to other business related documents.
ActionCode	1	ActionCode	Code identifying the business action that must be performed on or with data. These codes will result in a subsequent action to the Material Composition data.
UnitOfMeasure	1	UnitOfMeasure	Code identifying a product unit of measure.
PurchaseOrderAcknowledgmentReason	0..n	PurchaseOrderAcknowledgmentReason	The reason for acknowledging a purchase order.
PurchaseOrderFillPriority	0..1	PurchaseOrderFillPriority	Code identifying fill priority for manufacturing in a constrained condition. Value to be determined by Trading

			Partner Agreement 1 = highest priority, 5 = medium priority and 9 = lowest priority.
PurchaseOrderStatus	1	PurchaseOrderStatus	Code identifying the status of a purchase order.
OrderQuantity	1	OrderQuantity	The collection of business properties that describe various types of product quantity used in an ordering process.
OrderShippingInformation	0..1	OrderShippingInformation	The collection of business properties that describe information relating to shipping a product.
originalScheduledEvent	0..n	TransportationEvent	The initial date a transportation event is scheduled to occur.
ProductIdentification	1	ProductIdentification	The object provides the identifier(s) of a product.
ProductSubLineItem	0..n	ProductSubLineItem	The collection of business properties that describe a part of a product line item. The Recommended ProcessRoleIdentifier for PartnerDescription are CLF - Collect From, ITL - Install At, SHF - Ship From and SHT - Ship To.
requestedEvent	1	TransportationEvent	The date a transportation event is requested to occur.
requestedShipFrom	0..n	Location	The location where the product is requested to be shipped from.
requestedUnitPrice	0..1	FinancialAmount	The price requested for a unit of product.
scheduledEvent	0..1	TransportationEvent	The date a transportation event is scheduled to occur.
SubstituteProductReference	0..n	SubstituteProductReference	The collection of business properties describing a product that is being substituted for a requested product.
TaxExemptStatus	0..1	TaxExemptStatus	The collection of business properties that describe tax exemption conditions.
TaxSummary	0..1	TaxSummary	The collection of business properties that describe the total tax information

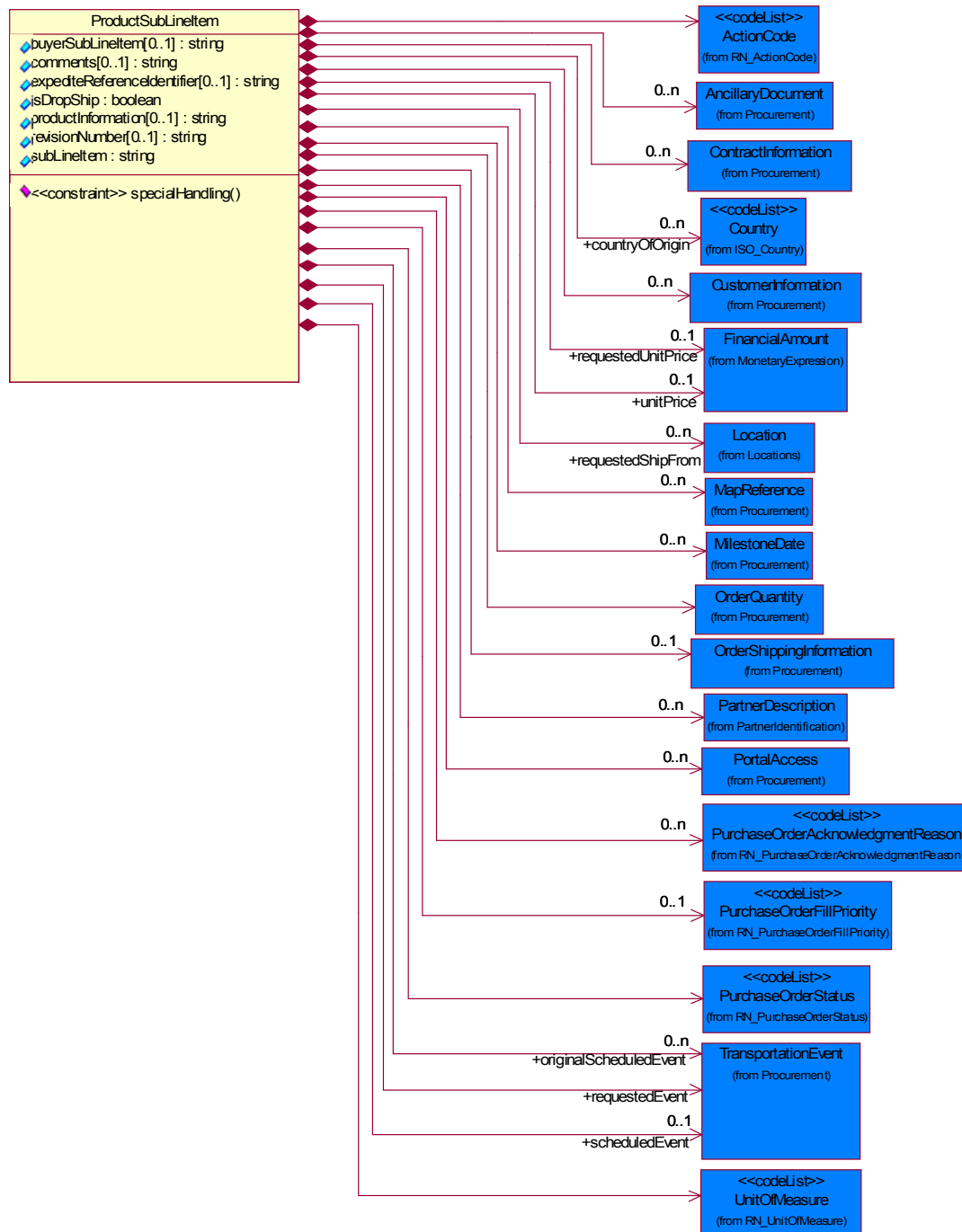
			for a local, regional or national taxing authority.
totalLineItemAmount	0..1	FinancialAmount	The monetary total associated with a line item.
unitPrice	0..1	FinancialAmount	Agreed upon sale price for each unit ordered.
shippedQuantityInformation	0..1	DeliveryInformation	The collection of business properties that describe information regarding the quantity of the product shipped.
AncillaryDocument	0..n	AncillaryDocument	The collection of business properties that represents name and version of an ancillary document.
MapReference	0..n	MapReference	The collections of business properties that represents the install-at address using either a Global Positioning Satellite reference or national mapping grid reference.
MilestoneDate	0..n	MilestoneDate	The collection of business properties that represents milestone dates within the order fulfilment process.
PartnerDescription	0..n	PartnerDescription	The collection of business properties that describe a business partners' identity, their contact information, where they are physically located and their function in a supply chain.
PortalAccess	0..n	PortalAccess	The collection of business properties that represents access path, for use in downloading ancillary documents from a portal or extranet site.

Constraint	Documentation
specialHandling	At least one occurrence of "dp:OrderShippingInformation/dp:SpecialHandlingInstruction/dp:Text", "dp:OrderShippingInformation/dp:SpecialHandlingInstruction/dsh:SpecialHandling" is required.

## 2.2.4 ProductSubLineItem

The collection of business properties that describe a part of a product line item. The

Recommended ProcessRoleIdentifier for PartnerDescription are CLF - Collect From, ITL - Install At, SHF - Ship From and SHT - Ship To.



**Figure 2-10 ProductSubLineItem**

Attribute	Type	Documentation
buyerSubLineItem[0..1]	string	The information related to the original buyer submitted document and contained within

		the subline level.
comments[0..1]	string	Textual description of a general nature.
expediteReferenceIdentifier[0..1]	string	The unique identification number for the expediting of a product.
isDropShip	boolean	Indicates whether the order is a drop shipment.
productInformation[0..1]	string	A textual description of information, relating to a product.
revisionNumber[0..1]	string	An incremental number used to identify changes.
subLineItem	string	Information contained within a subline.

<b>Composition</b>	<b>Cardinality</b>	<b>Type</b>	<b>Documentation</b>
ContractInformation	0..n	ContractInformation	The collection of business properties that represent a business arrangement for the supply of goods or services at an agreed price.
countryOfOrigin	0..n	Country	Country where product originates.
CustomerInformation	0..n	CustomerInformation	The collection of business properties that describe an end user.
ActionCode	1	ActionCode	Code identifying the business action that must be performed on or with data. These codes will result in a subsequent action to the Material Composition data.
UnitOfMeasure	1	UnitOfMeasure	Code identifying a product unit of measure.
PurchaseOrderAcknowledgmentReason	0..n	PurchaseOrderAcknowledgmentReason	The reason for acknowledging a purchase order.
PurchaseOrderFillPriority	0..1	PurchaseOrderFillPriority	Code identifying fill priority for manufacturing in a constrained condition. Value to be determined by Trading Partner Agreement 1 = highest priority, 5 = medium priority and 9 = lowest priority.
PurchaseOrderStatus	1	PurchaseOrderStatus	Code identifying the status of a purchase order.
OrderQuantity	1	OrderQuantity	The collection of business properties that describe various types of product

			quantity used in an ordering process.
OrderShippingInformation	0..1	OrderShippingInformation	The collection of business properties that describe information relating to shipping a product.
originalScheduledEvent	0..n	TransportationEvent	The initial date a transportation event is scheduled to occur.
requestedEvent	1	TransportationEvent	The date a transportation event is requested to occur.
requestedShipFrom	0..n	Location	The location where the product is requested to be shipped from.
requestedUnitPrice	0..1	FinancialAmount	The price requested for a unit of product.
scheduledEvent	0..1	TransportationEvent	The date a transportation event is scheduled to occur.
unitPrice	0..1	FinancialAmount	Agreed upon sale price for each unit ordered.
AncillaryDocument	0..n	AncillaryDocument	The collection of business properties that represents name and version of an ancillary document.
MapReference	0..n	MapReference	The collections of business properties that represents the install-at address using either a Global Positioning Satellite reference or national mapping grid reference.
MilestoneDate	0..n	MilestoneDate	The collection of business properties that represents milestone dates within the order fulfilment process.
PartnerDescription	0..n	PartnerDescription	The collection of business properties that describe a business partners' identity, their contact information, where they are physically located and their function in a supply chain.
PortalAccess	0..n	PortalAccess	The collection of business properties that represents access path, for use in downloading ancillary documents from a portal or extranet site.

Constraint	Documentation
specialHandling	At least one occurrence of "dp:OrderShippingInformation/dp:SpecialHandlingInstruction/dp:Text", "dp:OrderShippingInformation/dp:SpecialHandlingInstruction/dsh:SpecialHandling" is required.

## 2.2.5 PurchaseOrder

The collection of business properties that describe a buyer's offer to purchase a quantity of products at an agreed price and schedule. The Recommended ProcessRoleIdentifier for PartnerDescription are CLF - Collect From, ITL - Install At, SHT - Ship To.

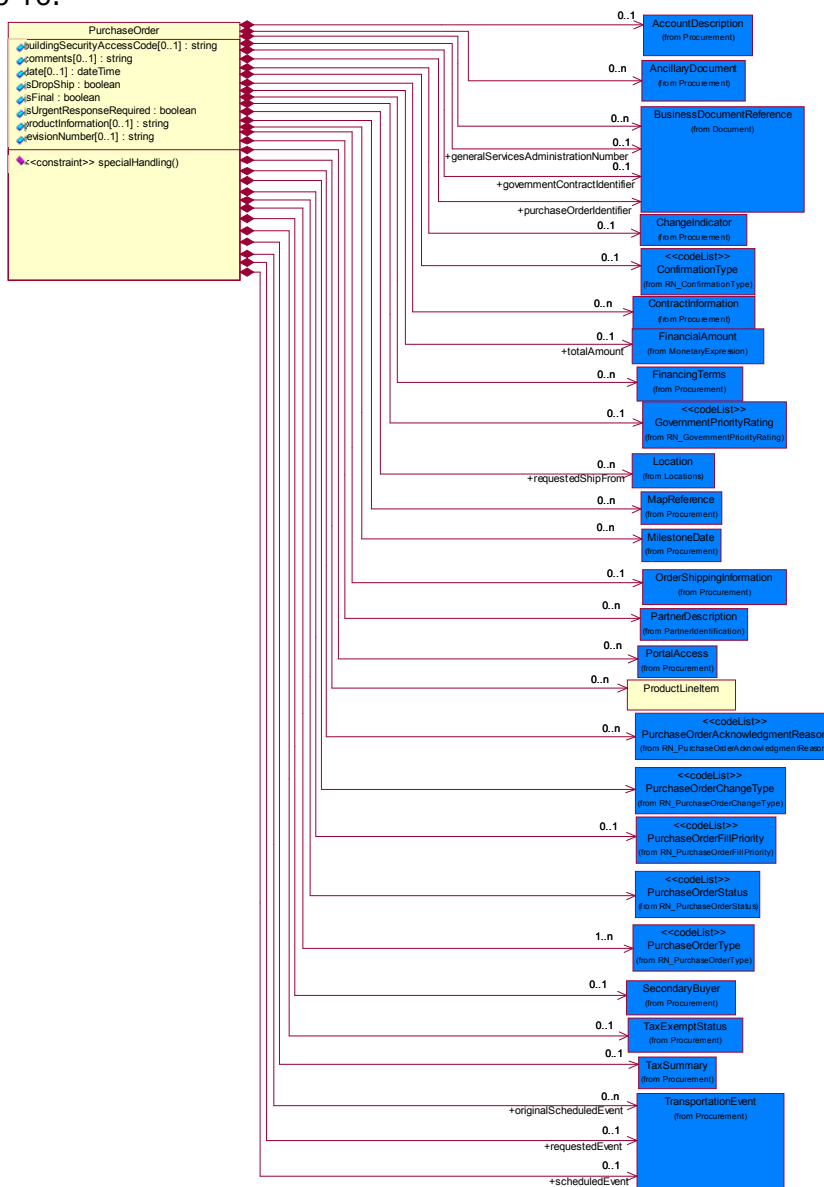


Figure 2-11 PurchaseOrder



Attribute	Type	Documentation
buildingSecurityAccessCode[0..1]	string	Access code which may be used to gain entry through an automated security system to an unmanned site.
comments[0..1]	string	Textual description of a general nature.
date[0..1]	dateTime	The date stamp of a purchase order document.
isDropShip	boolean	Indicates whether the order is a drop shipment.
isFinal	boolean	Indicator to identify a 3A8 message as confirming the final version of the Buyer's Purchase Order which can now be invoiced.
isUrgentResponseRequired	boolean	Indicates an urgent business response is needed from the responding partner.
productInformation[0..1]	string	A textual description of information, relating to a product.
revisionNumber[0..1]	string	An incremental number used to identify changes.

Composition	Cardinality	Type	Documentation
AccountDescription	0..1	AccountDescription	The collection of business properties that describe a customer or supplier account.
ContractInformation	0..n	ContractInformation	The collection of business properties that represent a business arrangement for the supply of goods or services at an agreed price.
BusinessDocumentReference	0..n	BusinessDocumentReference	The business document reference object allows for the indirect referencing of a relationship to other business related documents.
FinancingTerms	0..n	FinancingTerms	The collection of business properties that describe financing terms.
generalServicesAdministrationNumber	0..1	BusinessDocumentReference	Identifying number relating to a pre-established end-user pricing agreement.
ConfirmationType	0..1	ConfirmationType	A code identifying type of exception process in order to enable the back-end integration.
GovernmentPriorityRating	0..1	GovernmentPriorityRating	If a contract number exists and PO type is Government, a priority rating code is required.
PurchaseOrderAck	0..n	PurchaseOrderAckno	The reason for

nowledgmentReason		wledgmentReason	acknowledging a purchase order.
PurchaseOrderFillPriority	0..1	PurchaseOrderFillPriority	Code identifying fill priority for manufacturing in a constrained condition. Value to be determined by Trading Partner Agreement 1 = highest priority, 5 = medium priority and 9 = lowest priority.
PurchaseOrderStatus	1	PurchaseOrderStatus	Code identifying the status of a purchase order.
PurchaseOrderType	1..n	PurchaseOrderType	Code identifying category specification for a purchase order.
governmentContractIdentifier	0..1	BusinessDocumentReference	The unique number that identifies a government contract.
OrderShippingInformation	0..1	OrderShippingInformation	The collection of business properties that describe information relating to shipping a product.
originalScheduledEvent	0..n	TransportationEvent	The initial date a transportation event is scheduled to occur.
ProductLineItem	0..n	ProductLineItem	The collection of business properties that describe a business document entry for a product. The Recommended ProcessRoleIdentifier for PartnerDescription are CLF - Collect From, ITL - Install At, SHF - Ship From and SHT - Ship To.
purchaseOrderIdentifier	1	BusinessDocumentReference	A code identifying a purchase order.
requestedEvent	0..1	TransportationEvent	The date a transportation event is requested to occur.
requestedShipFrom	0..n	Location	The location where the product is requested to be shipped from.
scheduledEvent	0..1	TransportationEvent	The date a transportation event is scheduled to occur.
SecondaryBuyer	0..1	SecondaryBuyer	The collection of business properties that describe an alternate buyer.
TaxExemptStatus	0..1	TaxExemptStatus	The collection of business

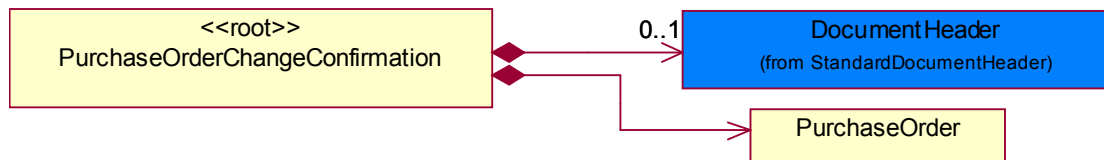
			properties that describe tax exemption conditions.
TaxSummary	0..1	TaxSummary	The collection of business properties that describe the total tax information for a local, regional or national taxing authority.
totalAmount	0..1	FinancialAmount	Total price for an entire business document.
PurchaseOrderChangeType	1	PurchaseOrderChangeType	Code identifying the type of purchase order change requested.
AncillaryDocument	0..n	AncillaryDocument	The collection of business properties that represents name and version of an ancillary document.
MapReference	0..n	MapReference	The collections of business properties that represents the install-at address using either a Global Positioning Satellite reference or national mapping grid reference.
MilestoneDate	0..n	MilestoneDate	The collection of business properties that represents milestone dates within the order fulfilment process.
PartnerDescription	0..n	PartnerDescription	The collection of business properties that describe a business partners' identity, their contact information, where they are physically located and their function in a supply chain.
PortalAccess	0..n	PortalAccess	The collection of business properties that represents access path, for use in downloading ancillary documents from a portal or extranet site.
ChangeIndicator	0..1	ChangeIndicator	The collection of business properties that represent whether the change affects the equipment ordered, the overall value of the Purchase Order, the dates for installation work, and the ancillary documents associated with the order. The changes may occur in any

			combination.
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Constraint	Documentation
specialHandling	At least one occurrence of "dp:OrderShippingInformation/dp:SpecialHandlingInstruction /dp:Text", "dp:OrderShippingInformation/dp:SpecialHandlingInstruction /dsh:SpecialHandling" is required.

## 2.2.6 PurchaseOrderChangeConfirmation

Top level object for a Purchase Order Change Confirmation document.



**Figure 2-12 PurchaseOrderChangeConfirmation**

Composition	Cardinality	Type	Documentation
DocumentHeader	0..1	DocumentHeader	The object allows for the identification of the sender and receiver of the business document.
PurchaseOrder	1	PurchaseOrder	The collection of business properties that describe a buyer's offer to purchase a quantity of products at an agreed price and schedule. The Recommended ProcessRoleIdentifier for PartnerDescription are CLF - Collect From, ITL - Install At, SHT - Ship To.

### 3. Domain ModelLogistics

#### 3.1.1 Logistics

##### 3.1.1.1 Dependency Diagram

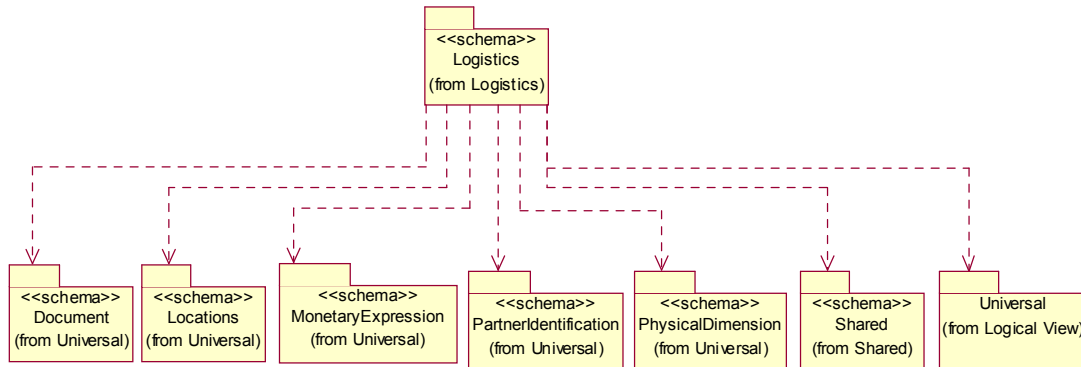


Figure 3-1 Dependency

##### 3.1.1.2 DeliveryInformation

The collection of business properties that describe information regarding the quantity of the product shipped.

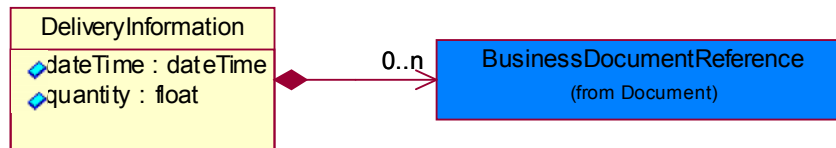


Figure 3-2 DeliveryInformation

Attribute	Type	Documentation
dateTime	dateTime	Specifies an instance in time for the delivery.
quantity	float	The product quantity received.

Composition	Cardinality	Type	Documentation
BusinessDocumentReference	0..n	BusinessDocumentReference	The business document reference object allows for the indirect referencing of a relationship to other business related documents.

## 3.2 Design

### 3.2.1 Design

#### 3.2.1.1 Dependency Diagram

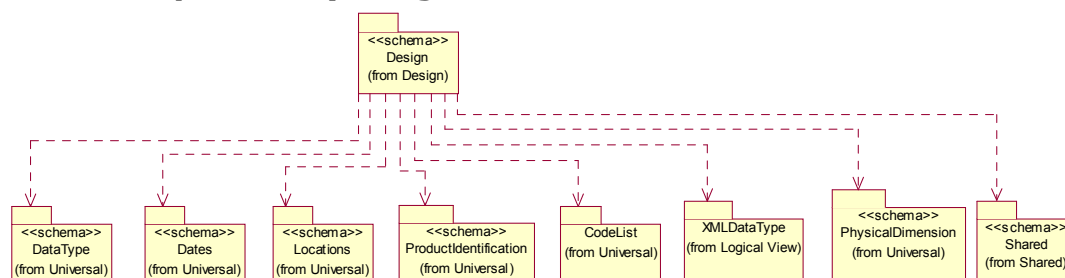


Figure 3-3 Dependency

### 3.2.2 CodeList

#### 3.2.2.1ActionCode

Code identifying the business action that must be performed on or with data. These codes will result in a subsequent action to the Material Composition data.

Name	Documentation
ADD	Add the business information to an information system.
CHG	The change request made accepted.
DEL	Delete the business information from an information system.
REQ	The business information accepted with change.
REV	Revise the business information from an information system.
UCH	Unchanged.

## 3.3 Procurement

### 3.3.1 Procurement

#### 3.3.1.1 Dependency Diagram

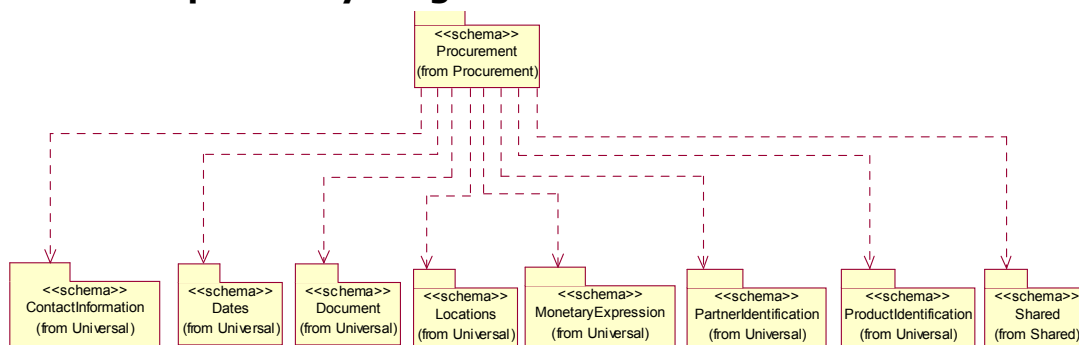
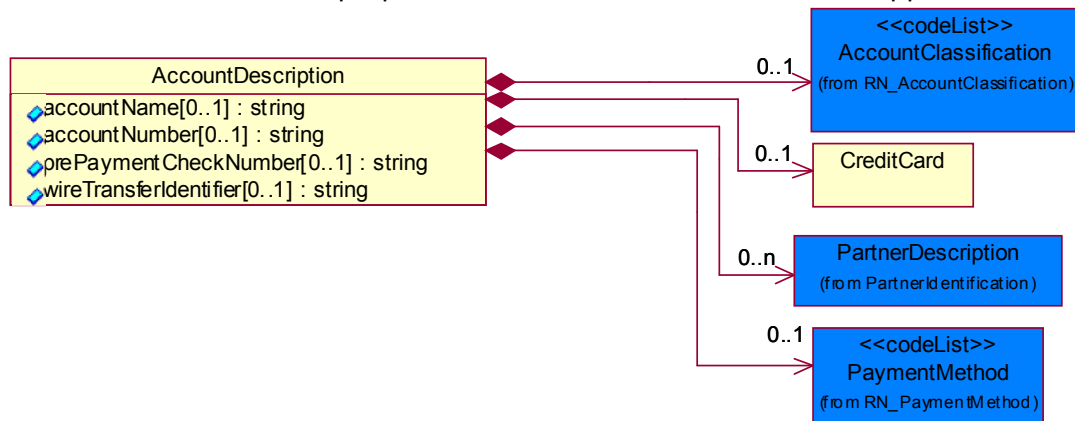


Figure 3-4 Dependency

### 3.3.1.2 AccountDescription

The collection of business properties that describe a customer or supplier account.



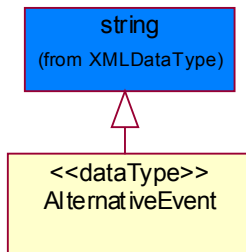
**Figure 3-5 AccountDescription**

Attribute	Type	Documentation
accountName[0..1]	string	The name of a bank account.
accountNumber[0..1]	string	Identification number of an account.
prePaymentCheckNumber[0..1]	string	The check number issued to prepay a monetary amount for an account.
wireTransferIdentifier[0..1]	string	A unique identity of a wire transfer used for reference.

Composition	Cardinality	Type	Documentation
AccountClassification	0..1	AccountClassification	Account classification indicating its functionality, e.g., credit card account, debit card account.
CreditCard	0..1	CreditCard	A collection of business properties that describe information about a credit card.
PartnerDescription	0..n	PartnerDescription	The collection of business properties that describe a business partners' identity, their contact information, where they are physically located and their function in a supply chain.
PaymentMethod	0..1	PaymentMethod	Code identifying how the trading partner paid the seller for the product.

### 3.3.1.3 AlternativeEvent

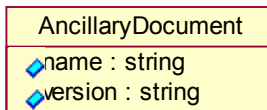
The structure represents proprietary milestone date description, for use by exception if no entry from the Event code list is appropriate.



**Figure 3-6 AlternativeEvent**

### 3.3.1.4 AncillaryDocument

The collection of business properties that represents name and version of an ancillary document.

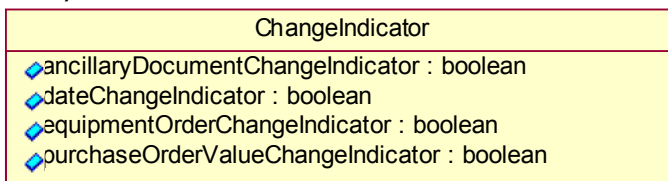


**Figure 3-7 AncillaryDocument**

Attribute	Type	Documentation
name	string	Text field containing the name of each ancillary document associated with the order.
version	string	Text field associated with each document name to identify the version according to a numbering or coding sequence agreeable in the TPA.

### 3.3.1.5 ChangeIndicator

The collection of business properties that represent whether the change affects the equipment ordered, the overall value of the Purchase Order, the dates for installation work, and the ancillary documents associated with the order. The changes may occur in any combination.



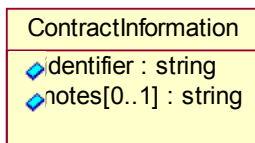
**Figure 3-8 ChangeIndicator**



Attribute	Type	Documentation
ancillaryDocumentChangeIndicator	boolean	Specifies at header level whether any changes have been made to any ancillary document. (It is the responsibility of the trading partners to agree a method of version control, to allow identification of latest version).
dateChangeIndicator	boolean	Specifies whether the Purchase Order Change message contains a change to any date, for routing to the back end project management system.
equipmentOrderChangeIndicator	boolean	Specifies whether the Purchase Order Change message contains a change affecting the purchase of equipment (eg quantity, price etc) for routing to the back end manufacturing system.
purchaseOrderValueChangeIndicator	boolean	Specifies whether the Purchase Order Change message contains a change affecting the overall value of the purchase order (change of price or quantity of either equipment or installation activity) for routing to the back end sales or purchasing system.

### 3.3.1.6 ContractInformation

The collection of business properties that represent a business arrangement for the supply of goods or services at an agreed price.

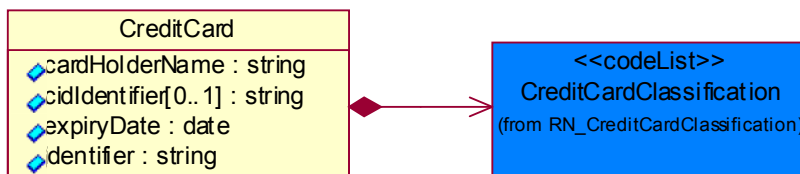


**Figure 3-9 ContractInformation**

Attribute	Type	Documentation
identifier	string	The unique number than identifies a contract.
notes[0..1]	string	A textual description about contract.

### 3.3.1.7 CreditCard

A collection of business properties that describe information about a credit card.



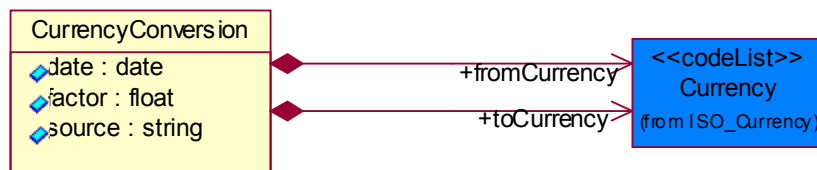
**Figure 3-10 CreditCard**

Attribute	Type	Documentation
cardHolderName	string	The name of the owner of a credit card.
cidIdentifier[0..1]	string	Unique identifier for credit card purchase activity utilized by American Express.
expiryDate	date	The date that a contractual agreement expires.
identifier	string	The unique number that identifies a credit card.

Composition	Cardinality	Type	Documentation
CreditCardClassification	1	CreditCardClassification	Code identifying the type of credit card used.

### 3.3.1.8 CurrencyConversion

The collection of business properties that describe the exchange of money in circulation.



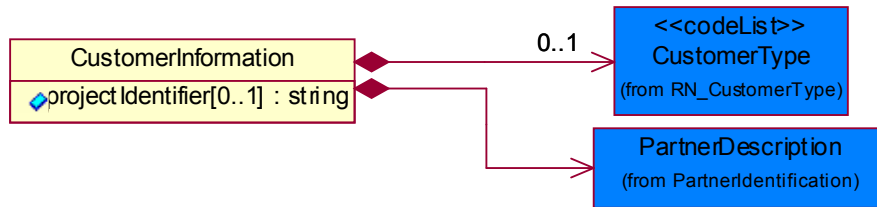
**Figure 3-11 CurrencyConversion**

Attribute	Type	Documentation
date	date	The date of the exchange rate used to convert between currencies.
factor	float	The conversion factor to apply to convert from the currency of the freight charges to the currency used for payment.
source	string	The source of the exchange rate used to convert between currencies.

Composition	Cardinality	Type	Documentation
toCurrency	1	Currency	The currency of the receiving partner in a business transaction.
fromCurrency	1	Currency	The currency of the initiating partner in a business transaction.

### 3.3.1.9 CustomerInformation

The collection of business properties that describe an end user.



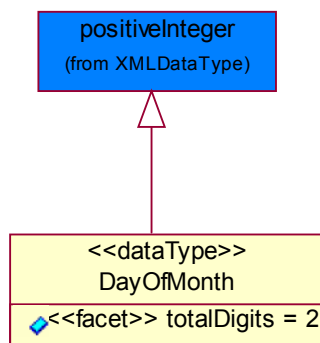
**Figure 3-12 CustomerInformation**

Attribute	Type	Documentation
projectIdentifier[0..1]	string	The unique identification number that identifies a project for a given customer.

Composition	Cardinality	Type	Documentation
CustomerType	0..1	CustomerType	Code identifying the type of end user.
PartnerDescription	1	PartnerDescription	The collection of business properties that describe a business partners' identity, their contact information, where they are physically located and their function in a supply chain.

### 3.3.1.10 DayOfMonth

Specifies a specific day within a month. Value range from 1 to 31.

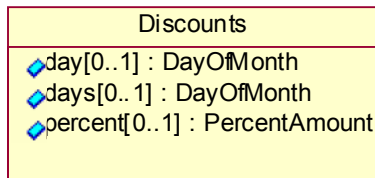


**Figure 3-13 DayOfMonth**

Attribute	Type	Documentation
totalDigits		Value with specific maximum number of decimal digits. For more information, see the W3C XML Schema Part 2: Datatypes Recommendation at <a href="http://www.w3.org/TR/2001/REC-xmlschema-2-20010502/#element-totalDigits">http://www.w3.org/TR/2001/REC-xmlschema-2-20010502/#element-totalDigits</a> .

### 3.3.1.11 Discounts

The collection of business properties that describe payment discounts.

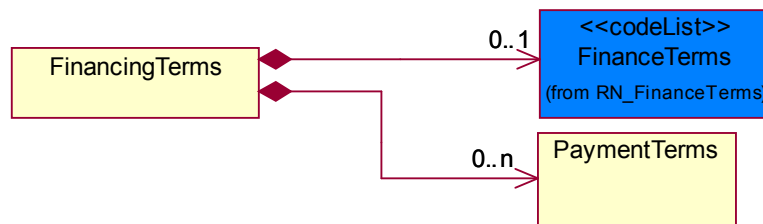


**Figure 3-14 Discounts**

Attribute	Type	Documentation
day[0..1]	DayOfMonth	The specific day of the month a payment is required in order to receive a discount.
days[0..1]	DayOfMonth	The number of days within which a payment is required in order to receive a discount.
percent[0..1]	PercentAmount	The financial percent representing a reduction to the total amount due.

### 3.3.1.12 FinancingTerms

The collection of business properties that describe financing terms.

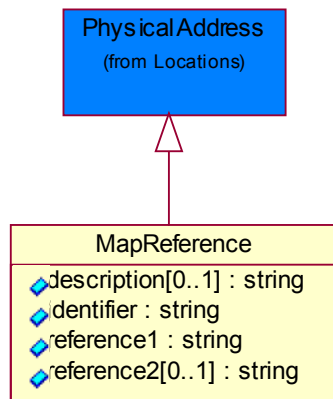


**Figure 3-15 FinancingTerms**

Composition	Cardinality	Type	Documentation
FinanceTerms	0..1	FinanceTerms	Code identifying the terms that govern financing.
PaymentTerms	0..n	PaymentTerms	The collection of business properties that describe payment terms.

### 3.3.1.13 MapReference

The collections of business properties that represents the install-at address using either a Global Positioning Satellite reference or national mapping grid reference.

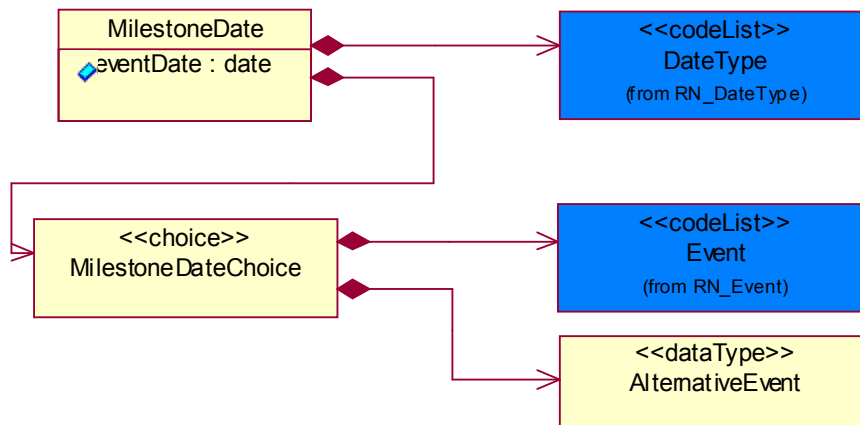


**Figure 3-16 MapReference**

Attribute	Type	Documentation
description[0..1]	string	Describe the map reference for the installation work that has a distinct start and end point which are separated by a significant distance.
identifier	string	Identifier which specifies whether the reference is a GPS reference or a map grid reference.
reference1	string	Complete map reference in one string (eg. 2 Letter Code + Longitude + Latitude).
reference2[0..1]	string	Additional map reference.

### 3.3.1.14 MilestoneDate

The collection of business properties that represents milestone dates within the order fulfilment process.



**Figure 3-17 MilestoneDate**

Attribute	Type	Documentation
eventDate	date	Milestone date.

Composition	Cardinality	Type	Documentation
DateType	1	DateType	Identifier which occurs with each milestone date to indicate whether the date is Planned, Forecast or Actual.
MilestoneDateChoice	1	MilestoneDateChoice	The choice structure to use Event codelist or AlternativeEvent datatype.

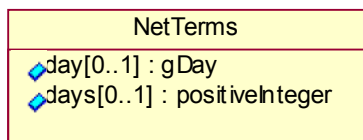
### 3.3.1.15 MilestoneDateChoice

The choice structure to use Event codelist or AlternativeEvent datatype.

Composition	Cardinality	Type	Documentation
Event	1	Event	Possible milestone dates within the life of an installation project. For example: Site Inspection Date; Earliest Start Date and etc.
AlternativeEvent	1	AlternativeEvent	The structure represents proprietary milestone date description, for use by exception if no entry from the Event code list is appropriate.

### 3.3.1.16 NetTerms

The collection of business properties that describe net payment due terms.

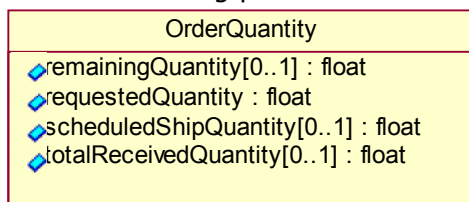


**Figure 3-18 NetTerms**

Attribute	Type	Documentation
day[0..1]	gDay	The specific day of the month a payment is due without incurring late charges.
days[0..1]	positiveInteger	The number of days within which a payment is due without incurring late charges.

### 3.3.1.17 OrderQuantity

The collection of business properties that describe various types of product quantity used in an ordering process.

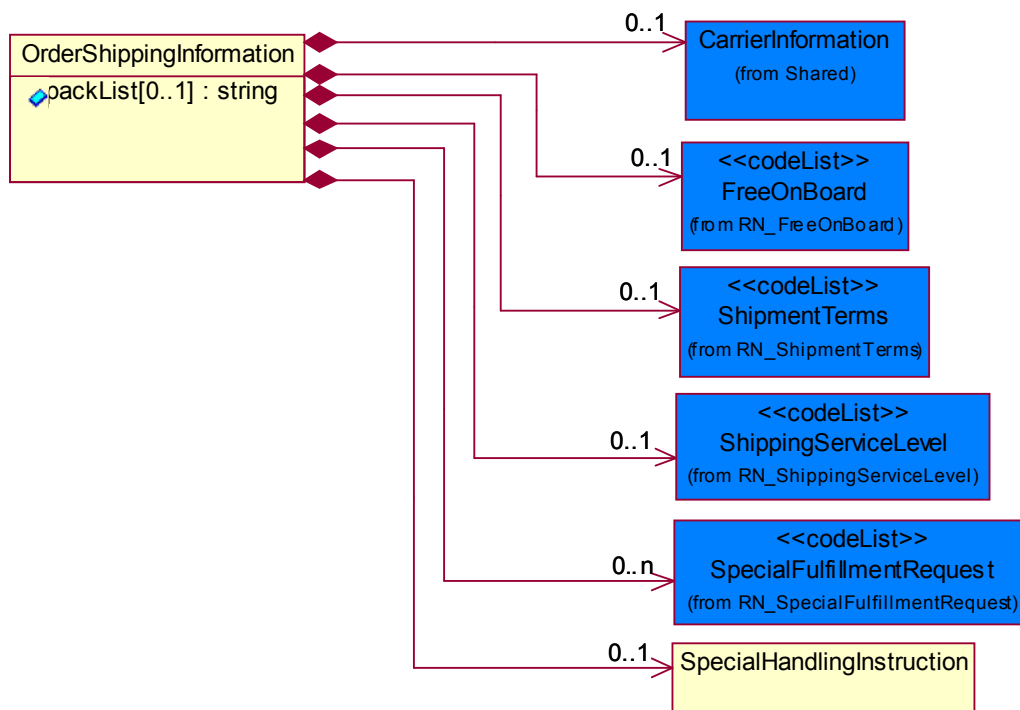


**Figure 3-19 OrderQuantity**

Attribute	Type	Documentation
remainingQuantity[0..1]	float	The quantity of product still remaining to be delivered.
requestedQuantity	float	The quantity of product requested.
scheduledShipQuantity[0..1]	float	Quantity of product shipped currently scheduled for shipment.
totalReceivedQuantity[0..1]	float	The total quantity of product received.

### 3.3.1.18 OrderShippingInformation

The collection of business properties that describe information relating to shipping a product.



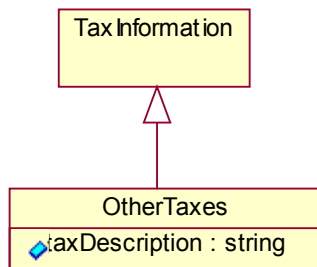
**Figure 3-20 OrderShippingInformation**

Attribute	Type	Documentation
packList[0..1]	string	Free form textual description, on the pack list, of requirements relating to the packing of the product.

Composition	Cardinality	Type	Documentation
SpecialFulfillmentRequest	0..n	SpecialFulfillmentRequest	Code identifying a special fulfillment request, e.g. delivery options.
SpecialHandlingInstruction	0..1	SpecialHandlingInstruction	The collection of business properties that describe product packaging or shipping handling instructions.
ShipmentTerms	0..1	ShipmentTerms	Code identifying the terms under which a product is shipped.
CarrierInformation	0..1	CarrierInformation	The collection of business properties that describe a carrier's identification.
FreeOnBoard	0..1	FreeOnBoard	Code identifying a specified point where a product is delivered or placed on board a carrier without charge.
ShippingServiceLevel	0..1	ShippingServiceLevel	Code identifying the shipping service level, e.g., overnight, same day.

### 3.3.1.19 OtherTaxes

The collection of business properties that describe other tax information.



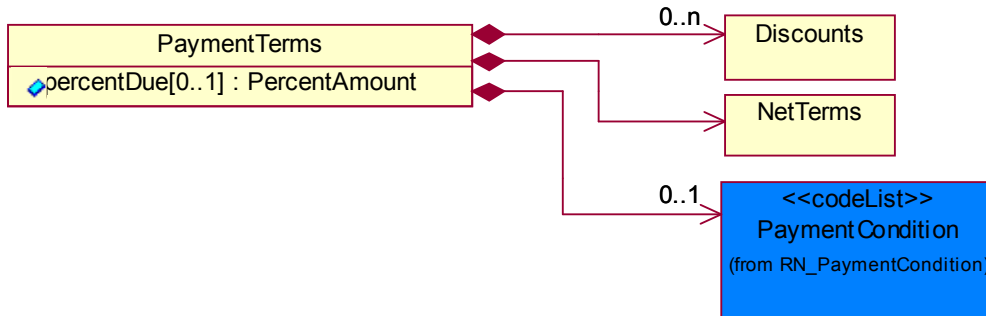
**Figure 3-21 OtherTaxes**

Attribute	Type	Documentation
taxDescription	string	Describe different kind of taxes, such as goods and services tax, special release tax.



### 3.3.1.20 PaymentTerms

The collection of business properties that describe payment terms.



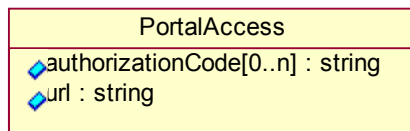
**Figure 3-22 PaymentTerms**

Attribute	Type	Documentation
percentDue[0..1]	PercentAmount	The amount owed expressed as a percentage.

Composition	Cardinality	Type	Documentation
PaymentCondition	0..1	PaymentCondition	A code identifying the conditions under which payment will be made.
Discounts	0..n	Discounts	The collection of business properties that describe payment discounts.
NetTerms	1	NetTerms	The collection of business properties that describe net payment due terms.

### 3.3.1.21 PortalAccess

The collection of business properties that represents access path, for use in downloading ancillary documents from a portal or extranet site.

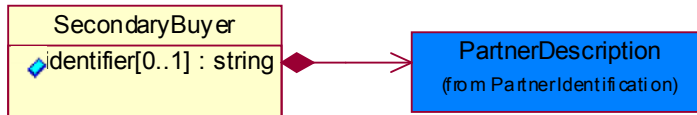


**Figure 3-23 PortalAccess**

Attribute	Type	Documentation
authorizationCode[0..n]	string	Authorization code to portal or extranet where multiple occurrences containing access codes such as passwords, PIN numbers etc.
url	string	Hyperlink reference to portal or extranet where ancillary documents can be downloaded.

### 3.3.1.22 SecondaryBuyer

The collection of business properties that describe an alternate buyer.



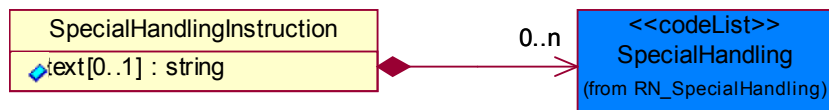
**Figure 3-24 SecondaryBuyer**

Attribute	Type	Documentation
identifier[0..1]	string	Unique number that identifies a purchase order issued by the secondary buyer.

Composition	Cardinality	Type	Documentation
PartnerDescription	1	PartnerDescription	The collection of business properties that describe a business partners' identity, their contact information, where they are physically located and their function in a supply chain.

### 3.3.1.23 SpecialHandlingInstruction

The collection of business properties that describe product packaging or shipping handling instructions.



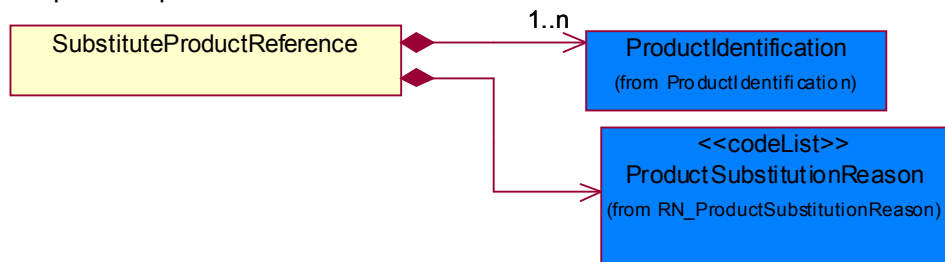
**Figure 3-25 SpecialHandlingInstruction**

Attribute	Type	Documentation
text[0..1]	string	Free form textual description for how specified goods, packages or containers should be handled.

Composition	Cardinality	Type	Documentation
SpecialHandling	0..n	SpecialHandling	Code identifying special handling or packaging requirements for the product.

### 3.3.1.24 SubstituteProductReference

The collection of business properties describing a product that is being substituted for a requested product.

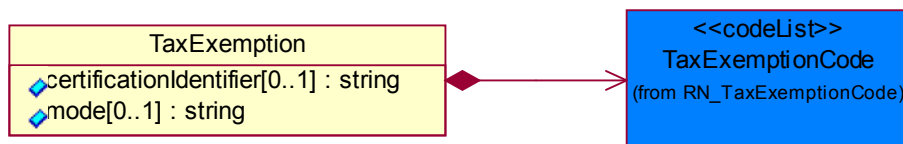


**Figure 3-26 SubstituteProductReference**

Composition	Cardinality	Type	Documentation
ProductSubstitutionReason	1	ProductSubstitutionReason	A code identifying the reason a product is substituted for the original product requested.
ProductIdentification	1..n	ProductIdentification	The object provides the identifier(s) of a product.

### 3.3.1.25 TaxExemption

The collection of business properties that describe tax exemption type and identification information.



**Figure 3-27 TaxExemption**

Attribute	Type	Documentation
certificationIdentifier[0..1]	string	The unique identifier that represents the authorization for a product or service's tax exempt status.
mode[0..1]	string	This object referring to the tax exemption mode by Customs against goods declared eg. duty free, partial tax exemption or full tax exemption.

Composition	Cardinality	Type	Documentation
TaxExemptionCode	1	TaxExemptionCode	Code identifying the type of tax exemption for a product or service.

### 3.3.1.26 TaxExemptStatus

The collection of business properties that describe tax exemption conditions.



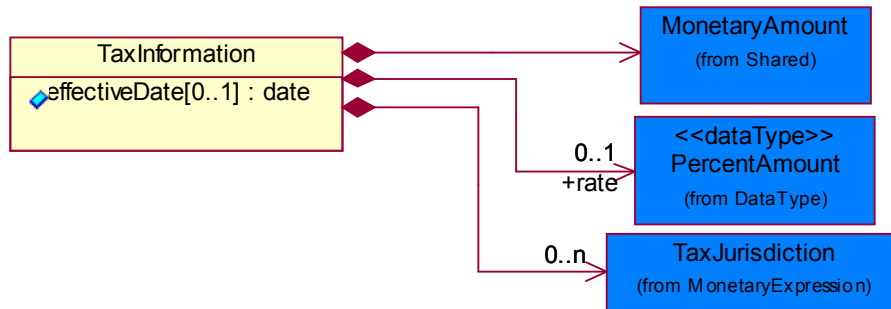
**Figure 3-28 TaxExemptStatus**

Attribute	Type	Documentation
isTaxExempt	boolean	Indicates whether a product is exempt from taxation.

Composition	Cardinality	Type	Documentation
TaxExemption	0..1	TaxExemption	The collection of business properties that describe tax exemption type and identification information.

### 3.3.1.27 TaxInformation

The collection of business properties that describe tax information.





**Figure 3-29 TaxInformation**

Attribute	Type	Documentation
effectiveDate[0..1]	date	The date tax become effective or applicable.

Composition	Cardinality	Type	Documentation
TaxJurisdiction	0..n	TaxJurisdiction	The business document must identify the specific tax collection authority.
rate	0..1	PercentAmount	The rate used to calculate tax liability.
MonetaryAmount	1	MonetaryAmount	The collection of business properties that describe the monetary amount defined by a specified currency.

### 3.3.1.28 TaxPhrase

The collection of business properties that describe VAT specific information.

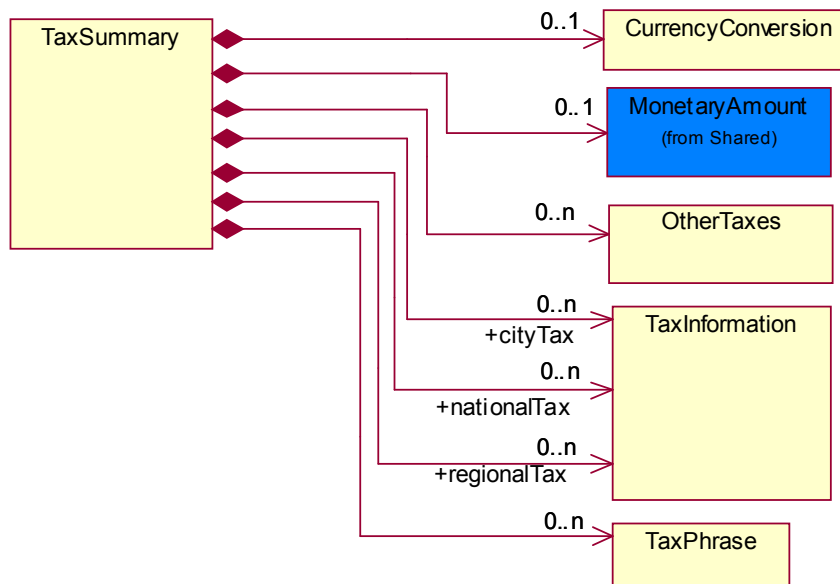
TaxPhrase
 sTaxTriangulationApplicable : boolean
 phrase : string

**Figure 3-30 TaxPhrase**

Attribute	Type	Documentation
isTaxTriangulationApplicable	boolean	Indicates whether intermediate suppliers in a triangulation chain may be able to use a simplified procedure available throughout the EC. Triangulation is a name for a type of transaction that can apply only to EU VAT registered companies dispatching goods to countries within the EU.
phrase	string	Country or territory specific tax qualifier verbiage as and when required for tax audit purposes. Such verbiage should be transmitted and stored with the invoice, and may be required to be in local language. Trading Partners are responsible for ensuring that appropriate verbiage is included as per individual tax authority requirements.

### 3.3.1.29 TaxSummary

The collection of business properties that describe the total tax information for a local, regional or national taxing authority.

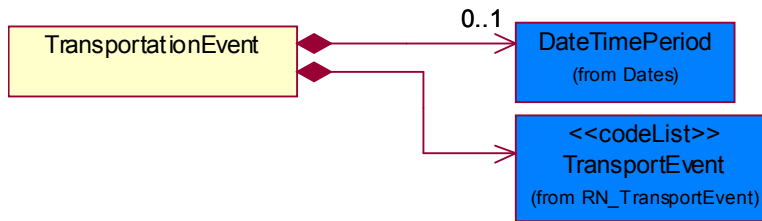


**Figure 3-31 TaxSummary**

Composition	Cardinality	Type	Documentation
CurrencyConversion	0..1	CurrencyConversion	The collection of business properties that describe the exchange of money in circulation.
TaxPhrase	0..n	TaxPhrase	The collection of business properties that describe VAT specific information.
cityTax	0..n	TaxInformation	The collection of business properties that describe tax information for the city levying the tax.
nationalTax	0..n	TaxInformation	The collection of business properties that describe tax information for the country levying the tax.
regionalTax	0..n	TaxInformation	The collection of business properties that describe tax information for the region levying the tax.
MonetaryAmount	0..1	MonetaryAmount	The collection of business properties that describe the monetary amount defined by a specified currency.
OtherTaxes	0..n	OtherTaxes	The collection of business properties that describe other tax information.

### 3.3.1.30 TransportationEvent

The collection of business properties that describe the occurrence of the public conveyance of goods as a commercial enterprise.



**Figure 3-32 TransportationEvent**

Composition	Cardinality	Type	Documentation
TransportEvent	1	TransportEvent	Code identifying an event during the transportation of a shipment.
DateTimePeriod	0..1	DateTimePeriod	The business document must allow for the computation or statement of a period of time based upon date and time.

## 3.3.2 CodeList

### 3.3.2.1 TransportEvent

Code identifying an event during the transportation of a shipment.

Name	Documentation
DOC	Dock.
PIC	Pickup.
SHP	Ship.

### 3.3.2.2 FinanceTerms

Code identifying the terms that govern financing.

Name	Documentation
BDO	Basic Discount Offered.
BNK	Bank transfer.
CDC	Credit card.
CSM	Consignment.
EPS	Electronic Payment System.
IKP	In Kind Payment.
LOC	Letter of Credit.
LSA	Lease agreement.
MDT	Mutually defined/determined by TPA.
NMI	Net month following invoice.
PBC	Pay by Check.

PCC	Prepay Credit Card.
PPC	Prepay check.
PPW	Prepay wire.
PVC	Previously charged.
PVN	Private netting.
TET	Terms established/determined by TPA.
WRT	Wire transfer.
WVD	Waived.

### 3.3.2.3 CreditCardClassification

Code identifying the type of credit card used.

Name	Documentation
AMX	American express.
DIS	Discover.
EUC	EuroCard.
JCU	Japanese Credit Union.
MAC	Master card.
PRO	Procurement.
VIS	Visa.

### 3.3.2.4 AccountClassification

Account classification indicating its functionality, e.g., credit card account, debit card account.

Name	Documentation
CHK	Checking.
CRC	Credit Card.
SAV	Savings.

### 3.3.2.5 PaymentCondition

A code identifying the conditions under which payment will be made.

Name	Documentation
ACC	Acceptance - Acceptance by buyer of tool/machine to be in working order per spec/contract.
CON	Consumption.
REG	Receipt of Goods.
REI	Receipt of Invoice.
SHI	Shipment.



### 3.3.2.6 ConfirmationType

A code identifying type of exception process in order to enable the back-end integration.

Name	Documentation
AMC	Accept with Multiple Changes.
ANC	Accept with No Change.
APC	Accept with Price Change.
APS	Accept with Product Substitution.
ASC	Accept with delivery schedule change.

### 3.3.2.7 GovernmentPriorityRating

If a contract number exists and PO type is Government, a priority rating code is required.

Name	Documentation
ATE	Atomic energy.
DEF	Defense.
DOE	Domestic energy.
ENP	Energy and related programs.
OTH	Other Defense.

### 3.3.2.8 PurchaseOrderStatus

Code identifying the status of a purchase order.

Name	Documentation
ACC	Accept.
CAN	Cancel.
COM	Complete.
FCL	Finally Closed - Cannot be opened any further updates.
NEW	New - Initial state or and has not been amended yet.
PAR	Partial.
PEN	Pending.
REJ	Reject.
UPD	Update - Open and amended.

### 3.3.2.9 PurchaseOrderType

Code identifying category specification for a purchase order.

Name	Documentation
ADD	Order for adding product/service to existing contract.
BLA	Blanket - Order quantity for blanket type purchase order is understood to be a blanket quantity maximum.
CCO	Order for contract changes - This order will change the contract.
COO	Consigned Order.
DCO	Order for downgrading contract - This order will downgrade the contract.
DNS	Do Not Ship/invoice only.
DSO	Direct Sales Order.
ERS	ERS, Self Billing Invoice (SBI).
ESD	ESD.
EVA	Evaluation.
EXO	Exchange Order, PO generated to exchange a product that is not related to Warranty Replacement.
FUL	Fulfillment.
GOV	Government.
MSCP	Order handled via Managed Service Channel.
NCO	Order for new contract - This order will initiate a new contract.
NON	Non-cancelable/non-returnable.
PAP	Packaged Product.
PRD	Production, for mass production wafer.
QUO	Quote to order.
RCO	Order for contract renewal - This order will renew the contract.
REP	Repair.
RPD	Risk Production, before the yield is qualified, the buyer requests the wafer manufacturer to produce the wafer according to the current spec., however, the manufacturer is not responsible for the yield.
RPN	Replenishment, PO generated to replenish stock to achieve target levels.
RWK	Rework.
SAM	Sample.
SIT	Site - Applicable to a single geographical site.
SSO	Standard Sales Order.
STD	Standard.
SVC	Service.
UCO	Order for upgrading contract - This order will upgrade the contract.
WDW	Worldwide - Applicable to worldwide.
WRM	Warranty Replacement.
WRP	Warranty Repair.

### 3.3.2.10 CustomerType

Code identifying the type of end user.

Name	Documentation
ENC	End customer.
ULC	Ultimate customer.

### 3.3.2.11 ProductSubstitutionReason

A code identifying the reason a product is substituted for the original product requested.

Name	Documentation
BEP	Better Product - The requested part number is currently not available offering product upgrade.
CMP	Component of the identified product is a component of this referenced product.
DWN	Downgrade - The identified product is a downgrade for this referenced product.
IPN	Invalid Part Number - The requested part number is invalid.
PRE	Predecessor - The product that existed prior.
QRH	Quality / Reliability Hold.
REP	Retired product - The requested part number is no longer available.
RPL	Replace - The identified product is a replacement for this referenced product.
SCC	Successor - The superseding product that will be replacing the current product.

### 3.3.2.12 PurchaseOrderAcknowledgmentReason

The reason for acknowledging a purchase order.

Name	Documentation
ACC	Accept with Changes.
ALA	Already Acknowledged.
CNO	Contract Number - Invalid or missing contract number.
CRH	Credit Hold.
DAT	Date - Invalid or missing date.
DSN	Duplicate serial number.
EXR	Export Restricted.
IBI	Invalid buyer ID.
IBT	Invalid Bill To - Use if Bill To is missing or invalid.
IFC	Invalid Fulfillment Code - Use if unsupported Fulfillment Code or the code is not the same for all the lines in the purchase order.
IGT	Invalid GTIN.
IID	Invalid ID.
INB	Invalid Billing.
INC	Invalid Configuration.
INI	Insufficient Inventory.
INP	Invalid Product.
IPL	Invalid Price List.
IPO	Purchase Order Number - Invalid or missing purchase order number.
IQR	Invalid Quote Reference.
ISL	Invalid or missing service level or service type.
ISN	Invalid or missing serial number.
IST	Invalid Ship To - User if Ship To is missing or invalid.
NAU	Not Authorized to sell.
OGT	Obsolete GTIN.

PAR	Part Replacement.
PAS	Part Substitution.
PEN	Pending.
PPO	Packaged Product Only - no licenses.
PRI	Pricing - Invalid or missing price.
PRS	Product already Shipped.
QTY	Quantity - Invalid or missing quantity.
RNC	Reject - Non-Cancel/non-returnable.
RNW	Reject - Nsot within cancellation window.
SCR	See Comments for Reason.
SRL	Service Location - Invalid or missing service location.

### 3.3.2.13 PurchaseOrderFillPriority

Code identifying fill priority for manufacturing in a constrained condition. Value to be determined by Trading Partner Agreement

1 = highest priority, 5 = medium priority and 9 = lowest priority.

Name	Documentation
HIG	High.
LOW	Low.
MED	Medium.
PR1	Priority 1.
PR2	Priority 2.
PR3	Priority 3.
PR4	Priority 4.
PR5	Priority 5.
PR6	Priority 6.
PR7	Priority 7.
PR8	Priority 8.
PR9	Priority 9.

### 3.3.2.14 ShipmentTerms

Code identifying the terms under which a product is shipped.

Name	Documentation
ADC	Advance collect.
ADP	Advance prepaid.
CAA	Cash in advance.
CAD	Cash on delivery.
CFC	Collect, freight credited to payment customer.
CFR	Cost and freight.
CIF	Cost, Insurance and Freight.
CIP	Carriage and Insurance Paid to.
COL	Collect.
CPT	Carriage Paid To.
CRC	Credit card.
CUP	Customer pick-up/backhaul.
DAF	Delivered at Frontier.

DDP	Delivered Duty Paid.
DDU	Delivered Duty Unpaid.
DEQ	Delivered Exquay.
DES	Delivered Ex Ship.
EXW	Ex Works.
FAS	Free Alongside Ship.
FCA	Free Carrier.
FOB	Free On Board.
LEC	Letter of Credit.
NOS	Not specified.
PAE	Payable elsewhere.
PCC	Prepaid but charged to customer.
PIU	Pickup.
PRE	Prepaid only.
PRS	Prepaid (by seller).
RFC	Return container freight paid by customer.
RFF	Return container freight free.
RFS	Return container freight paid by supplier.
TPP	Third Party Pay.

### 3.3.2.15 SpecialFulfillmentRequest

Code identifying a special fulfillment request, e.g. delivery options.

Name	Documentation
AQM	Add quantity to make minimum weight requirement.
BIG	Bid Guarantee.
BON	Back order only if new item.
BOO	Back order if out of stock.
BOS	Back order if items are out of stock or not yet published.
COM	Combined small disadvantaged business and labor surplus area set-aside.
CON	Consignment.
CSD	Consolidate Delivery.
DNP	Do Not Preship.
DNS	Do not ship/invoice only.
EIQ	Exclude Import Quota in First Cost.
EPA	Equal Product Allowed.
FAS	Factory Ship.
FIK	Fill or kill.
GUS	Guaranteed Sale.
IIQ	Include Import Quota in First Cost.
LPS	Large purchase set-aside for small business.
LSA	Labor surplus area set-Aside.
MAP	May Preship.
MUD	Mutually Defined.
MYA	Multi-year Award.
NBO	No Back Order.
NOS	No Substitutes.
NPS	Notify prior to shipment if quantity specified is not available.

OQB	On Qualified Bidders List.
OQM	On Qualified Manufacturers List.
OUS	Other Unlisted Sales Condition.
PLS	Partial labor surplus area set aside.
RAS	Restricted to approved sources.
REI	Restricted to educational institutions.
RHB	Restricted to historically black college or university or minority institution.
RIP	Restricted to industrial preparedness program participants.
RQP	Restricted to Qualified Products List (QPL) Products.
RUC	Restricted to U.S. and Canadian Sources.
RYI	Restricted to Young Investigator Program.
SA8	Section (8a) set-aside.
SAI	Set-aside for american indian-owned business.
SAS	Ship as soon as possible.
SBA	Ship Per Release or Buyer Authorization.
SBS	Small business with small disadvantaged business consideration set-aside.
SDS	Small disadvantaged business set-aside.
SFT	Ship Full Truck only.
SHC	Ship Complete.
SIA	Substitute Item Allowed.
SIP	Ship In-Place.
SMP	Small purchase set aside for small businesses.
SP1	Ship Partial - balance back order.
SP2	Ship Partial - Balance Cancel.
SP3	Ship Partial - Balance Substitute.
SP4	Ship Partial - Carload Lots Only.
SP5	Ship Partial - Item Qty Proportional To Total Order.
SP6	Ship Partial - Truckload Lots Only.
SPR	Ship Per Release.
SPS	Ship Per Schedule.
SRA	Small Remaining Balance Cancellation Allowed.
SRN	Small Remaining Balance Cancellation Not Allowed.
URP	Unrestricted Procurement.
WAR	Warranty.
WHS	Warehouse Ship.

### 3.3.2.16 TaxExemptionCode

Code identifying the type of tax exemption for a product or service.

Name	Documentation
AGR	Agriculture.
AQT	Tax exemption for aquatic product for open-sea fishery.
BTL	Tax exemption for border trade with low value - import/export of goods with low value at border.
CPT	Exempt - From County Property Tax.
CRT	Tax exemption for charity - levy free import of commodity for helping the poor charity from beyond the border non-refundable donation to within-

	border.
CSM	Tax exemption for consignment of assembly and replenishment material and export of finished product.
DIS	Disabled.
DIV	Disabled Veteran.
DPI	Direct Pay ID.
DRD	Tax exemption for disaster relief donation - import goods using disaster relief donation.
EFE	Exempt - For export.
EFR	Exempt - For resale.
EVD	Tax exemption for entire vehicle duty - Levy payment for automobile spare part under the entire vehicle special characterization.
EVI	Tax exemption for entire vehicle special levy - import of automobile spare part under the entire vehicle special characterization.
EXC	Tax exemption for exceptional case - import/export of goods under exceptional levy exemption.
FAD	Tax exemption for free aid - import/export cargo for free aid.
FFE	Tax exemption for import/export of goods by sole foreign capital funded enterprise.
FTZ	Tax exemption for free tax zone - tax free zone for import of self consumption commodity.
GND	Tax exemption for general duty or general levy for import/export goods.
GST	Exempt - Goods and Services Tax.
HOM	Homestead.
ICT	Tax exemption for incentive program - import of equipment under national/foreign capital national development incentive program.
IET	Tax exemption for internally set rule - import/export of goods enjoying temporarily set levy rate.
IFS	Tax exemption for public infrastructure eg. Import of equipment for correspondence, harbor, railroad, road, airport construction.
IGC	Tax exemption for integrated circuit - import of goods for integrated circuit manufacturing companies.
IMM	Tax exemption for import for manufacturing - import of manufacturing material and export of finished product.
ITA	Tax exemption for ITA products - IT product without full levy number.
ITS	Tax exemption for internal sale equipment - equipment and key components of open-sea ships for internal sales.
LAE	Material taxable - labor exempt.
LFC	Tax exemption for local-foreign cooperation - import/export of goods of local-foreign cooperation company.
LFV	Tax exemption for local-foreign joint venture - import/export of goods of local-foreign joint venture company.
LOF	Exempt - Letter on File.
LON	Tax exemption for loan project - import of goods using loan.
LOS	Exempt - Local service.
LOS	Tax exemption for international financial institution loan and foreign government loan, specified electromechanical device spare parts.
LPT	Tax exemption for land petroleum - import of equipment for exploration, extraction of land petroleum.
LPT	Exempt - From Local Property Tax.
MAE	Labor taxable - Material exempt.

MFE	Tax exemption for manufacturing equipment - import of un-priced equipment by foreign company conducting manufacturing trade.
MNE	Tax exemption for import cargo for major national event.
MPT	Tax exemption for marine petroleum - import of equipment for exploration, extraction of marine petroleum.
NDF	Tax exemption for nationally approved duty free - import/export goods which have been approved duty-free by state council.
NE1	Not exempt - For resale.
NE2	Not exempt - Not for resale.
NFR	Exempt - Not For Resale.
NOH	Non-homestead.
NOT	Not taxable.
NTL	Tax exemption for nationalization - Import of parts for nationally specified small vehicle and video camera production.
O65	Over 65.
OLR	Tax exemption because of other legal regulation - Other legal regulation which reduce/eliminate import and export cargo levy.
OPA	Tax exemption for Hong Kong/Macau OPA - HongKong/Macao textile that went through manufacturing in China that has obtaining export permit.
OPS	Open space.
OPT	Other Property Tax exemption.
OSV	Tax exemption for open sea vessels - Open sea ships and equipment component.
OTZ	Tax exemption for other zone that uses special policy to export cargo.
PSL	Exempt - Per State Law.
PST	Exempt - Provincial Sales Tax.
REE	Recurring exempt.
SEG	Tax exemption for scientific education goods - universities and scientific research institution importing scientific educational goods.
SFD	Tax exemption for self funding - import of equipment, spare parts, and fittings, using own funding on top of foreign company investment amount.
SPD	Tax exemption for spare part duty - Levy payment for automobile spare part under the non-entire vehicle special characterization.
SPT	Exempt - From School Property Tax.
SRG	Tax exemption for specific zone for import of self consumption commodity or export cargo.
TNT	Tax exemption for enterprises who import cargo for technological transformations.
TOE	Totally exempt.
TOS	Exempt - Toll service.
TPT	Exempt - From state property tax.
USE	Usage exempt.
USG	Exempt - Sale to U.S. government.
WOF	Working farm.



### 3.3.2.17 SpecialHandling

Code identifying special handling or packaging requirements for the product.

Name	Documentation
15M	15 Minute Window.
24H	24 Hour Availability.
AAO	Attachments - Advance Only Waybill.
ACC	Accepted by Carrier at Owner's Risk of Freezing.
ACD	Air Conditioning Disconnect and Connect.
ACU	Attachment - Customer's Document.
ADC	Additional Copy of Shipping Papers for Proof of Delivery.
ADF	Advanced Fee.
ADL	Advance Loading.
AGS	Armed Guard Service.
AHM	Accessible Hazardous Material.
AMD	A.M. Delivery Requirement.
ANU	Anchoring and Unanchoring.
ANV	Annual Volume.
APW	Attachment - Prepaid Waybill.
ART	Air Ride Truck Service.
ASE	Attachment - Shipper's Export Document.
ASM	Attachment - Shipper's Manifest.
ASP	Attachment - Shipper's Packing Instructions.
ASR	Assembly Service Requested.
ATD	Aggregate Tender Discount.
ATT	Air Ride Tractor Service.
AUS	Auxiliary Service.
BA1	Bunker Adjustment - 20 Foot Container.
BA2	Bunker Adjustment - 40 Foot Container.
BCC	Bill Consignee for Weigh Charges.
BCP	Bypass Consolidation Point.
BFS	Barge Freight All Kinds Service.
BJA	Bunker Adjustment.
BKS	Block Stowage.
BLB	Blocking and Bracing.
BLS	Blind Shipment.
BNS	If Bad Ordered Notify Shipper.
BOL	Bolster Load, Do Not Switch.
BSA	Bunker Surcharge Authorized.
BSC	Bill Shipper for Weigh Charge.
BUA	Bulky Article.
CA1	Currency Adjustment - 20 Foot Container.
CA2	Currency Adjustment - 40 Foot Container.
CAA	Cargo Aboard.
CAB	Chain and Binders.
CAC	Carrier Caboose.
CAR	Carrier.
CAT	Cargo Taxes.
CBC	Cargo on Board Certification Required.

CCB	Convert Commercial Bill of Lading (BOL) to Government BOL.
CCE	Certification that the Containers Being Returned Empty Were Received Filled by Rail Freight Service.
CCL	Container, Consolidator Load.
CER	Certification.
CFB	Cleared for Border Crossing.
CFC	Customs Fees - Container Level.
CFE	Cleared for Export.
CFI	Customs Fees - Lift Level.
CFL	Container, Factory Load.
CGC	Carrier Guard Car Service.
CHB	Clearinghouse Balance.
CIP	Commercial Invoice Preparation.
CIR	Circuitous Routing.
CLC	Carrier Load and Consignee Unload.
CLE	Cleaning.
CLH	Consolidation and Line Haul.
CLL	Commodity Loaded Less Than or Equal To the Car Ordered.
CLU	Carrier Load and Carrier Unload.
CNE	Certification That the Newsprint Winding Cores Being Returned Empty Were Received Filled by Rail Freight Service.
COA	Controlled Atmosphere.
COD	Container Diversion.
COL	Container Lease.
COM	Container Mounting.
CON	Conductivity/Anti-static Additive.
COO	Certificate of Origin.
COS	Completing Shipment.
COU	Consignee Unload.
COV	Courier, Overnight.
CPM	Customs Papers Mailed.
CPN	Customer Required PRO Number.
CRA	Class Rates Applied.
CRD	Comb. Rates over Detroit.
CRL	Customer Required Packing List.
CRN	Customer Required Appointment Number.
CRP	Contract Rates Apply.
CRT	Cross Town.
CSD	Courier, Same Day.
CSL	Consolidation.
CSR	Certification that this Shipment is for Recycling as Defined in Applicable Tariffs Containing Such Provisions.
CSU	Constant Surveillance.
CUI	Customs Inspection.
DAN	Dangerous.
DAR	Drop and Run.
DCE	Detention of Conveying Equipment and the Power Unit.
DEM	Demurrage.
DEP	Detention of Conveying Equipment Excluding the Power Unit.
DES	Delivery Service.

DEV	Detention (Vehicle).
DHI	Do not Hump or Hump into.
DID	Direct Delivery.
DNC	Do Not Couple to Double Shelf Couples.
DND	Do Not Divert.
DNF	Do Not Freeze.
DNH	Do Not Hump.
DNP	Do Not Pool.
DNT	Do Not Transfer Contents.
DNU	Do Not Uncouple.
DOD	DOD Constant Surveillance Service.
DOM	Domestic.
DOS	Documentation - Special.
DP1	Detention With Power Units (30 minute periods).
DP2	Detention With Power Units (60 minute periods).
DPD	Drayage at Port of Debarkation (Rate Zone).
DPE	Drayage at Port of Embarkation (Rate Zone).
DRO	Drop-Off Delivery.
DSR	Distribution Service Requested.
DSW	Delivery Only on Surrender of Written Order.
DVN	Delivery Verification Not Required.
DWA	Destination Weights Apply.
ECS	Escort/Courier Service.
EET	Electronic Equipment Transfer.
EHM	Endorsed as Hazardous Material.
ELB	Extra Labor.
EMM	Empty Movement.
EMR	Empty Return.
EMS	Emergency Service.
END	Endorsement.
EOS	Escort Service with Overnight Subsistence.
EPP	Export Preparation.
EPT	Export.
EQU	Equipment..
ERA	Expedited Rates Applied.
ERI	Expand Remove and Install.
ESC	Escort.
EST	Escort Services (Telephone).
EUV	Exclusive Use of Vehicle.
EVA	Excessive Valuation Authorized.
EXC	Exempt Commodity.
EXD	Extra Driver.
EXL	Extra Lights.
EXP	Expedite.
EXS	Expedited Service.
EXU	Exclusive Use.
EXW	Excessive Weight.
FIS	Filtration Service.
FLS	Flatrack Surcharge.
FOD	FOD, FOB - Destination.

FOS	FOS, FOB Shipping Point.
FPT	For Processing in Transit.
FRA	Fragile - Handle with Care.
FST	For Storage in Transit.
FUS	Full Service.
GGC	Government Guard Car.
GOC	Government-Owned Containers.
GSS	Greater Security Service.
GVC	Government Caboose.
HAL	Hold at Location.
HAN	Handling.
HAR	Harmless.
HCD	Hazardous Cargo On Deck.
HCT	High Cube Trailer Rates.
HEA	Heat.
HES	Heat - Special.
HFO	Hold for Orders.
HFR	Home for Repair.
HIT	Heat in Transit.
HMS	Hazardous Materials Surcharge.
HOR	Heater or Refrigeration.
HVL	High Value Load.
IHM	Inaccessible Hazardous Material.
IMP	Impactographs.
IMS	Import Shipment.
INB	In-bond.
IND	Inside Delivery.
INH	Inspect Hourly if Car Stopped.
INP	Inside Pickup.
INS	Insulated.
IPM	Intra-Plant Move.
ISS	Intermodal Shipment Service.
ITS	Interline Transfer Service.
JIT	Just-In-Time (JIT).
JLE	Joint Line Exception.
KFF	Keep From Freezing Percent Differential.
KMD	Keep Material Dry.
LAA	Labor Associated with Detention of Conveying Equipment.
LAB	Land Bridge (Import/Export).
LAD	Labor Disturbance.
LAO	Layover.
LAS	Layover Service.
LBD	Labor Disturbance.
LBS	Light Bar Service.
LBT	Low Boy Trailer/Flat Bed.
LC1	Land Currency Adjustment - 40 Foot Container.
LC2	Land Currency Adjustment Factor - 20 Foot Container.
LCA	Land Currency Adjustment - 40 Foot Container.
LCF	Land Currency Adjustment Factor - 20 Foot Container.
LDE	Labor Associated with Detention of Conveying Equipment.

LDP	Linehaul from Port of Debarkation.
LEP	Linehaul To Port of Embarkation.
LFC	Less Than Full Carload.
LFL	Less Than Container, Factory Load.
LFV	Loaded to Full Visible Capacity.
LIS	Linehaul Service.
LIU	Live Unload.
LOC	Liability of Carrier.
LOD	Loading Devices.
LPD	Linehaul Percent Differential.
LSO	Local Service Only.
LTC	Less Than Container.
LTD	Liner Terms at Port of Debarkation.
LTE	Liner Terms at Port of Embarkation.
LTL	Less Than Container, Consolidator Load.
LTT	Less Than Truckload.
MAW	Manifest Must Accompany Waybill.
MER	Mechanical Refrigeration.
MFI	Moving Under "For Furtherance Instructions" and May Be Delivered.
MOA	Modified Atmosphere.
MSS	Motor Surveillance Service.
MTS	Multi-Tank Surveillance Service.
MUP	Multiple Pickup.
NCB	Notify Consignee Before Delivery.
NEF	New Equipment First Transborder Movement.
NFE	Not for Export.
NFS	Nontransit Flat Shipment.
NMR	No Marshalling Required for Hazardous Materials.
NPR	No Placards Required.
NRC	Not Restricted Cargo.
NSB	Notify Shipper Before Reconsignment.
NSE	No Special Entrainment Required.
NSI	Notify Shipper Immediately if Shipment is Delayed en Route.
NUW	In Case of Fire Do Not Use Water.
OAH	Offshore - Alaska/Hawaii Service.
ODS	On Deck Stowage.
OHC	Over Height Container.
OTH	Other.
OVF	Overflow.
OVP	Oversized Premium.
OVW	Overweight.
OWR	One Way Rates Applied.
PAD	Pickup and Delivery.
PAS	Partial Shipment.
PAU	Pack and Unpack.
PAW	Preparation of Air Waybill - Origin.
PCC	Preparation of Canadian Customs Invoice.
PDB	Pickup and Delivery Beyond Service Area.
PDL	Percent Differential - Less Than Container.
PDS	Pickup and Delivery From Storage in Transit.

PEE	Preparation of Export Entry.
PFH	Protect From Heat.
PHR	Per Hour Rates Applied.
PIC	Preparation of Insurance Certificate.
PIT	Pier Time.
PIU	Pickup.
PLR	Protect Lowest Through Rate.
PMD	P.M. Delivery Requirement.
PMR	Per Mile Rates Apply.
POC	Port Changes.
PPC	PPC, FOB -Destination charge to customer.
PPD	PPD, Prepay+I35/Add Freight to Invoice.
PPS	Product Protection Service.
PRS	Priority Service.
PSC	Protective Security Service.
PSN	Pickup of Shipments on Saturday, Sunday, and/or Holidays Requiring Absolute Next Day Delivery.
PSP	Pallets/Skids/Platforms.
PSS	Pickup of Shipments Requiring Same Day Delivery Service.
PST	Pickup of Shipments Requiring Same Day Delivery Service and/or Delivery at a Specified Time.
PUE	Preparation of U.S. Export Documentation.
PUP	PUP Trailer Rates Apply.
RAH	Railhead Handling.
RAM	Radioactive Material.
RBC	Render Bill for Charges.
RCD	Reefer Cargo Percent Differential.
RCG	Return Carrier Guard Car Service.
RCP	Railroad Controlled Private Equipment Subject to Demurrage.
RCS	Reconsignment.
REA	Return Authorization.
REC	Return of Empty Container.
RED	Redelivery.
REF	Refrigerated.
REM	Reefer Maintenance.
RER	Reweight Requested.
RES	Reservations.
RFT	Record for Transit.
RMP	Return Movement of Pallet.
ROE	ROEE Van Type Truck.
ROS	Roadrailer Service.
RSC	Requires Shelf Couplers.
RSD	Residential Delivery.
RSM	Reshipment.
RST	Respotting.
RTS	Round Trip Service.
RUO	Rush Order.
RVC	Released Value Charge in Excess of Carrier Maximum Liability.
RWE	Roadway Easy Rates Applied.
SAD	Saturday Delivery.

SAH	Stow Away from Heat.
SAR	Shipper Authorization Required for Diversion or Consignment.
SCA	Service Charge Applies.
SCC	Shipper Load/Carrier Count.
SCG	Shipper Certifies Gross Weight under 240,000 pounds.
SCL	Apply a Uniform Code Council/International Article Numbering Association (UCC/EAN) Serial Shipping Container Label to the Shipping Containers.
SCW	Stretch Wrap.
SDS	Special Dromedary Service.
SEC	Special Equipment Charge.
SED	Shipper Export Declaration Required.
SEE	Stairs, Elevator, Excess Carry.
SES	Security Signature Service.
SFD	Single Factor Origination/Port of Debarkation.
SFO	Single Factor Origination/Destination.
SFP	Single Factor Port of Embarkation/Destination.
SFS	Satisfactory Service Standards.
SGD	Single Driver.
SHH	Shipment Holdover for Holidays.
SHL	Shiftable Load.
SHP	Sunday or Holiday Pickup or Delivery.
SHW	Shipment Holdover for Weekends.
SID	Shipment to be Inspected at Destination and Disposition Instructions will be Furnished.
SIR	Signature Required.
SIS	Single Shipment.
SLC	Shipper Load and Carrier Unload.
SLD	Split Delivery.
SLO	Shipper Load and Count.
SLP	Split Pickup.
SLS	Shipper Load and Consignee Unload.
SMP	Small Package.
SMS	Special Motor Surveillance.
SNT	Shipment from Non-Temp Storage.
SOD	Stop-off at Destination.
SOE	Shipment Holdover on Weekends.
SOH	Shipment Holdover on Holidays.
SOO	Stop-off at Origination.
SOW	Shipment Holdover on Weekdays.
SPC	Special Containers.
SPD	Saturday Pickup or Delivery.
SPL	Shipper Load.
SPP	Special Permit.
SPR	Speed Restricted.
SPS	Special Permits.
SPU	Saturday Pick-Up.
SR1	Speed Restricted to 15 Miles per Hour.
SR2	Speed Restricted to 25 Miles per Hour.
SR3	Speed Restricted to 35 Miles per Hour.

SR4	Speed Restricted to 45 Miles per Hour.
SRC	Shove to Rest and Cover.
SRG	Storage.
SSC	Stripping, Sorting and Consolidation.
SSD	Subject to Special Detention Rules/Charges.
SSN	Substitute Service Not to be Used.
SSS	Satellite Surveillance Service.
SST	Spot for Storage - No Shipment.
STM	Special Train Movement.
STO	Stop-off.
STR	Signature and Tally Record.
STT	Stack Train.
STW	Stowage.
SUR	Supervisor Requested.
SVR	Surveying Routes.
TAT	Tendered as Truckload (Truckload Service Requested).
TCL	Trailer, Consolidator Load.
TDS	Time of Delivery and Signature Required.
TEC	Temperature Control.
TER	Termination.
TFL	Trailer, Factory Load.
TFP	Transfer Product.
THC	Terminal Handling Charges.
TLO	Top Load Only.
TMV	Tendering of Multiple Vehicles.
TOC	Truckload-Double Operator-Common Carrier.
TOP	Truckload-Double Operator-Padded Van.
TOS	Total Shipment.
TPS	Third Party Service.
TRA	Truck Rates Applicable.
TRP	Trailer Preparation - Special.
TRS	Trade Show.
TSN	Transmit a Ship Notice/Manifest Transaction Set.
TSS	Transit Shipment.
TTD	Team Track Delivery.
TTR	Tentative Release - Tentatively releasing the shipment either for import or export and subject to compliance to additional conditions which could be executed later.
TVR	Time Volume Rates Only.
UAP	Unload as Placarded.
UAT	Use of Alternate Terminal.
ULS	Unload from Left Side of Car.
UNH	Use No Hooks.
UNI	Unitized.
UNP	Unpacking.
UOR	Unloading or Reloading.
UPP	Unprotected Perishable.
URS	Unload from Right Side of Car.
VEI	Ventilation Instructions.
VEW	Verification Weigh.



WAI	Waive Inspection.
WCO	Weigh to Check for Overload.
WEE	Weigh Empty.
WEV	Weight Verification.
WID	Waived Inspection - Set Direct.
WPD	Written Proof of Delivery.
WTA	Waiting Time Authorized.

### 3.3.2.18 PurchaseOrderChangeType

Code identifying the type of purchase order change requested.

Name	Documentation
CHG	Chagnes - The revised purchase order reflects only net changes.
RSD	Resend - The revised purchase order is a resend of the original data with changes reflected in the individual data fields.

### 3.3.2.19 Event

Possible milestone dates within the life of an installation project. For example: Site Inspection Date; Earliest Start Date and etc.

Name	Documentation
ACA	ACA - Air-conditioning Arrangement Date.
ACT	ACT - Acceptance Testing Date.
APG	APG - All permit granted.
APS	APS - All permit submitted.
CME	CME - Commissioning End.
CWE	CWE - Civil Work end.
CWS	CWS - Civil Work start.
DDR	DDR - Detail Design Ready.
DEL	DEL - Delivery.
DIN	DIN - De-Installation Date.
DSF	DSF - Date Suitable Site Found.
DSS	DSS - Date Search for suitable Site started.
EDS	EDS - Equipment Delivered To Site.
EIN	EIN - Equipment Installed.
ESD	ESD - Earliest Start Date.
ETS	ETS - Equipment tested/ approved (commissioned).
EWC	EWC - Engineering Work Complete.
FSA	FSA - Floor Space Allocation Date.
INT	INT - Integration.
ITE	ITE - Installation of Telecom equipment.
LSG	LSG - Lease signed.
NCA	NCA - Network connectivity arrangement date.
PAC	PAC - Power Arrangement / connection date.
PDA	PDA - Power Density Arrangement Date.
RIN	RIN - Reinstallation Date.
SAB	SAB - Site Access Booked Date.
SID	SID - Site Inspection Date.

SPV	SPV - Site pre-validated.
SRF	SRF - Site Acquisition Request Form Released.
SRR	SRR - Site Acquisition Request Received.
STI	STI - Site Work agreed for Telecom Implementation.
SVL	SVL - Site validated.
TSS	TSS - Technical Site Survey.

### 3.3.2.20 DateType

Identifier which occurs with each milestone date to indicate whether the date is Planned, Forecast or Actual.

Name	Documentation
ACT	ACT - Actual.
FCT	FCT - Forecast.
PLN	PLN - Planned.

## 3.4 Shared

### 3.4.1 Shared

#### 3.4.1.1 Dependency Diagram

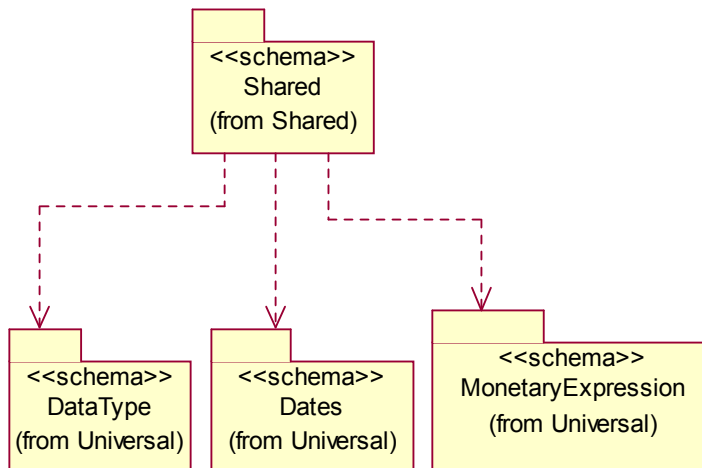


Figure 3-33 Dependency

#### 3.4.1.2 CarrierInformation

The collection of business properties that describe a carrier's identification.

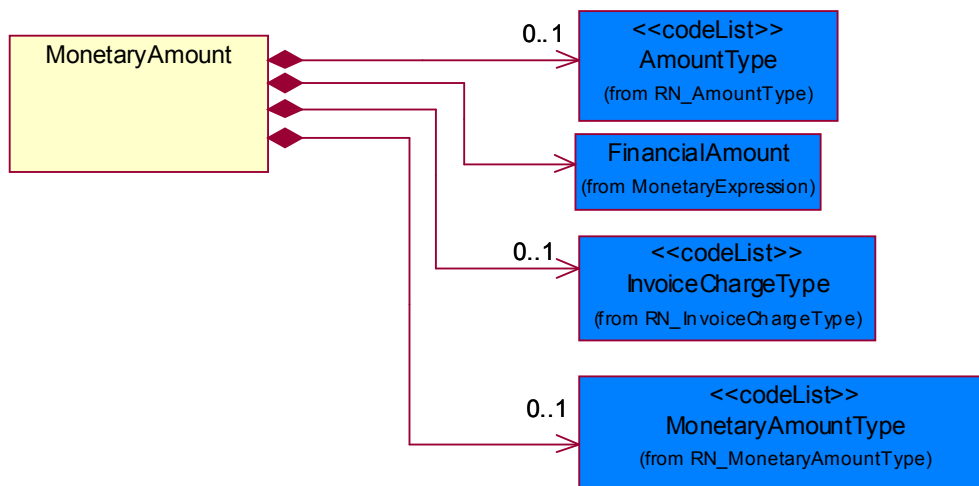
**Figure 3-34 CarrierInformation**

Attribute	Type	Documentation
identifier[0..1]	string	The unique identifier that identifies an account.

Composition	Cardinality	Type	Documentation
SCAC	1	SCAC	The Standard Carrier Alpha Code (SCAC) is a unique two-to-four-letter code used to identify transportation companies. NMFTA developed the SCAC identification codes in the mid 1960's to facilitate computerization in the transportation industry. Refer <a href="http://www.nmfta.org">http://www.nmfta.org</a> for more detail.

### 3.4.1.3 MonetaryAmount

The collection of business properties that describe the monetary amount defined by a specified currency.

**Figure 3-35 MonetaryAmount**

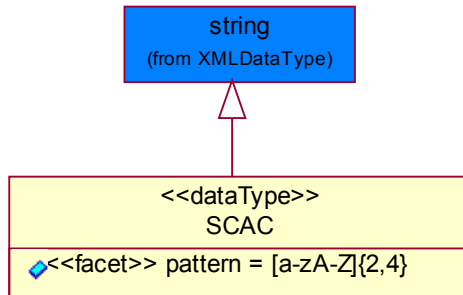
Composition	Cardinality	Type	Documentation
FinancialAmount	1	FinancialAmount	The business document must express financial amounts.
InvoiceChargeType	0..1	InvoiceChargeType	Code identifying the values for the types of charges contained in an invoice.
MonetaryAmountType	0..1	MonetaryAmountType	Code identifying whether the monetary amount is a debit or credit.

AmountType	0..1	AmountType	Code identifying the type of monetary amount.
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### 3.4.1.4 SCAC

The Standard Carrier Alpha Code (SCAC) is a unique two-to-four-letter code used to identify transportation companies. NMFTA developed the SCAC identification codes in the mid 1960's to facilitate computerization in the transportation industry.

Refer <http://www.nmfta.org> for more detail.



**Figure 3-36 SCAC**

Attribute	Type	Documentation
pattern		[a-zA-Z]{2,4}

### 3.4.2 CodeList

#### 3.4.2.1 FreeOnBoard

Code identifying a specified point where a product is delivered or placed on board a carrier without charge.

Name	Documentation
DES	Destination.
NMA	Name Address.
ORG	Origin.

#### 3.4.2.2 InvoiceChargeType

Code identifying the values for the types of charges contained in an invoice.

Name	Documentation
ALC	Allowances and Charges.
CUC	Custom Charges.
DEA	Deposit Amount.
ESC	Expedited Shipping Charge - Charge for accelerating the delivery of a product.
FRC	Freight Charges.
HAC	Handling Charges.
LEC	Lease Charge - Charge for the use of a product in which the purchaser assumes certain responsibilities of ownership.
LIC	License Charge - Charge for the use of a product (usually software) in which the manufacturer maintains ownership of the product.
MAC	Maintenance Charge - Charge (usually periodic) for providing maintenance support for a product.
PUC	Purchase Charge - Charge for a product in which the buyer takes all responsibilities of ownership.
QUD	Quantity Discount.
REC	Rental Charge - Charge for the use of a product (usually hardware) in which the manufacturer maintains ownership of the product.

#### 3.4.2.3 MonetaryAmountType

Code identifying whether the monetary amount is a debit or credit.

Name	Documentation
CRE	Credit.
DEB	Debit.
ZER	Zero remit.

### 3.4.2.4 ShippingServiceLevel

Code identifying the shipping service level, e.g., overnight, same day.

Name	Documentation
1BD	1BD, Same Business Day - 4 hour Response Time.
5BD	5 Business Days.
9AM	9 A.M.
ACH	Air Charter.
AEC	Air Economy.
AIC	Air Cargo.
AM	A.M.
ARS	Authorized Return Service.
ATA	Airport to Airport.
ATD	Airport to Door.
BCT	Bulk Commodity Train.
BUC	Business Class.
CBS	Consignee Billing Service.
COE	Courier Express.
DCR	Delivery Confirmation Return.
DEC	Delivery Confirmation.
DES	Deferred Service.
DNO	Delivery Notification Only.
DOS	Door Service.
DSN	Delivery scheduled next day by cartage agent.
DSS	Delivery scheduled second day by cartage agent.
DST	Delivery scheduled third day by cartage agent.
DTA	Door to Airport.
DTD	Door to Door.
DTP	Door to Port (Ocean).
ESP	Express Service Plus.
ESV	Expedited Service.
ESW	Expedited Service Worldwide.
EXS	Express Service.
EXW	Express Service - Worldwide.
FIC	First Class.
GEN	General.
GRO	Ground.
ISS	Other intermodal and stack service.
MAF	Manifest freight.
MET	Metro.
MUW	Multiweight.
NBD	Next Business Day.
NDA	Next Day Air.
NEM	Next Morning.
NFO	Next Flight Out.
NHW	Next day Hundred Weight.
NOR	NORMAL - Normal delivery.
NOS	Not served.
OIS	Other Intermodal and Stack service

OTH	Other.
OVN	Overnight.
PAS	Passenger service.
PIU	Pickup.
PM	PM.
PMI	Priority Mail Insured.
POB	P.O. Box/Zip code.
POD	Proof of Delivery (POD) with Signature.
PRM	Priority Mail.
PRS	Premium Surface.
PS1	Primary Service Area - Next Day by 10:30 A.M.
PS2	Primary Service Area - Next Day by 5:00 P.M.
PS3	Primary Service Area - Next Day By 9:30 A.M.
PS4	Primary Service Area - Next Day by Noon.
PS5	Primary Service Area - Second Day by Noon.
PTD	Port to Door (Ocean).
PTP	Port to Port (Ocean).
REG	Regular.
SAD	Same day.
SAP	Saturday Pickup.
SAT	Saturday.
SBD	SBD, Second Business Day.
SCH	Scheduled.
SDA	Second Day Air.
SDW	Second Day Hundred Weight.
SED	Second Day.
SEM	Second Morning.
SGW	Standard Ground Hundred Weight.
STC	Standard Class.
STG	Standard Ground.
STO	Standard Ocean.
STS	Standard Service.
SUH	Sunday and Holidays.
TDS	Three Day Service.
TIC	Time Critical.
TRG	Tracking - Ground.

### 3.4.2.5 PaymentMethod

Code identifying how the trading partner paid the seller for the product.

Name	Documentation
ACH	Automated Clearing House (ACH).
ACR	ACH Reversal.
BAD	Batched Delivery.
BIA	Billing Account.
BND	Bank Draft.
BOE	Book Entry.
CAC	Cashier's Check.
CAS	Cash.



CBB	Compensation by Balance.
CCP	ACH Savings Cash Concentration/Disbursement Plus (CCD+) Credit.
CCR	CCD+(NACHA Cash Concentration/Disbursement - Funds Transacted Plus an 80 Record Remittance Detail).
CCW	CCD (NACHA Cash Concentration/Disbursement - Funds Transacted without Remittance Information).
CDA	Credit/Debit Account.
CDD	Pre-Arranged Payment or Deposit (PPD) Credit to a Demand Deposit Account.
CDP	ACH Savings Cash Concentration/Disbursement Plus (CCD+) Debit.
CDS	Pre-Arranged Payment or Deposit (PPD) Credit to Savings.
CHE	Check.
CHIPS	Clearing House Interbank Payment System (CHIPS) Funds/Wire Transfer.
CLH	Clearinghouse.
CPC	Collect Payment by Company Check.
CPF	Collect Payment by Certified Funds.
CPP	Pre-Arranged Payment or Deposit Plus Addendum (PPD+) Credit to a Demand Deposit Account.
CRA	Credit Account.
CRC	Credit Card.
CRE	Credit.
CTC	ACH Savings Corporate Trade Exchange (CTX) Credit.
CTD	ACH Savings Corporate Trade Exchange (CTX) Debit.
CTP	CTP (NACHA Corporate Trade Payment - Transaction Plus Remittance Detail in Fixed Format).
CTX	CTX (NACHA Corporate Trade Exchange - Transaction Plus Remittance Detail in ANSI Standard Flexible Format).
CXC	ACH Demand Corporate Trade Exchange (CTX) Credit.
CXD	ACH Demand Corporate Trade Exchange (CTX) Debit.
DBT	Defined by TPA.
DCC	ACH Demand Cash Concentration/Disbursement (CCD) Credit.
DCD	ACH Demand Cash Concentration/Disbursement (CCD) Debit.
DCP	ACH Demand Cash Concentration/Disbursement Plus (CCD+) Credit.
DDA	Pre-Arranged Payment or Deposit (PPD) Debit to a Demand Deposit Account.
DDP	ACH Demand Cash Concentration/Disbursement Plus (CCD+) Debit.
DEB	Debit.
DEC	Debit Card.
DEM	Debit Memo.
DID	Direct Deposit.
DPP	Pre-Arranged Payment or Deposit Plus Addendum (PPD+) Debit to a Demand Deposit Account.
DRA	Draft.
DWO	Discount was Offered.
ECN	EDIBANX Clearing Network.
EFT	EFT.
EPS	Electronic Payment System.
EXC	1035 Exchange.
FIN	Financed.
FIO	Financial Institution Option.
FPB	Freight Payment Bank.

FRN	Federal Reserve Funds/Wire Transfer - Nonrepetitive.
FRR	Federal Reserve Funds/Wire Transfer - Repetitive.
GRA	Graduated.
INS	Invoiced Separately.
JPO	Joint Purchase Option.
LAP	Lease Agreement is in Place.
LEV	Level (Sum Constant).
LOB	Lock Box.
LOC	Letter of Credit has been provided.
MOD	Money order.
MOO	Money Order.
MOR	Mail order.
NPD	Non-Payment Data.
NPR	No Payment is Required.
OTH	Other.
PAM	Payment has Already been Made.
PAN	Payment is Net.
PAS	Payment after shipment.
PBC	Payment is made by Check.
PBS	Payment before shipment.
PCC	Payment is pre-paid with Credit Card.
PCP	ACH Savings Cash Concentration/Disbursement (PPD+) Credit.
PDD	ACH Savings Cash Concentration/Disbursement (PDD) Debit.
PDP	ACH Savings Cash Concentration/Disbursement (PPD+) Debit.
PIK	Payment was made in Kind.
PME	Payment was Made Electronically.
PMI	Payment will be made the Month after the Invoice.
PMN	Promissory note.
PNA	Private Netting Agreement, Pay by Wire Transfer.
PPC	Payment is made by Pre-paid Check.
PPD	ACH Savings Cash Concentration/Disbursement (PPD) Credit.
PPW	Payment is Pre-paid by Wire.
PRC	Preauthorized Check (Draft).
PRN	Proprietary Network.
PVC	Previously Charged.
PVN	Private Netting, Pay by Check.
PWT	Payment is made via Wire Transfer.
PYN	Payment note.
RDA	Related Detail Account.
SCC	ACH Savings Cash Concentration/Disbursement (CCD) Credit.
SCD	ACH Savings Cash Concentration/Disbursement (CCD) Debit.
SPA	Special Account.
SUA	Summary Account.
SWIFT	Society for Worldwide Interbank Financial Telecommunications (S.W.I.F.T.).
TGT	Telegraphic transfer.
TOF	Transfer of Funds by the banking institution.
TRC	Traveler's Check.
VIS	VISA Special Electronic Funds Transfer Network.
WAI	Waived.
WIT	Wire Transfer.



### 3.4.2.6 AmountType

Code identifying the type of monetary amount.

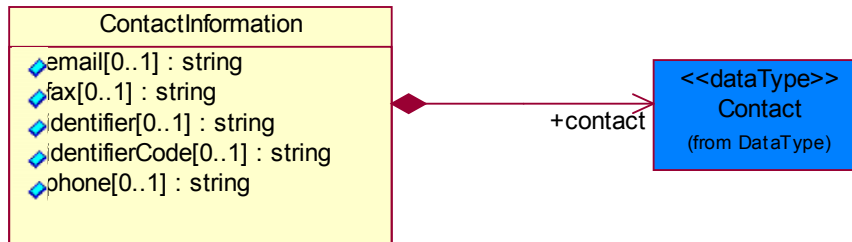
Name	Documentation
DIP	Discount Percentage.
DIS	Discount Value - The monetary amount of the discount on the price applied to a customer order.
FRE	Freight Charges - The monetary amount to be paid for freight transportation.
INS	InsuranceCharges - The monetary amount to be paid for freight insurance.
MAT	Material Cost - This object represents the material cost for the product.
MIS	Miscellaneous Charges - The monetary amount to be paid for miscellaneous charges.
NET	Net Amount.
PRC	Processing Charges - The monetary amount to be paid by consignee for consignment manufacturer.
TOD	Total Amount Due - Total amount due upon receipt of statement.
TOT	Total Amount - Total price for an entire business document.
TOV	Total Value Added Amount - The total amount of the shipment including any value added tax.
UNI	Unit Price - Agreed upon sale price for each unit ordered.
VAD	Value Added Unit Price - The price of a unit including any value added tax.

## 4. Universal Structure

### 4.1 ContactInformation

#### 4.1.1 ContactInformation

The business document must allow for the identification of the name of the department, service or individual to be contacted regarding the context of the business document.



**Figure 4-1 ContactInformation**

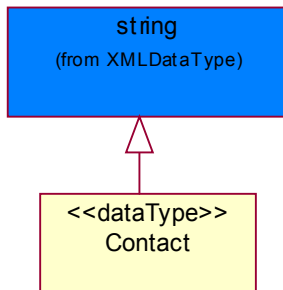
Attribute	Type	Documentation
email[0..1]	string	The electronic mail for the specified contact.
fax[0..1]	string	The fax number for the specified contact.
identifier[0..1]	string	Identifies the role of the contact (i.e. Service Technician, Account Manager) in the Business Process.
identifierCode[0..1]	string	IdentifierCode is a unique security authorization code to identify the contact- ie. badge ID.
phone[0..1]	string	The telephone number for the specified contact.

Composition	Cardinality	Type	Documentation
contact	1	Contact	The name of the department, service or individual to be contacted within the organization.

## 4.2 DataType

### 4.2.1 Contact

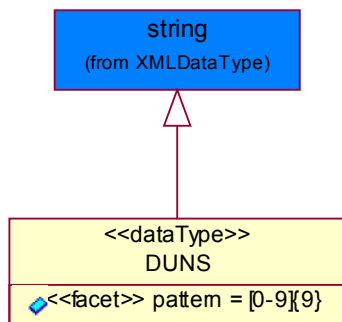
The name of the department, service or individual to be contacted within the organization.



**Figure 4-2 Contact**

### 4.2.2 DUNS

A number assigned by Dun and Bradstreet to identify a business location.

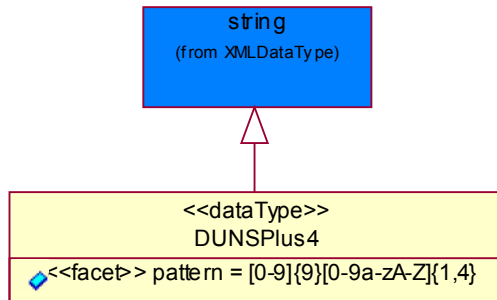


**Figure 4-3 DUNS**

Attribute	Type	Documentation
pattern		[0-9]{9}

### 4.2.3 DUNSPlus4

A identifier to specify a specific location within a business location.

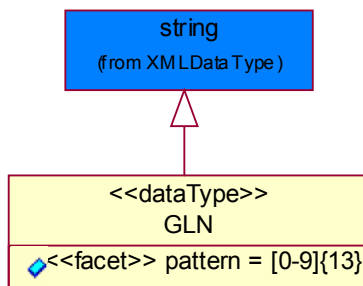


**Figure 4-4 DUNSPlus4**

Attribute	Type	Documentation
pattern		Data Universal Numbering System +4 (DUNS+4) number means the DUNS number assigned by Dun and Bradstreet, Inc. (D&B) plus an alphanumeric of length 4 suffix that may be assigned by a business concern.

### 4.2.4 GLN

Global Location Number (GLN) - A identifier to identify legal entities, trading parties and location.

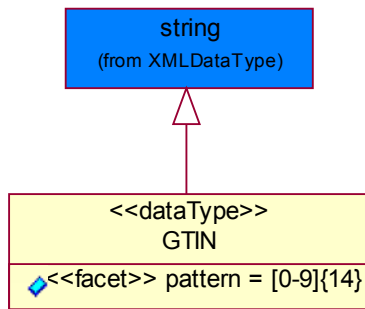


**Figure 4-5 GLN**

Attribute	Type	Documentation
pattern		[0-9]{13}

### 4.2.5 GTIN

Global Trade Identification Number (GTIN).

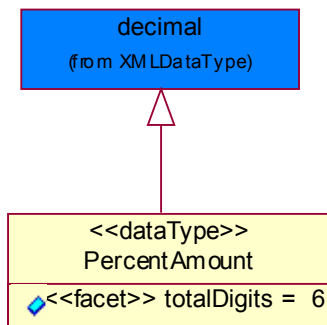


**Figure 4-6 GTIN**

Attribute	Type	Documentation
pattern		[0-9]{14}

### 4.2.6 PercentAmount

A number representing a percentage value, e.g. 75.125 represents 75 1/8 percent.



**Figure 4-7 PercentAmount**

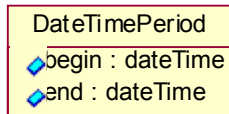
Attribute	Type	Documentation
totalDigits		6



## 4.3 Dates

### 4.3.1 DateTimePeriod

The business document must allow for the computation or statement of a period of time based upon date and time.



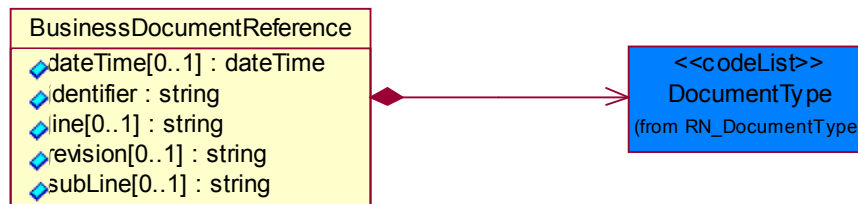
**Figure 4-8 DateTimePeriod**

Attribute	Type	Documentation
begin	dateTime	The date and time indicating the beginning of the date time period.
end	dateTime	The date and time indicating the ending of the date time period.

## 4.4 Document

### 4.4.1 BusinessDocumentReference

The business document reference object allows for the indirect referencing of a relationship to other business related documents.



**Figure 4-9 BusinessDocumentReference**

Attribute	Type	Documentation
dateTime[0..1]	dateTime	The date-time stamp indicating on the referenced business document.
identifier	string	Unique identification of the referenced business document.
line[0..1]	string	References the specific line number of the specified business document.
revision[0..1]	string	Referenced the revision of the specified business document.
subLine[0..1]	string	References the specific subline number of the specified business document.

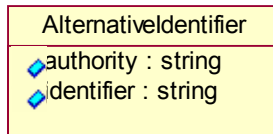
Composition	Cardinality	Type	Documentation
DocumentType	1	DocumentType	A code identifying the business

			context of a document.
--	--	--	------------------------

## 4.5 Locations

### 4.5.1 AlternativeIdentifier

Identifies the specified code and the name of the organization that a code is utilized from.

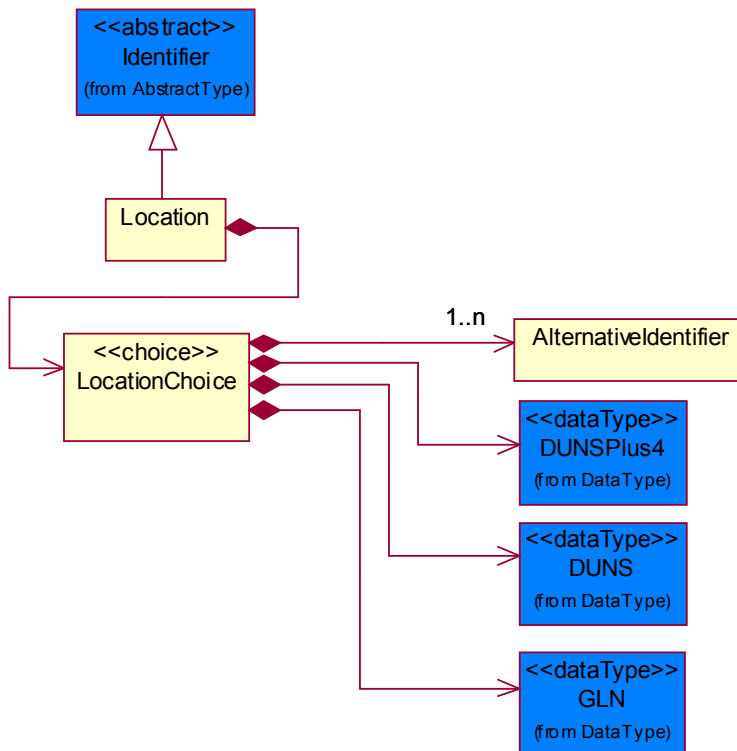


**Figure 4-10 AlternativeIdentifier**

Attribute	Type	Documentation
authority	string	The name of the organization that a code is utilized from.
identifier	string	The specified code to represent an entity (e.g. product, location, partner, etc.).

### 4.5.2 Location

The business document must specify a location.



**Figure 4-11 Location**

Composition	Cardinality	Type	Documentation
LocationChoice	1	LocationChoice	

### 4.5.3 LocationChoice

Composition	Cardinality	Type	Documentation
DUNSPPlus4	1	DUNSPPlus4	A identifier to specify a specific location within a business location.
DUNS	1	DUNS	A number assigned by Dun and Bradstreet to identify a business location.
AlternativeIdentifier	1..n	AlternativeIdentifier	Identifies the specified code and the name of the organization that a code is utilized from.
GLN	1	GLN	Global Location Number (GLN) - A identifier to identify legal entities, trading parties and location.

### 4.5.4 PhysicalAddress

The business document must provide a physical address for a party to the business transaction.

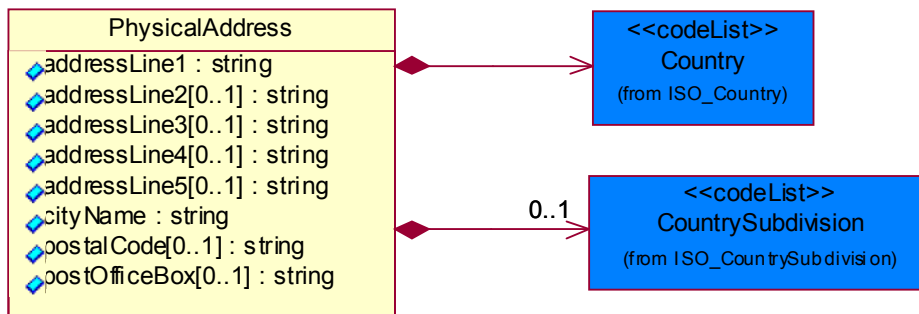


Figure 4-12 PhysicalAddress

Attribute	Type	Documentation
addressLine1	string	The first line of a physical address.
addressLine2[0..1]	string	The second line of a physical address.
addressLine3[0..1]	string	The third line of a physical address.
addressLine4[0..1]	string	The fourth line of a physical address.
addressLine5[0..1]	string	The fifth line of a physical address.
cityName	string	The name of a city.
postalCode[0..1]	string	Identifying geographic location as specified by a national postal code.
postOfficeBox[0..1]	string	The Post Office Box identifier used to identify a party's post office box.

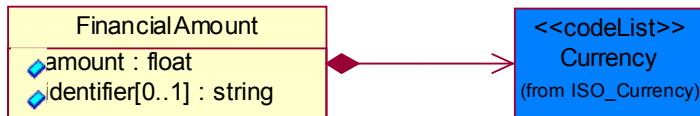
Composition	Cardinality	Type	Documentation
Country	1	Country	For representation of Country name RosettaNet has adopted ISO 3166-3;

			<p>1999. Refer to the following web page to get the latest version of the standard: <a href="http://www.iso.ch/iso/en/prods-services/iso3166ma/02iso-3166-code-lists/index.html">http://www.iso.ch/iso/en/prods-services/iso3166ma/02iso-3166-code-lists/index.html</a></p> <p>If you need more information about the ISO standard please contact ISO for more details.</p>
CountrySubdivision	0..1	CountrySubdivision	<p>For representation of a Countries subdivisions RosettaNet has adopted ISO 3166-3; 1999. Refer to the following web page to get the latest version of the standard: <a href="http://www.iso.ch/iso/en/prods-services/iso3166ma/02iso-3166-code-lists/index.html">http://www.iso.ch/iso/en/prods-services/iso3166ma/02iso-3166-code-lists/index.html</a></p> <p>If you need more information about the ISO standard please contact ISO for more details.</p>

## 4.6 MonetaryExpression

### 4.6.1 FinancialAmount

The business document must express financial amounts.



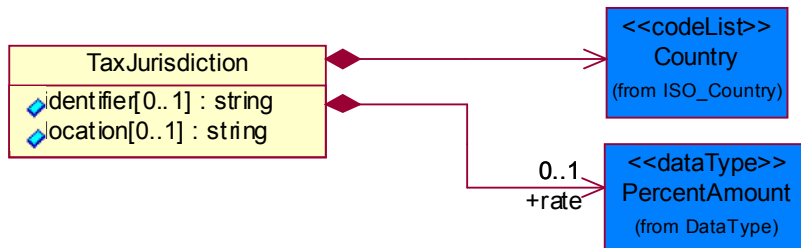
**Figure 4-13 FinancialAmount**

Attribute	Type	Documentation
amount	float	Specifies the monetary amount.
identifier[0..1]	string	Identifier is a unique identifier to which the specific price is tied - ie. promotion name/ program.

Composition	Cardinality	Type	Documentation
Currency	1	Currency	For representation of Currency codes RosettaNet has adopted ISO 4217; 1995. The British Standards Institution (BSI) is the ISO 4217 Maintenance Agency. Refer to the following web page to get the latest version of the standard: <a href="http://www.bsi-global.com/Technical+Information/Publications/Publications/tig90.xalter">http://www.bsi-global.com/Technical+Information/Publications/Publications/tig90.xalter</a> If you need more information about the ISO standard please contact ISO for more details.

### 4.6.2 TaxJurisdiction

The business document must identify the specific tax collection authority.



**Figure 4-14 TaxJurisdiction**

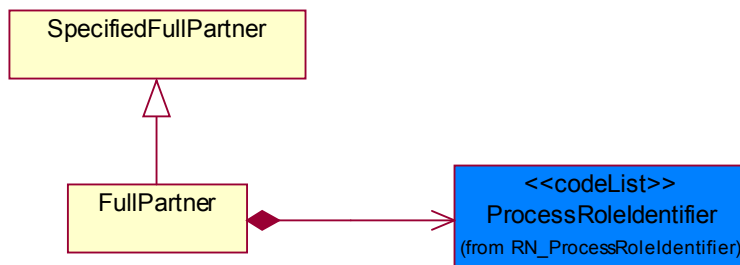
Attribute	Type	Documentation
identifier[0..1]	string	Unique identification for a taxing authority.
location[0..1]	string	Identification of the tax collection authority location.

Composition	Cardinality	Type	Documentation
rate	0..1	PercentAmount	This object represents the tax rate.
Country	1	Country	<p>For representation of Country name RosettaNet has adopted ISO 3166-3; 1999. Refer to the following web page to get the latest version of the standard:</p> <p><a href="http://www.iso.ch/iso/en/prods-services/iso3166ma/02iso-3166-code-lists/index.html">http://www.iso.ch/iso/en/prods-services/iso3166ma/02iso-3166-code-lists/index.html</a></p> <p>If you need more information about the ISO standard please contact ISO for more details.</p>

## 4.7 PartnerIdentification

### 4.7.1 FullPartner

The business document must describe the trading partners in the business transaction. This data structure provide the flexibility to describe a partner in all possible methods as for new, existing or known partner.

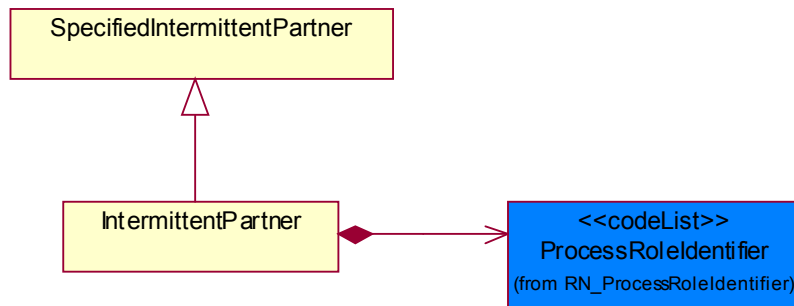


**Figure 4-15 FullPartner**

Composition	Cardinality	Type	Documentation
ProcessRoleIdentifier	1	ProcessRoleIdentifier	Describes the role of the partner in the business process. A partner will fulfill at least one or more roles during the business process.

### 4.7.2 IntermittentPartner

The business document must describe a physical address for a delivery.

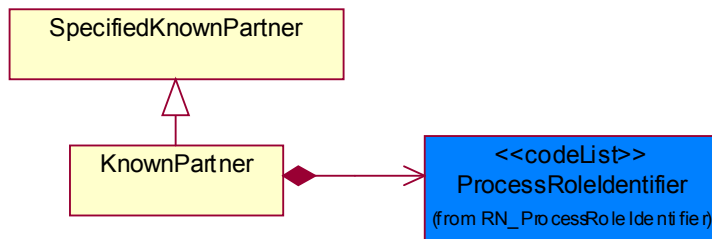


**Figure 4-16 IntermittentPartner**

Composition	Cardinality	Type	Documentation
ProcessRoleIdentifier	1	ProcessRoleIdentifier	Describes the role of the partner in the business process. A partner will fulfill at least one or more roles during the business process.

### 4.7.3 KnownPartner

The business document must describe the trading partners in the business transaction.

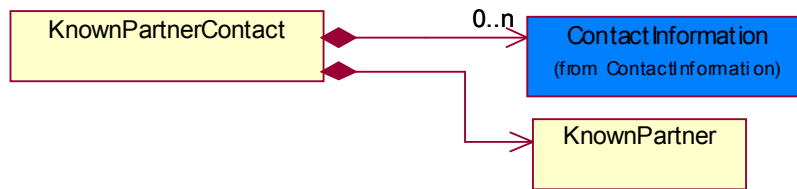


**Figure 4-17 KnownPartner**

Composition	Cardinality	Type	Documentation
ProcessRoleIdentifier	1	ProcessRoleIdentifier	Describes the role of the partner in the business process. A partner will fulfill at least one or more roles during the business process.

#### 4.7.4 KnownPartnerContact

The business document must describe the trading partners in the business transaction.

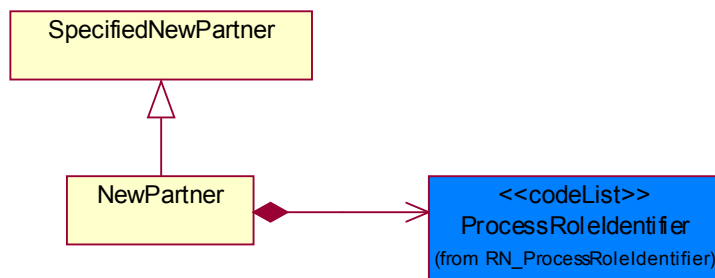


**Figure 4-18 KnownPartnerContact**

Composition	Cardinality	Type	Documentation
KnownPartner	1	KnownPartner	The business document must describe the trading partners in the business transaction.
ContactInformation	0..n	ContactInformation	The business document must allow for the identification of the name of the department, service or individual to be contacted regarding the context of the business document.

#### 4.7.5 NewPartner

The business document must describe a new, existing (but known to only one of the parties to the transaction) or an unknown party to the business transaction.



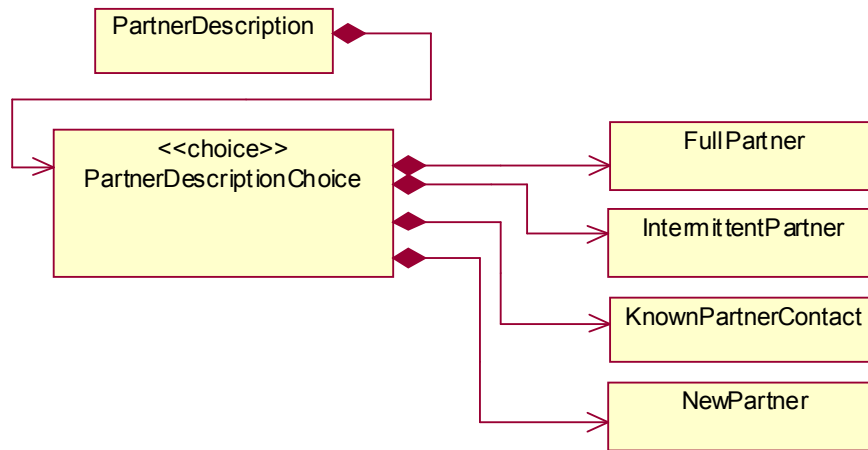
**Figure 4-19 NewPartner**

Composition	Cardinality	Type	Documentation
ProcessRoleIdentifier	1	ProcessRoleIdentifier	Describes the role of the partner in the business process. A partner will fulfill at least one or more roles during the business process.



#### 4.7.6 PartnerDescription

The collection of business properties that describe a business partners' identity, their contact information, where they are physically located and their function in a supply chain.



**Figure 4-20 PartnerDescription**

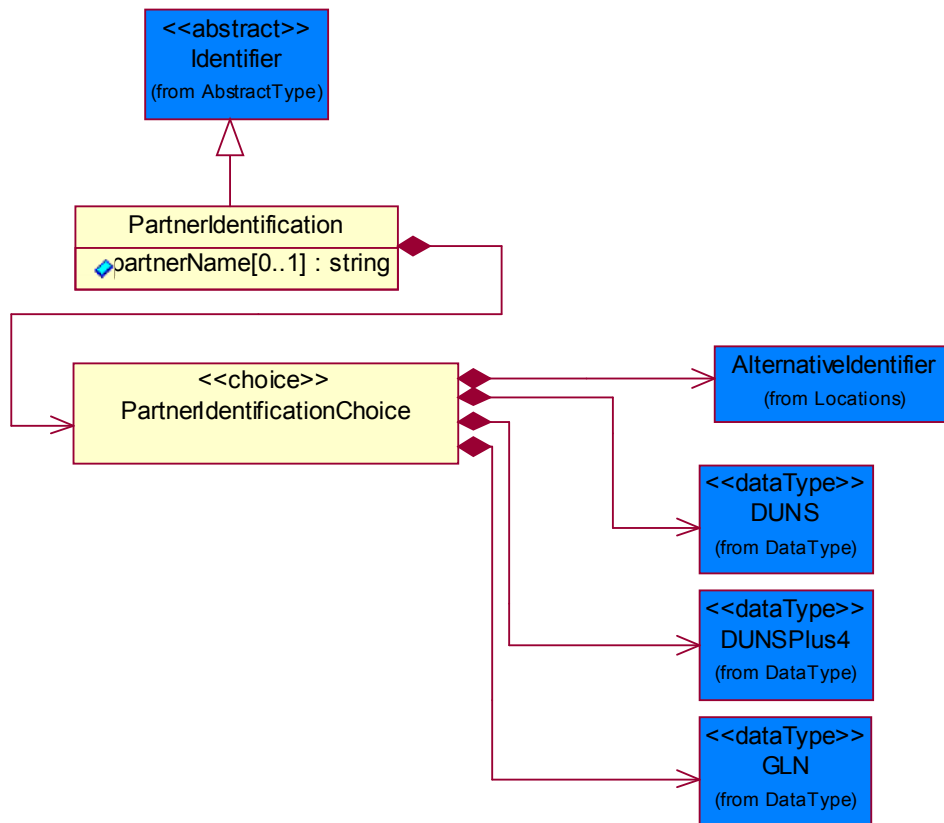
Composition	Cardinality	Type	Documentation
PartnerDescriptionChoice	1	PartnerDescriptionChoice	

#### 4.7.7 PartnerDescriptionChoice

Composition	Cardinality	Type	Documentation
KnownPartnerContact	1	KnownPartnerContact	The business document must describe the trading partners in the business transaction.
IntermittentPartner	1	IntermittentPartner	The business document must describe a physical address for a delivery.
NewPartner	1	NewPartner	The business document must describe a new, existing (but known to only one of the parties to the transaction) or an unknown party to the business transaction.
FullPartner	1	FullPartner	The business document must describe the trading partners in the business transaction. This data structure provide the flexibility to describe a partner in all possible methods as for new, existing or known partner.

### 4.7.8 PartnerIdentification

The business document must allow for the identity of one or more parties to the transaction.



**Figure 4-21 PartnerIdentification**

Attribute	Type	Documentation
partnerName[0..1]	string	The name of the partner's company/business.

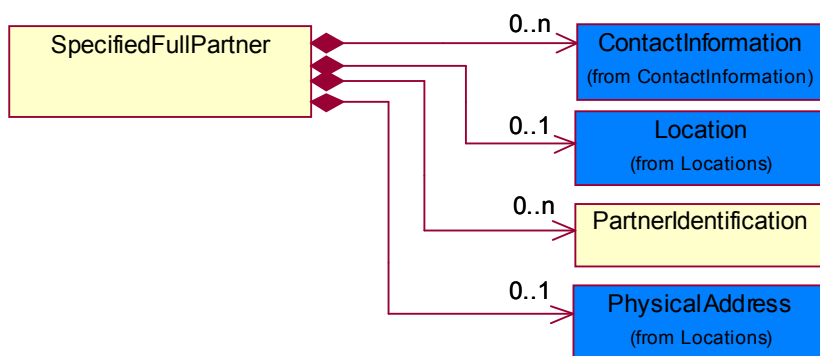
Composition	Cardinality	Type	Documentation
PartnerIdentificationChoice	1	PartnerIdentificationChoice	

### 4.7.9 PartnerIdentificationChoice

Composition	Cardinality	Type	Documentation
AlternativeIdentifier	1	AlternativeIdentifier	Identifies the specified code and the name of the organization that a code is utilized from.
DUNS	1	DUNS	A number assigned by Dun and Bradstreet to identify a business location.
DUNSPPlus4	1	DUNSPPlus4	A identifier to specify a specific location within a business location.
GLN	1	GLN	Global Location Number (GLN) - A identifier to identify legal entities, trading parties and location.

### 4.7.10 SpecifiedFullPartner

The business document must describe the trading partners in the business transaction. This data structure provide the flexibility to describe a partner in all possible methods as for new, existing or known partner. This is specifically for partner who role has been specified.



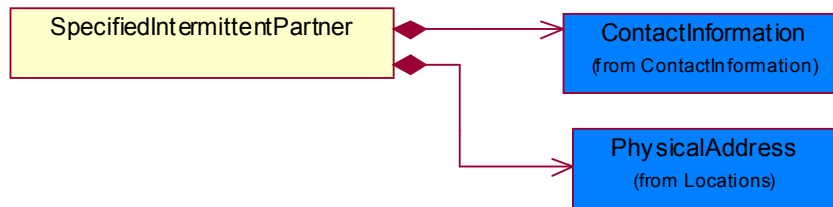
**Figure 4-22 SpecifiedFullPartner**

Composition	Cardinality	Type	Documentation
ContactInformation	0..n	ContactInformation	The business document must allow for the identification of the name of the department, service or individual to be contacted regarding the context of the business document.
Location	0..1	Location	The business document must specify a location.

PartnerIdentification	0..n	PartnerIdentification	The business document must allow for the identity of one or more parties to the transaction.
PhysicalAddress	0..1	PhysicalAddress	The business document must provide a physical address for a party to the business transaction.

#### 4.7.11 SpecifiedIntermittentPartner

The business document must describe a physical address for a delivery.



**Figure 4-23 SpecifiedIntermittentPartner**

Composition	Cardinality	Type	Documentation
ContactInformation	1	ContactInformation	The business document must allow for the identification of the name of the department, service or individual to be contacted regarding the context of the business document.
PhysicalAddress	1	PhysicalAddress	The business document must provide a physical address for a party to the business transaction.

#### 4.7.12 SpecifiedKnownPartner

The business document must describe the trading partners in the business transaction.

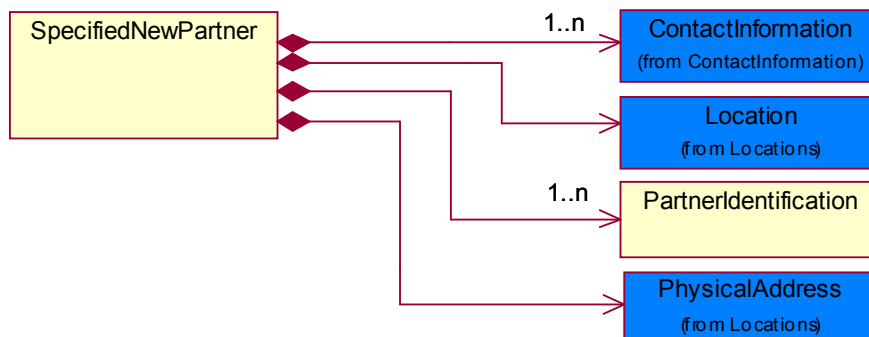


**Figure 4-24 SpecifiedKnownPartner**

Composition	Cardinality	Type	Documentation
PartnerIdentification	1	PartnerIdentification	The business document must allow for the identity of one or more parties to the transaction.

### 4.7.13 SpecifiedNewPartner

The business document must describe a new, existing (but known to only one of the parties to the transaction) or an unknown party to the business transaction.



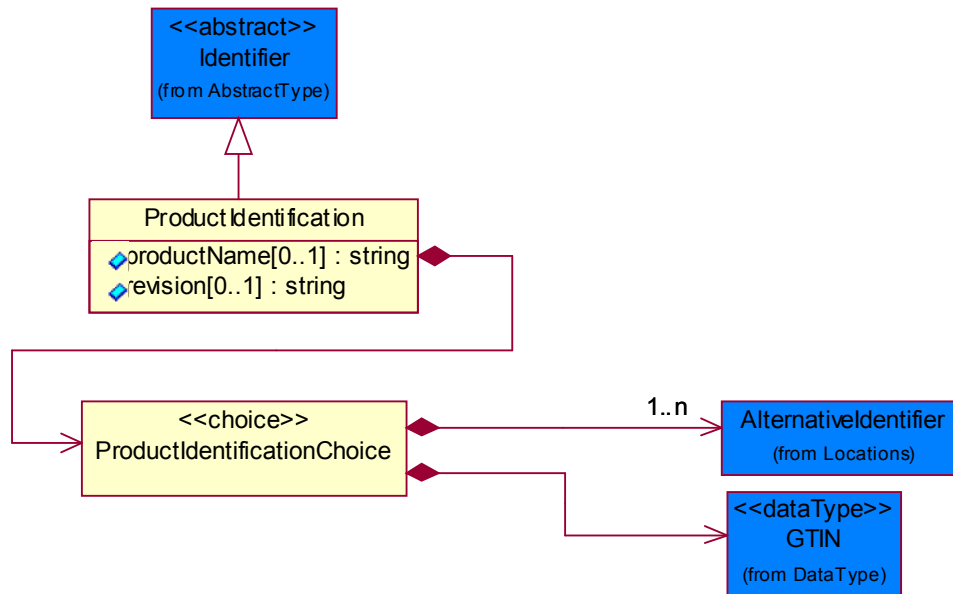
**Figure 4-25 SpecifiedNewPartner**

Composition	Cardinality	Type	Documentation
ContactInformation	1..n	ContactInformation	The business document must allow for the identification of the name of the department, service or individual to be contacted regarding the context of the business document.
Location	1	Location	The business document must specify a location.
PhysicalAddress	1	PhysicalAddress	The business document must provide a physical address for a party to the business transaction.
PartnerIdentification	1..n	PartnerIdentification	The business document must allow for the identity of one or more parties to the transaction.

## 4.8 ProductIdentification

### 4.8.1 ProductIdentification

The object provides the identifier(s) of a product.



**Figure 4-26 ProductIdentification**

Attribute	Type	Documentation
productName[0..1]	string	The name of the product.
revision[0..1]	string	Referenced the specified product revision.

Composition	Cardinality	Type	Documentation
ProductIdentificationChoice	1	ProductIdentificationChoice	

### 4.8.2 ProductIdentificationChoice

Composition	Cardinality	Type	Documentation
AlternativeIdentifier	1..n	AlternativeIdentifier	Identifies the specified code and the name of the organization that a code is utilized from.
GTIN	1	GTIN	Global Trade Identification Number (GTIN).

## 4.9 CodeList

### 4.9.1 Country

For representation of Country name RosettaNet has adopted ISO 3166-3; 1999.

Refer to the following web page to get the latest version of the standard:

<http://www.iso.ch/iso/en/prods-services/iso3166ma/02iso-3166-code-lists/index.html>

If you need more information about the ISO standard please contact ISO for more details. **CountrySubdivision**

For representation of a Countries subdivisions RosettaNet has adopted ISO 3166-3; 1999. Refer to the following web page to get the latest version of the standard:

<http://www.iso.ch/iso/en/prods-services/iso3166ma/02iso-3166-code-lists/index.html>

If you need more information about the ISO standard please contact ISO for more details. **Currency**

For representation of Currency codes RosettaNet has adopted ISO 4217; 1995. The British Standards Institution (BSI) is the ISO 4217 Maintenance Agency. Refer to the following web page to get the latest version of the standard:

<http://www.bsi-global.com/Technical+Information/Publications/Publications/tig90.xalter>. If you need more information about the ISO standard please contact ISO for more details.

### 4.9.4 Language

For representation of Language name RosettaNet has adopted ISO 639-2; 1998.

Refer to the following web page to get the latest version of the standard:

<http://www.loc.gov/standards/iso639-2/iso639jac.html>. If you need more

information about the ISO standard please contact ISO for more details.

### 4.9.5 DocumentType

A code identifying the business context of a document.

Instance	Documentation
APM	Applied Promotions.
ARA	Authorization Request Approval.
CAR	Certificate of Analysis Response.
CBN	Product batch number of customer.
CCN	Customs clearance number.
CFA	Failure Analysis - Request document that will accompany the product providing characteristics of the component failure.
CIN	Commercial Invoice.
CNM	Traditional credit note or memo.
COA	Certificate of Analysis.
CON	In a virtual sourcing relationship, a third party trading partner is supplying a part to a customer on behalf of another company that has taken the order for the customer. In this case a Customer Order Number is associated to the request for material that is sent to the virtual trading partners.
COS	Consumption Notice.
COT	Contract.
CRN	Unique consumption reference number identifying the product

	consumption issue i.e. one-to-one relationship with physical flow.
DEM	Traditional debit note or memo.
DEN	Delivery Note.
DIN	Discontinuation Notice.
DOR	Delivery Order.
DRN	Drawing Number.
DRR	Design Registration Request.
ECO	Engineering Change Order - The proprietary unique identification number that represents an engineering change order.
EDD	Export Declaration Document.
EIR	Engineering Information Request.
EOL	End of Life.
FUO	Sales order or transfer order fulfilling demand out of a facility (outbound shipment).
IDD	Import Declaration Document.
INV	Invoice.
LID	Location Identifier. Data for on-site work that have to be done on the machine (associated with preventive maintenance order).
MEN	Master Event Number.
MID	Machine Identifier. Data for on-site work that have to be done on the machine (associated with preventive maintenance order).
MON	Model Number.
NTS	Notes.
OCL	The unique identifier assigned by the OEM for a warranty claim.
OGA	Other governmental agency issued document.
OPO	The unique identifier assigned by the OEM for a part order.
OPR	The unique identifier assigned by the OEM for a part return.
PCN	Product/Process Change.
PFA	Failure Analysis - Request document that will accompany the product providing characteristics of the product failure.
PII	Refers to previously issued invoice.
PLS	Unique number that identifies packing form prior to shipment.
POI	Purchase Order IN.
PON	Production order number for material release.
POO	Purchase Order OUT.
PRC	Product Catalog.
PSI	Refers to previously issued self-billing invoice.
PUO	Purchase Order.
QUO	Quote.
REC	Document identifying the receipt of materials or products into a facility against a purchase order or transfer order (inbound shipment).
REN	Release Number.
REO	Purchase order or transfer order replenishing inventory into a facility (inbound shipment).
REQ	Requisition.
RMA	Returned Material Authorization.
RPO	Purchase order for materials or product returned to and reworked by a supplier.
RTA	Remittance Advice - Remittance details.
SAO	Sales Order.
SBC	Credit Memo used in self-billing scenario.



SBD	Debit Memo used in self-billing scenario.
SBI	Invoice in self billing scenario.
SBN	Product batch number of supplier.
SCA	Similar to contracts - Contains the quantity of an article that is to be ordered from a vendor and the price for article or service that is to be procured.
SEN	Serial Number.
SEO	A document that gives a repair provider the necessary authorization to repair or upgrade a product either at the customer site or at the repair provider's site.
SHD	Shipping Document.
SNC	Shipset Number on Code List.
SPC	The unique identifier assigned by the ASP for a warranty claim.
SPN	Spec Number.
SPO	The unique identifier assigned by the ASP for a part order.
SPR	The unique identifier assigned by the ASP for a part return.
SPW	The unique identifier assigned by the ASP to reference a work order.
SRI	A document that contains the shipping reference number which allows the product to be tracked within the outsourced logistic providers network.
SWT	Switch Authorization.
TCS	Terms and Conditions.
TRO	Order which results in materials or products being moved from one facility to another (outbound shipment and inbound shipment).
WAB	Waybill.
WAC	Denotes a warranty claim.
WOO	Work Order.

#### 4.9.6 MimeTypeQualifier

The MIME type as defined by IANA.

Please refer to <http://www.iana.org/assignments/media-types/> for a list of types.

Instance	Documentation
application/activemessage	[Shapiro]
application/andrew-inset	[Borenstein]
application/applefile	[Faltstrom]
application/atomicmail	[Borenstein]
application/batch-SMTP	[RFC2442]
application/beep+xml	[RFC3080]
application/cals-1840	[RFC1895]
application/cnrm+xml	[RFCCNRP]
application/commonground	[Glazer]
application/cpl+xml	
application/cybercash	[Eastlake]
application/dca-rft	[Campbell]
application/dec-dx	[Campbell]
application/dicom	[RFC3240]
application/dvcs	[RFC3029]
application/EDI-Consent	[RFC1767]

application/EDIFACT	[RFC1767]
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application/index.response	[RFC2652]
application/index.vnd	[RFC2652]
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application/ipp	[RFC2910]
application/isup	[RFC3204]
application/mac-binhex40	[Faltstrom]
application/macwriteii	[Lindner]
application/marc	[RFC2220]
application/mathematica	[Van Nostern]
application/msword	[Lindner]
application/news-message-id	[RFC1036, Spencer]
application/news-transmission	[RFC1036, Spencer]
application/ocsp-request	[RFC2560]
application/ocsp-response	[RFC2560]
application/octet-stream	[RFC2045, RFC2046]
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application/ogg	[RFC-walleij-ogg-mediatype-08.txt]
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application/pdf	[Lindner]
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application/pgp-keys	[RFC3156]
application/pgp-signature	[RFC3156]
application/pkcs10	[RFC2311]
application/pkcs7-mime	[RFC2311]
application/pkcs7-signature	[RFC2311]
application/pkix-cert	[RFC2585]
application/pkixcmp	[RFC2510]
application/pkix-crl	[RFC2585]
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application/prs.cww	[Rungchavalnont]
application/prs.nprend	[Doggett]
application/prs.plucker	[Janssen]
application/qsig	[RFC3204]
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application/set-registration	[Korver]
application/set-registration-initiation	[Korver]
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application/sgml-open-catalog	[Grosso]
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application/slate	[Crowley]
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application/timestamp-reply	[RFC3161]
application/tve-trigger	[Welsh]
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application/vnd.anser-web-funds-transfer-initiation	[Mori]
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application/vnd.epson.esf	[Hoshina]
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application/vnd.epson.quickanime	[Gu]
application/vnd.epson.salt	[Nagatomo]
application/vnd.epson.ssf	[Hoshina]
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application/vnd.fujitsu.oasys	[Togashi]
application/vnd.fujitsu.oasys2	[Togashi]
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application/vnd.fujitsu.oasysprs	[Ogita]
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application/vnd.kde.kformula	[Faure]
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application/vnd.kde.kontour	[Faure]
application/vnd.kde.kpresenter	[Faure]
application/vnd.kde.kspread	[Faure]
application/vnd.kde.kword	[Faure]
application/vnd.kenameaapp	[DiGiorgio-Haag]
application/vnd.koan	[Cole]
application/vnd.liberty-request+xml	[McDowell]
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application/vnd.ms-sign	[Borcherding]
application/vnd.ms-lrm	[Ledoux]
application/vnd.ms-powerpoint	[Gill]
application/vnd.ms-project	[Gill]
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image/png	[Randers-Pehrson]
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image/prs.pti	[Laun]
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image/tiff-fx	[RFC3250] Tag Image File Format Fax eXtended
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message/disposition-notification	[RFC2298]
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message/http	[RFC2616]
message/news	[RFC 1036, H.Spencer]
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message/rfc822	[RFC2045,RFC2046]
message/s-http	[RFC2660]
message/sip	[RFC3261]
message/sipfrag	[RFC3420]
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multipart/parallel	[RFC2045,RFC2046]
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multipart/signed	[RFC1847]
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text/directory	[RFC2425]
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text/sgml	[RFC1874]

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video/DV	[RFC3189]
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video/H263	
video/H263-1998	
video/H263-2000	
video/JPEG	
video/MP1S	
video/MP2P	
video/MP2T	
video/MP4V-ES	[RFC3016]
video/mpeg	[RFC2045,RFC2046]
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video/vnd.vivo	[Wolfe]

### 4.9.7 UnitOfMeasure

Code identifying a product unit of measure.

Instance	Documentation
10P	10-pack.
1BF	100 Board Feet.
1FC	20 Foot Container.
1GR	Gram/Cubic Centimeter.
1GT	10,000 Gallon Tankcar.
1KB	25 Kilogram Bulk Bag.
1KD	10 Kilogram Drum.
1KP	1000-pack.
1M2	1/Square Meter (1/M2).
1PA	20-Pack.
1PB	50 Pound Bag.
1PD	100 Pound Drum.
1PM	1/minute (1/min).
22S	Square Millimeter/Second (mm <sup>2</sup> /s).
2FC	40 Foot Container.
2GR	Gram/square meter.
2GT	20,000 Gallon Tankcar.
2KB	300 Kilogram Bulk Bag.
2KD	15 Kilogram Drum.
2PA	100-Pack.
3GR	Grams Per 100 Centimeters.
3KB	500 Kilogram Bulk Bag.
3KD	55 Gallon Drum.
3MH	Cubic Millimeters/Hour (mm <sup>3</sup> /hour).
4GR	Grams Per 100 Grams.
4KD	115 Kilogram Drum.
50P	50-pack.
5GR	Grams Per Cubic Centimeter.
6GR	Grams Per Square Centimeter.
7GR	Grams Per Square Meter.
ABC	Absorbance per centimeter (Absorbance per cm).
ABU	Absorbance per Unit (absorbance per unit).
ACC	Atoms per Cubic Centimeters (atoms per cu cm).
ACR	Acre.
ACS	Acidic strength/concentration.
ACT	Actual Pounds.
ACU	Activity unit (Activ.unit).
ALU	Aluminum Pounds Only.
AM1	Ampoule.
AMN	Ångstroms/Minute (Ångst/min).
AMP	Ampere.
ANG	Angstrom (Å).
APB	Atomic Parts per Billion (atomic ppb).
APG	API Specific Gravity (API Grav).
APM	Atomic Parts per Million (atomic ppm).
APT	Atomic Parts per Trillion (atomic ppt).

APU	APHA Units (apha).
ASC	Atoms per Square Centimeters (atoms per sq cm).
ASM	Angstrom.
ASY	Assembly (ASY).
ATG	Atmospheric gauge.
ATM	Atmosphere absolute.
ATP	Atomic %.
ATY	Activity.
BAB	Base Box.
BAC	Batch.
BAE	Bale.
BAG	Bag.
BAL	Ball.
BAN	Band.
BAP	Batting Pound.
BAR	Bar.
BAS	Basket.
BAT	Batt.
BAW	Base Weight.
BEA	Beam.
BEC	Becquerel/kilogram.
BEL	Belt.
BHP	Brake HP.
BIL	Billet.
BIN	Bin.
BIT	Bit.
BKC	Bulk Car Load.
BLN	Balance.
BLO	Block.
BOA	Board.
BOF	Board Feet.
BOL	Bolt.
BOT	Bottle.
BOX	Box.
BRB	Bar absolute.
BRD	Barrels Per Day.
BRE	Barrel.
BRI	Barrel (Imperial).
BRM	Barrels Per Minute.
BTF	British Thermal Units (BTUs) Per Cubic Foot.
BTP	British Thermal Units (BTUs) Per Pound.
BTU	British Thermal Unit (BTU).
BUB	Bubbler.
BUC	Bucket.
BUD	Bushel, Dry Imperial.
BUK	Bunks.
BUL	Bulk.
BUN	Bundle.
BUP	Bulk Pack.
BUS	Bushel.

BYT	Bytes.
C0W	Counts per Wafer (Counts/wf).
C3M	Cubic centimeter per minute (cm <sup>3</sup> /minute).
CAA	Carat.
CAB	Carboy.
CAC	Card.
CAD	Candela.
CAG	Cartridge.
CAK	Cask.
CAL	Calorie.
CAN	Can.
CAO	Carload.
CAR	Car.
CAS	Case.
CAT	Canister.
CAW	Catchweight.
CC2	Centipoises per hour per square centimeters (cps per hr per sq cm).
CCC	Counts per Square Centimeters (Counts/cm <sup>2</sup> ).
CD3	Cubic decimeter (Cubic dec).
CEL	Cell.
CEM	Centimeter.
CEP	Centipoises (CPS).
CET	Centiliter.
CGM	Centigram.
CHA	Chains (Land Survey).
CHE	Chest.
CM2	Square centimeter (cm <sup>2</sup> ).
CMH	Centimeter/hour (cm/h).
CML	Colony/Milliliter (col/ml).
CMS	Centimeter/Second (cm/s).
CNN	Connector.
COG	Coil Group.
COI	Coil.
COL	Coulomb.
COM	Composite Product Pounds (Total Weight).
CON	Cone.
COT	Container.
COV	Cover.
CRA	Crate.
CRT	Carton.
CSE	Cassette.
CST	Centistokes.
CUB	Cubic centimeter.
CUC	Cubic centimeter/second.
CUF	Cubic Foot.
CUI	Cubic inch.
CUM	Cubic meter.
CUP	Cup.
CUY	Cubic yard.
CYC	Cycles.

CYL	Cylinder.
DAL	Dalton units (dalton).
DAY	Day.
DCB	Decibels.
DCG	Decagram.
DCL	Deciliter.
DCM	Defects per Square Centimeters (Defects/cm <sup>2</sup> ).
DE1	Defects.
DE2	Degrees in Angles.
DE3	Degree.
DEA	Deal.
DEC	Decimeter.
DEF	Degree Fahrenheit.
DEG	Degree Celsius.
DEP	Dep. Factor.
DFW	Defects per Wafer (Defects/Wafer).
DGM	Decigram.
DIE	Die.
DIL	Display.
DIP	Dispenser.
DNC	Dynes per centimeter (Dynes per cm).
DOZ	Dozen.
DPM	Parts per Million per Day (ppm per day).
DRA	Dram.
DRU	Drum.
DRY	Dry Pounds.
EAC	Each.
ELE	Electrical Capacitance.
EML	Enzyme Units/Milliliter (Enzyme/ml).
ENU	Enzyme Units (Enzy.Units).
EQ2	Milliequivalent per 30 Kg (mequ/30Kg).
EQG	Milliequivalent per gram (milliequivalent per g).
EQK	Milliequivalent per Kilogram (mequ/Kg).
EQM	Milliequivalent per Millimeter (milliequivalent per mm).
FAR	Farads.
FFA	Femtofarad.
FIN	1/32 inch.
FLO	Fluid Ounce.
FOI	Fluid Ounce (Imperial).
FOO	Foot.
FOU	Fluid Ounce US.
FPS	Feet per second (Feet/s).
FRH	Sales FT3 at 60°F per hour (FTR/hour).
FRM	Sales FT3 at 60°F per minute (FTR/min).
FTR	Sales FT3 at 60°F, 14.7 psia (SFT3_60F_S).
FTS	Sales FT3 at 70°F, 14.7 psia (SFT3_70F_S).
FTT	1000 FT3 at 60°F, 14.7 psia (KFT3_60F_S).
FTU	1000 FT3 at 70°F, 14.7 psia (KFT3_70F_S).
FUU	Fuel Usage (Gallons).
G2S	Gram square per second (g <sup>2</sup> /s).

GAI	Gram act. ingr. (g act.ing).
GAL	Gallon.
GAS	Gage Systems.
GAU	Gram Gold.
GCL	Gardner Color.
GEG	Keim/Gramm (keim/g).
GEQ	Gram per Equivalent (g/Eq).
GGM	Gram per gram mole (g/gmole).
GHG	Gram per Hectogram (g/hg).
GIH	Gigahertz.
GIJ	Gigajoules.
GIL	Gill (Imperial).
GM4	Gram per 100 Milliliters (g/100ml).
GME	Gram per Mole Equivalent (g/mole Eq).
GMO	Gram per Mol (g/mol).
GNL	Gram act.Ingrd per Liter (gai/liter).
GOB	Gross Barrels.
GOG	Gross Gallons.
GOH	Gigaohm (GOhm).
GOK	Gross Kilogram.
GOT	Gross Ton.
GOY	Gross Yard.
GPN	US Gallon per minute (gpm US).
GRA	Gram.
GRG	Great Gross (Dozen Gross).
GRK	Grams Per Kilogram.
GRL	Grams Per Liter.
GRM	Grams Per Milliliter.
GRN	Grain.
GRO	Gross.
GRP	Group.
HAG	Half Gallon.
HAH	Half Hour.
HAL	Half Liter.
HAN	Hank.
HEA	Heat lots.
HEC	Hectare.
HEL	Hectoliter.
HEP	Hectopascal.
HER	Hertz.
HGM	Hegman.
HEN	Henry.
HOS	Hours.
HOU	Hour.
HUA	Hundredth of a Carat.
HUB	Hundred Boxes.
HUC	Hundred Count.
HUS	Hundred Sheets.
HZM	Hertz per Minute (Hertz per min).
IH2	Inches of Water Gauge (inH2O-g).



IHG	Inches of Mercury Gauge (inHg-g).
ILB	Inch pounds (in.lb).
IMG	Imperial Gallons.
INC	Inch.
IPS	Inch per second (inch / sec).
JAR	Jar.
JKG	Joule/Kilogram (J/kg).
JMO	Joule/Mol (J/mol).
JOI	Joint.
JOU	Joule.
KAI	Kilogram act. Ingrd. (kg ac.ing.).
KAK	kg act.ingrd. / kg (kai/kg).
KBY	Kilobyte.
KCM	Kilogram per cm <sup>2</sup> gauge (kg/cm <sup>2</sup> -g).
KD3	Kilogram per Cubic Decimeter (kg/dm <sup>3</sup> ).
KEG	Keg.
KEL	Kelvin.
KGE	Container Fill Weight in Kg/Ea.
KGH	Kilogram per Hour (kg/h).
KGL	Kilograms per Liter (kg/L).
KGM	Kilogram/Mol (kg/mol).
KGS	Kilogram per Second (kg/s).
KHO	Kilometer/hour.
KIC	Kilogram per cubic meter.
KIE	Kilometer.
KIG	Kilogram.
KIH	Kilohertz.
KIK	Kilobecquerel/Kilogram.
KIL	Kiloampere.
KIM	Kilogram/square meter.
KIO	Kiloohm.
KIS	Kilogramm pro Sekunde.
KIT	Kit.
KIV	Kilovolt.
KIW	Kilowatt.
KJK	Kilojoule per kilogram (KJ/kg).
KJL	Kilojoule.
KJM	Kilojoule/Mol (KJ/mol).
KKG	Kilogram/Kilogram.
KMK	Cubic meter/Cubic meter (m <sup>3</sup> /m <sup>3</sup> ).
KMN	Kelvin per Minute (K/min).
KMS	Kelvin per Second (K/s).
KNM	Kilonewton per square meter (kN/m <sup>2</sup> ).
KNT	Kilonewton (ND).
KPA	Kilopascal (kPa).
KRU	Kreb Unit.
KTN	Kilotonne (kt).
KUD	Kubikdezimeter.
KUM	Kubikmeter pro Sekunde.
KVA	Kilovoltampere (kVA).

KWH	Kilowatt-hour.
KWR	Kilovolt ampere reactive hours (KVAH reac.).
LBH	US Pound per Hour (lb/hour).
LBM	US Pound per minute (lb/min).
LG2	Liter per Gram per Centimeter (l/g/cm).
LGC	Liters per Gram-Centimeters (l/g-cm).
LHK	Liter per 100 km (l/100 km).
LIF	Lifts.
LIM	Link.
LIQ	Liquid Pounds.
LIT	Liter.
LMI	Liter per Minute (l/min).
LMS	Liter per Molsecond (l/mol.s).
LOA	Load.
LOT	Lot.
LPD	Light Point Defects per Wafer (LPD/Wafer).
LPH	Liter per hour (l/hr).
LUG	Lug.
M15	Micron per 15 Square Millimeters (mu per 15 sq mm).
M20	Micron per 20 Square Millimeters (mu per 20 sq mm).
M25	Micron per 25 Square Millimeters (mu per 25 sq mm).
M26	Micron per 26 by 8 Millimeters (mu per 26 by 8 mm).
M2G	Meters square per gram (m sq per gram).
M3A	Sales m3 at 15 °C, 1 atmos (Sm3_15C_S).
M3B	Sales m3 at 21 °C, 1 atmos (Sm3_21C_S).
M3C	Sales m3 at 10 °C, 1 atmos (Sm3_10C_S).
M3D	Sales m3 at 43 °C, 1 bar (Sm3_43C_D).
M3E	Sales m3 at 9 °C, 1 bar (Sm3_9C_D).
M3F	Sales m3 at 15 °C, 1 bar (Sm3_15C_D).
M3G	Sales m3 at 27 °C, 1 atmos (Sm3_27C_S).
M3H	Cubic Meter per Hour (m3/h).
M3J	Sales m3 at 35 °C, 1 atmos (Sm3_35C_S).
M3K	Cubic Meter/Kilogram (m3/Kg).
M3M	Milliliter per Cubic Meter (ml/m3).
M3N	Mol per Cubic Meter (Mol/m3).
MAM	Milliamps/mm.
MAT	Mat.
MBY	Megabyte.
MBZ	Meterbar per Second (m.bar/s).
MC2	Millisecond per Centimeter (mS/cm).
MCA	Microampere (µA).
MCG	Microgram.
MCH	Micromhos (µmhos).
MCK	Microcuries per Kilogram (µci/kg).
MCL	Microcuries per Gaseous Liter (µc/l).
MCM	Milligrams Per Cubic Meter.
MCN	Metal Can.
MCP	Manifolded Cylinder Pack.
MCR	Micron.
MEG	Megagram.

MEH	Megahertz.
MEJ	Megajoule (MJ).
MEP	Megapascal.
MET	Meter.
MEW	Megawatt.
MFD	Microfarad ( $\mu$ F).
MGA	Milligram per Amp (mg per amp).
MGF	Milligram per Square Centimeter (mg/cm <sup>2</sup> ).
MGG	Milligram per Gram (mg/g).
MGL	Microgram per Liter ( $\mu$ g/l).
MGM	Milligram.
MGO	Megohm (M $\Omega$ ).
MGR	Micrograms per Gram ( $\mu$ g/g).
MGS	Milligram per Second (mg per sec).
MH1	Millimeter per Hour (mm/h).
MHC	Micromhos per Centimeter ( $\mu$ mhos/cm).
MHR	Meter per Hour (m/h).
MHV	Megavolt.
MIB	Million BTU's.
MIC	Mikrogram/cubic meter.
MIG	Micrograms Per Cubic Meter.
MIL	Mile.
MIM	Micrometer.
MIN	Minute.
MIP	Millipascal seconds.
MIS	Microsecond.
MIT	Miter.
MIV	Millivolt.
MIW	Milliwatt.
MJM	Wobbe Number (MJ/m <sup>3</sup> ).
MJO	Millijoule.
MKG	Milligrams of KOH per Gram (mg KOH per g).
MKL	Millimol per Gram (mmol/g).
ML1	Milliliter per Liter (ml/l).
ML2	Milliliter per Liter (ml/l).
ML3	Mol per Liter (Mol/Liter).
ML4	Millimol per Liter (Millimol/l).
MLA	Milliampere.
MLB	Millibar.
MLC	Milligram/cubic meter.
MLG	Milliliter per Gallon (ml per gal).
MLI	Milliliter.
MLK	Milligram/kilogram.
MLL	Milligram/Liter.
MLM	Mole per Mole (mole/mole).
MLP	Mole Percent (% mole).
MLR	Microliter ( $\mu$ l).
MLS	Miles.
MLW	Milliliter act. Ingr. (ml act.in.).
MM3	Cubic Millimeter (mm <sup>3</sup> ).

MMA	Millimeter per Year (mm/a).
MME	Millimeter.
MMG	Millimol/gram (mmol/g).
MMH	Millimeter H2O.
MMK	Millimol/kilogram.
MMM	0.000001 meter (1 millionth of a meter). (Micrometer/Micron).
MMN	Meter per Minute (m/min).
MMO	Millimol.
MMS	Millimeter per Second (mm/s).
MNM	Millinewton per meter (mN/m).
MNT	Meganewton (MN).
MOK	Mol/kilogram.
MOL	Mol.
MON	Month.
MPB	Mass parts per billion (ppb(m)).
MPG	Miles per Gallon (US) (Mi/Gal(US)).
MPH	Megagrams Per Hour.
MPM	Mass Parts per Million (ppm(m)).
MPT	Mass Parts per Trillion (ppt(m)).
MPZ	Meterpascal per Second (m.Pa/s).
MQG	Mircoequivalent per Gram (microeq/g).
MRF	Millifarad (mF).
MS1	MilliSiemen per Centimeter (mS/cm).
MS2	Meter per Second Squared (m/s <sup>2</sup> ).
MS3	Microsiemens per Centimeter (μS/cm).
MSC	Millisecond.
MSM	Milligrams Per Square Meter.
MTA	Millitesla.
MTQ	Meter pro Quadratsekunde.
MTR	Meter (m).
MTS	Meters per second.
MUL	Multichip - When 2 or more dies (chips) are merged into one package.
MVA	Megavoltampere (MVA).
MVS	Millivolts.
MVT	Millivolt.
MWH	Megawatt Hours (mwh).
MWR	Megavolt Ampere Reactive Hours (MVAH reac.).
MWT	Molecular Weight (mW).
MYS	Micro Siemens (mic. Siem.).
N2M	Newton/Square millimeter (N/mm <sup>2</sup> ).
NAA	Nanoamps.
NAM	Nanometer.
NAS	Nanosecond.
NEB	Net Barrels.
NEG	Net Gallons.
NEI	Net Imperial Gallons.
NEL	Net Liters.
NEW	Newton.
NM2	Newton per Square Meter (N/m <sup>2</sup> ).
NM3	Normal m3 at 0°C, 1 atmos (Normal m3).

NMH	Newton per Hour (N/h).
NMM	Newton per Millimeter (N/mm).
NMR	Normal m3 per Hour (Nm3/h).
NOL	Normality.
NPK	Nowpac Container (Nowpac).
NRG	Bar Gauge.
NRU	Nanofarad (nF).
NTU	Nephelometric Turbidity Units (NTU).
NTY	Equivalents per Liter (equ/l).
NUM	Numbers.
NWM	Newton per Meter (N/m).
NXM	Newton per 25 mm (N/25mm).
O2P	Percent Oxygen (% Oxygen).
OCT	Ohm/ct.
OHC	Ohm-Centimeter (ohm cm).
OHM	Ohm.
OMM	Ohm/mm.
ONE	One.
OPH	Operating hour (Oper. Hour).
OSQ	Ohm/sq.
OTP	One Thousand Pieces.
OUN	Ounce.
OVI	Ohm/via.
OZG	Ounce per Gallon (oz per gal).
PAC	Parcel.
PAD	Pad.
PAG	Package.
PAI	Pail.
PAK	Pack (PAK).
PAL	Pallet.
PAN	Panel.
PAR	Pair.
PAS	Pascal.
PAT	Packet.
PBA	PPBA Silicon (ppba Si).
PBW	Parts Per Billion by Weight (ppbw).
PC2	Parts per Square Centimeters (part per sq cm).
PCA	Percent Active (% Active).
PCL	Picocuries per Liter (pCi/l).
PEC	Percent.
PEG	Percentage.
PEH	Percent Per 1000 Hours.
PEN	Pennyweight.
PER	Per Hundred Pieces.
PEW	Percent Weight.
PF3	Per Cubic Foot (per cu ft).
PF4	Particles per Cubic Feet (particles per cu ft).
PFA	Percent Failed Area (Failed Area %).
PFR	Picofarad.
PH	PH Factor (pH).

PI2	Parts per Square Inch (part per sq in).
PID	Pint U.S. Dry.
PIE	Piece.
PIL	Pint - US liquid.
PL1	Parts per Liter (parts per l).
PL2	Parts per Milliliter (parts per ml).
PL3	Part per Millilitre (Part/ml).
PLA	Plate.
PLI	Pounds per Linear Inch (lb/Lin. In).
PLL	Pallet (Lift).
PLR	Per Liter.
PLT	Palette.
PLU	Pallet/Unit Load.
PMA	Percent Mass (%(m)).
PMI	Per Mille (%0).
PML	Particles per Milliliter (particles/mL).
PMO	Per Mille mass (%0(mass)).
PMP	Parts Per Million Platinum (ppm Pt).
PMV	Parts Per Million (weight/Vol) (ppm (w/v)).
PMW	Parts Per Million by Weight (ppmw).
PNJ	Particles per Injection (particles per inj).
PNT	Points.
POF	Pounds Per Foot.
POG	Pounds Per Gallon.
PON	Pound.
POP	Pounds Per Piece of Product.
POR	Pores.
POS	Pounds Per 1000 Square Feet.
POT	Pounds Per Thousand.
PP3	Parts per Million mole (ppm mole).
PP4	Parts per Billion Mole (ppb mole).
PPB	Parts per billion (US).
PPF	Parts per Ft3 (Parts/Ft3).
PPH	Parts Per Hundred (pph).
PPM	Parts per million.
PPP	Pounds Per Pound of Product.
PPT	Parts per Trillion (ppt).
PRS	Number of Persons.
PSA	Pounds per Square Inch Absolute.
PSC	Picosecond.
PSG	Pound per Square Inch Gauge (psi gauge).
PSI	PSI Unit (PSI).
PSS	Pascal second.
PSV	Poise.
PTL	Particles per Liter (Part/Liter).
PWF	Particles per Wafer (particles/wf).
QML	Kilomol (kmol).
QUA	Quart - US liquid.
RAC	Rack.
REA	Ream of 500 Sheets.

REE	Reel.
RIN	Ring.
RLU	Relative Light Unit (RLU).
ROD	Rod.
ROL	Roll.
RPM	Revolutions per Minute (Revs/min).
SAC	Sack.
SBB	Super Bulk Bag.
SCL	Scales.
SEC	Second.
SET	Set.
SHE	Sheet.
SHI	Shipment.
SHM	Sheet - Metric measure.
SHO	Shot.
SID	Disk (Disc).
SIE	Siemens per Meter (Siemens/m).
SKE	Skein.
SKI	Skid.
SLE	Sleeve.
SLI	Slip Sheet.
SMI	Square mile.
SMM	Square millimeter.
SPO	Spool.
SQF	Square foot.
SQI	Square inch.
SQK	Square kilometer.
SQM	Square meter.
SQS	Square meter/second.
SQU	Square.
SQY	Square Yard.
STI	Stick.
STM	Statute Mile.
STP	Steps.
STR	Strip.
STU	Stabilizer Units (SU).
SVU	Say Bolt Viscosity Units (SVU).
TAB	Tablet.
TAN	Tank.
TAR	Target pieces (target).
TAT	Tank Truck.
TES	Tesla.
THO	Thousand.
TM3	1/Cubic Meter (1/m <sup>3</sup> ).
TNN	Tonne.
TOM	Ton per Cubic Meter (t/m <sup>3</sup> ).
TON	Ton.
TOR	Torr.
TOT	Tote.
TPT	Pass Test (Pass).

TRA	Train.
TRF	Track Foot.
TRL	Trailer.
TRO	Troy.
TRU	Truckload.
TRY	Tray.
TRZ	Troy OZ.
TUB	Tube.
ULU	Unitless Unit of Measure.
UNT	Unit.
USG	US gallon.
USP	US pound.
UST	US ton.
VAL	VO mat. (Value).
VAP	Voltampere (VA).
VHN	Vickers Micro-Hardness (VHN10).
VIA	Vial.
VMP	Molar %.
VOL	Volt.
VPB	Volume Parts per Billion (ppb(V)).
VPC	Percent Volume (%(V)).
VPM	Volume Parts per Million (ppm(V)).
VPR	Per Mille Volume (%O(V)).
VPT	Volume parts per Trillion (ppt(V)).
VTa	Volts (Alternating Current).
VTd	Volts (Direct Current).
VTM	Volts Per Meter.
WAF	Wafer.
WAR	Watt.
WEE	Week.
WPT	Parts Per Trillion by Weight (pptw).
WRA	Wrap.
YAR	Yard.
YEA	Year.

#### 4.9.8 ProcessRoleIdentifier

Describes the role of the partner in the business process. A partner will fulfill at least one or more roles during the business process.

Instance	Documentation
ADM	Administered by - The party who is the administrative authority of an account.
ALT	Alternate approval by - The party who has approved a request in the event the approver is not able to respond.
APP	Approval by - The party who has approved a request.
AUT	Authorized By - The party who has authorized a request.
BIF	Bill from - The party that will issue the invoice.
BIT	Bill to - The party that will pay the invoice.
CBK	Customs Broker - CustomsBroker This object represents the party that declare the shipment on behalf of



	declarant.
CLF	Collect From - To enable the buyer to specify the location of where products not supplied directly by the seller/installer may be collected.
CLM	Claimed By - This object represents the claimant.
CNC	Cancellation party - The party who is cancelling the shipping order.
COR	Change originated by - The party who originates a proposed change.
COW	Change owned by - The party who owns or who is assigned responsibility for a proposed change.
CRA	Credit applicant - The party who is applying for credit.
CRE	Created by - The party responsible for creating a process or task.
CSP	Contract Service Provider.
CWN	contractOwner - The party who is the owner of the contract. For example, in the direct business, the buyer is the contract owner. In the distribution business, the buyer is the distributor and the contract owner is the reseller.
DCE	DesignCustomerApplicationEngineer. The demand customer's Field Application Engineer.
DCT	Declared To - This object represents the party that the declaration goes to.
DCU	DesignCustomer. The owner of the product for which the design has been created.
DIS	Distributed by - The party who supplies products to retailers.
DLR	Declared By - This object represents the party that declare the shipment.
DST	Distributed To - This object represents the party to send information to.
FCP	Forecast Partner - The collection of business properties that describes the partner types for a forecast.
FIA	From Install At - The collection of sender business properties that describes a business partners' identity, their contact information, where they are physically located and their function in a supply chain.
FIN	Financed by - The party who is the financier.
FNB	Founded by - The party who performs the act, process, or art of casting metals.
FOR	Forwarded to - The party to whom a business document has been forwarded.
IMB	Imported By - The party responsible for importing the product.
INL	Inventory location - The party where the inventory product entry is located.
INO	Inventory owner - The party that owns the inventory product entry.
ITF	In transit from - The party sending the product quantity in a product location transfer.
ITL	installAt - The partner and/or location to which the product must be set up for use or service.
ITT	In transit to - The party receiving the product quantity in a product location transfer.
LGP	Logistics Provided By - The party who handles the details of an operation.
MFG	Manufactured by - The party who creates, processes or produces goods especially in large quantities and by means of industrial machines.
OWN	Owned by - The party who owns a process.
PAE	ProductProviderFieldApplicationEngineer. The product provider Field

	Application Engineer.
PCW	Primary Contract With - The primary party with whom a contract is formed.
PNB	Planning By - The party who establishes goals, policies or procedures.
PSR	ProductProviderSalesRepresentative. The product provider sales representative.
PUR	Purchased by - The party who is a purchaser of a product.
REA	Requested approval by - The party who has been selected to approve a request.
REC	Received by - The party who has received a product shipment.
REQ	Requested by - The party who has initiated a request.
RES	Respond to - The party to whom a responding business document must be sent when it is not equal to the partner specified in the document header.
RET	Return by - The party responsible for either carrying or forwarding the returned product.
REV	Reviewed by - The party responsible for reviewing a business document.
RFR	receivedFrom - The partner and/or location from where the product was shipped.
RLS	Released By - This object represents the party that releases the goods.
RMT	remitTo - The partner to which payment for a business document is sent.
RPB	Repaired By - The collection of business properties used to identify the business partner responsible for the repair or rework of a product.
RQT	Refer Quote To - The partner to whom a quote request is being referred.
RSF	Requested Ship From - The party where the product is requested to be shipped from.
RTT	ReturnTo - The partner and/or location to which the returned product must be delivered.
SBF	Self-billing from - The party who initiates the billing in self-billing scenario.
SBT	Self-billing to - The party whom the invoice is addressed to.
SCB	Subcontracted By - The party who is contracted to perform part or all of another party's contract.
SCP	Shipping charges paid by - The party responsible for administering payment of the shipping charges.
SCW	Secondary Contract With - The subsequent party(ies) with whom a contract is formed.
SHF	Ship From - The collection of business properties used to identify the business partner initiating a shipment or transaction.
SHT	Ship To - The partner and/or location to which the product must be delivered.
SLD	Sold to - The party to whom a product has been sold.
SOB	Sold By - The seller involved in a business transaction.
SPL	Supplied by - The party who supplies an item, part or assembly.
SPS	Service Provider Site - Identification for the location of the ASP site that is ordering the replacement parts and/or performing the repair.
SRT	Submit returns to - The party to whom product returns are to be submitted.
STR	Stored By - This object represents the party that stores the goods.

SVA	ShipVia - The partner and/or location through which the product must be shipped, such as the "cross dock" at a shipping hub. It must not be specified for the last leg, since this would be the same as the final destination specified in the ShipmentInformation/shipTo.
TFR	Transfer From - The party responsible for making the payment (Payer).
TIA	To Install At - The collection of receiver business properties that describes business partners' identity, their contact information, where they are physically located and their function in a supply chain.
TMT	Transfer Manufacturing To - The movement of the manufacturing process to another site.
TRA	Transported by - The party responsible for either carrying or forwarding the product.
TSB	Tested By - The collection of business properties used to identify the specific location and resources used to conduct a defined cycle or steps or measurements required to confirm a result or event.
TTR	Transfer To - The party who is receiving the payment (payee).
ULR	Ultimate recipient - The party who ultimately receives the shipment, when an intermediate party takes responsibility for payment and final delivery.
USE	Used by - The party who is the end user of the product.
UST	Unstuffed By - This object represents the party that unstuffs the goods.
WHB	Warehoused By - The party who stocks or stores products.

## 5. System Structure

### 5.1 BusinessProcessIdentifier

A Business Process Identifier to uniquely define the TPIR-PIP 'role' within a Business Scenario at a company or MNC level. The identifier **MUST** be composed of alphanumeric characters only and its length **MUST** be between one and twelve characters.

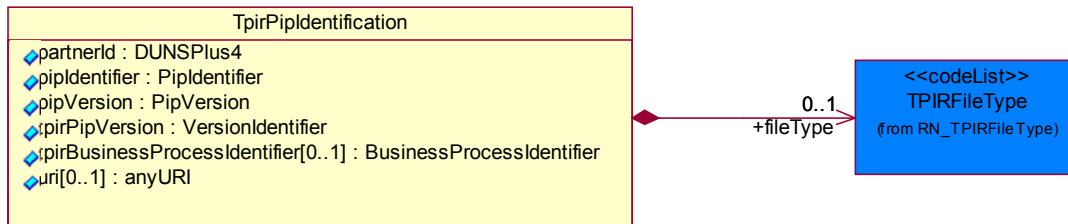


Figure 5-1 BusinessProcessIdentifier

Attribute	Type	Documentation
pattern		[0-9a-zA-Z]{1,12}

### 5.2 BusinessServiceInformation

The object allows the specification of the business service utilized within the partner company. This may or may not be the same as the information sent by the RNIF.

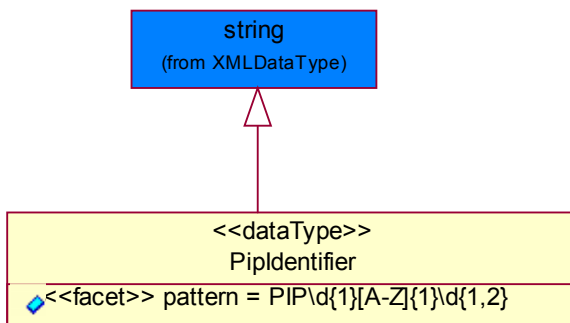


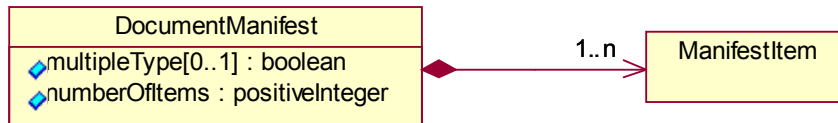
Figure 5-2 BusinessServiceInformation

Attribute	Type	Documentation
actionName	string	The name of Action. For RosettaNet usually any of Request/Confirm/Notify/Query/Response.
serviceName	string	The name of the Business Activity with the "Request/Confirm" part removed. E.g., for the Activity "Request Purchase Order"==> "Purchase Order".
processIdentifier	string	The name of the PIP e.g. Notify of Forecast Reply.
processReference[0..1]	string	The URN for the PIP that includes

		Cluster/Segment/Process pattern used to identify the interface process (such as PIP3A4)
processState[0..1]	string	The business process (or service) state of the sender of a document. When a service receives this document, the receiver may use the state as a precondition.

### 5.3 ContractInformation

A block of information used to correlate a contract in an executing choreography.

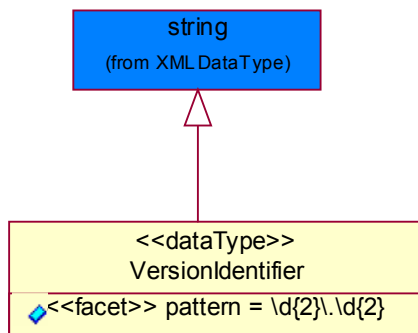


**Figure 5-3 ContractInformation**

Attribute	Type	Documentation
contractIdentifier[0..1]	string	Unique identification of a contract between the Sender and the Receiver
contractType[0..1]	string	The type of the contract: an attribute describing the type of the ContractIdentification. Valid values are URI, URN, ebXMLCPA, or other values defined by partners.

## 5.4 CorrelationInformation

A block of information used to correlate a requesting document to a responding document and to the contract in an executing choreography.

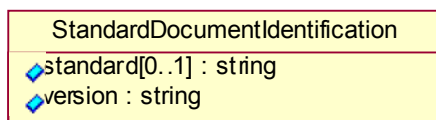


**Figure 5-4 CorrelationInformation**

Composition	Cardinality	Type	Documentation
ContractInformation	0..1	ContractInformation	A block of information used to correlate a contract in an executing choreography.
RequestingDocumentInformation	0..1	RequestingDocumentInformation	A block of information used to correlate a requesting document to a responding document in an executing choreography.

## 5.5 DocumentHeader

The object allows for the identification of the sender and receiver of the business document.



**Figure 5-5 DocumentHeader**

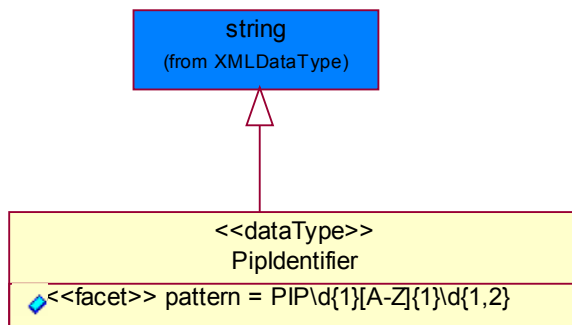
Attribute	Type	Documentation
headerVersion[0..1]	string	The UN/CEFACT version of the document header.

Composition	Cardinality	Type	Documentation
Sender	1	Sender	The object allows the identification of the initiating party of the business message.
CorrelationInformation	0..1	CorrelationInformation	A block of information used to correlate a requesting document to a responding document.

			document and to the contract in an executing choreography.
DocumentInformation	1	DocumentInformation	The object specifies information to identify the business document, a summary of attachments, and information about the business document security.
Receiver	1	Receiver	The object allows the identification of the receiving party of the business message.

## 5.6 DocumentIdentification

The object specifies all information necessary to identify the business document.



**Figure 5-6 DocumentIdentification**

Attribute	Type	Documentation
identifier	string	The unique identifier for the document being sent.
type[0..1]	string	Name of the Action Message

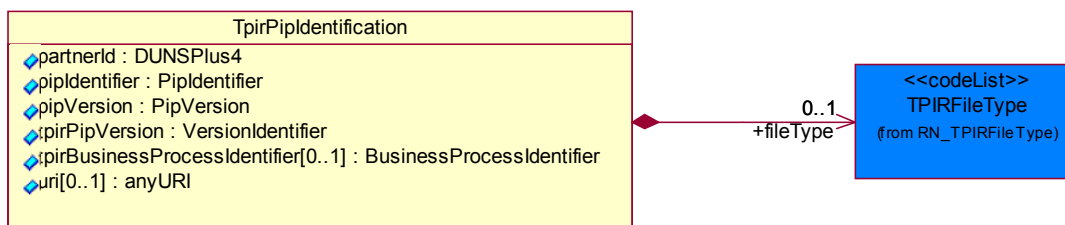
Composition	Cardinality	Type	Documentation
DocumentIdentificationChoice	1	DocumentIdentificationChoice	

## 5.7 DocumentIdentificationChoice

Composition	Cardinality	Type	Documentation
StandardDocumentIdentification	1	StandardDocumentIdentification	The object specifies additional information necessary to identify the standard business document.
TpirPipIdentification	1	TpirPipIdentification	The object specifies all information necessary to uniquely identify a TPIR-PIP within a Registry or trading partner repository.

## 5.8 DocumentInformation

The object specifies information to identify the business document, a summary of attachments, and information about the business document security.



**Figure 5-7 DocumentInformation**

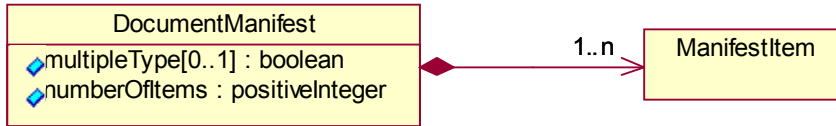
Attribute	Type	Documentation
creation	dateTime	The creation date and time of the specified Business Document (i.e. the Purchase Order date).

Composition	Cardinality	Type	Documentation
DocumentIdentification	1	DocumentIdentification	The object specifies all information necessary to identify the business document.
DocumentSecurity	0..1	DocumentSecurity	The object provides additional granularity in specifying business document security (this is in addition to the specified PIP security).
DocumentManifest	0..1	DocumentManifest	The block provides a brief summary of attachments and Service Content.



## 5.9 DocumentManifest

The block provides a brief summary of attachments and Service Content.



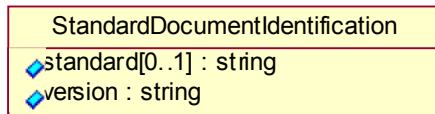
**Figure 5-8 DocumentManifest**

Attribute	Type	Documentation
multipleType[0..1]	boolean	Indicates whether the manifest contains documents of multiple types. True if yes, and False if no.
numberOfItems	positiveInteger	Total number of documents in the message. The physical count of the attachments in the payload plus the RosettaNet Business Message (for Service Content). The value of this field will be at least 1.

Composition	Cardinality	Type	Documentation
ManifestItem	1..n	ManifestItem	The object provides details about the specific attachment(s).

## 5.10 DocumentSecurity

The object provides additional granularity in specifying business document security (this is in addition to the specified PIP security).

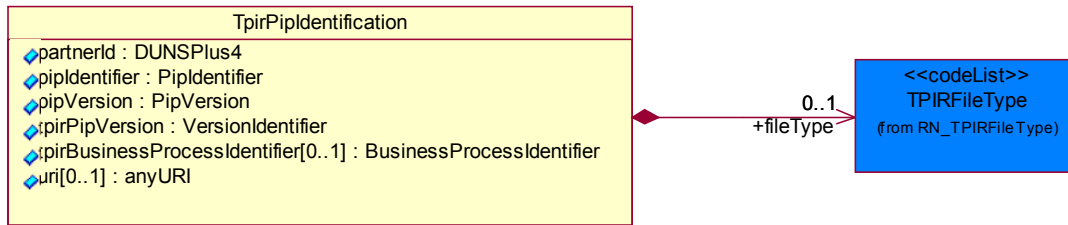


**Figure 5-9 DocumentSecurity**

Attribute	Type	Documentation
nonRepudiableReceipt	boolean	The value "true" will indicate that a signed acknowledgement for the business document is necessary.
persistentEncryption	boolean	The value "true" will indicate that the Business Document (including the header) needs to be encrypted when stored or transported.
persistentSignature	boolean	The value "true" will indicate that a signature is required to be stored with the document while stored or transported.

## 5.11 ManifestItem

The object provides details about the specific attachment(s).



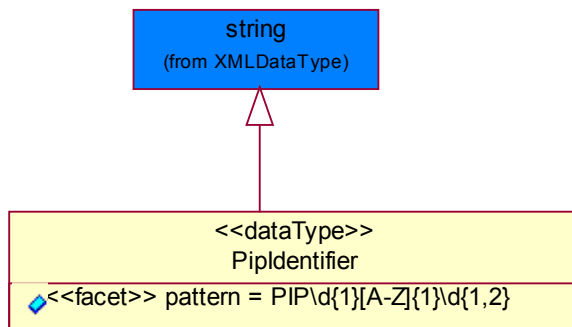
**Figure 5-10 ManifestItem**

Attribute	Type	Documentation
description[0..1]	string	A description of the attachment.
length[0..1]	positiveInteger	The size of the attachment in bytes (i.e. 1 000 000 bytes)
universalResourceIdentifier	string	The generic set of all names/addresses that are short strings that refer to resources.

Composition	Cardinality	Type	Documentation
contentTypeQualifier	1	ContentTypeQualifier	The MIME type as defined by IANA.  Please refer to <a href="http://www.iana.org/assignments/media-types/">http://www.iana.org/assignments/media-types/</a> for a list of types.
language	0..1	Language	For representation of Language name RosettaNet has adopted ISO 639-2; 1998. Refer to the following web page to get the latest version of the standard:  <a href="http://www.loc.gov/standards/iso639-2/iso639jac.html">http://www.loc.gov/standards/iso639-2/iso639jac.html</a>  If you need more information about the ISO standard please contact ISO for more details.

## 5.12 PipIdentifier

PIP Identification.[ i.e. PIP3A4]

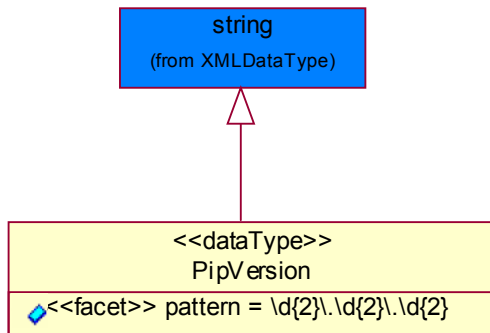


**Figure 5-11 PipIdentifier**

Attribute	Type	Documentation
pattern		PIP\d{1}[A-Z]{1}\d{1,2}

## 5.13 PipVersion

PIP version number (i.e. 02.02.00).

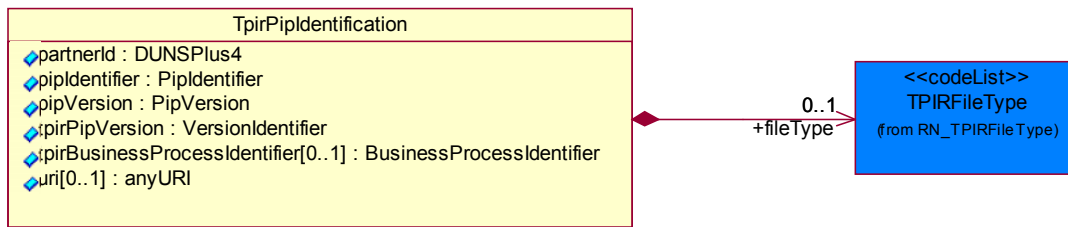


**Figure 5-12 PipVersion**

Attribute	Type	Documentation
pattern		\d{2}\.\d{2}\.\d{2}

## 5.14 Receiver

The object allows the identification of the receiving party of the business message.

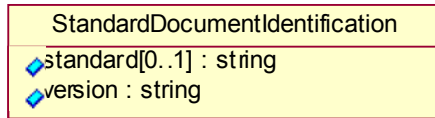


**Figure 5-13 Receiver**

Composition	Cardinality	Type	Documentation
BusinessServiceIn formation	0..1	BusinessServiceIn formation	The object allows the specification of the business service utilized within the partner company. This may or may not be the same as the information sent by the RNIF.
PartnerIdentificati on	1	PartnerIdentificati on	The business document must allow for the identity of one or more parties to the transaction.
ContactInformatio n	0..n	ContactInformatio n	The business document must allow for the identification of the name of the department, service or individual to be contacted regarding the context of the business document.

## 5.15 RequestingDocumentInformation

A block of information used to correlate a requesting document to a responding document in an executing choreography.

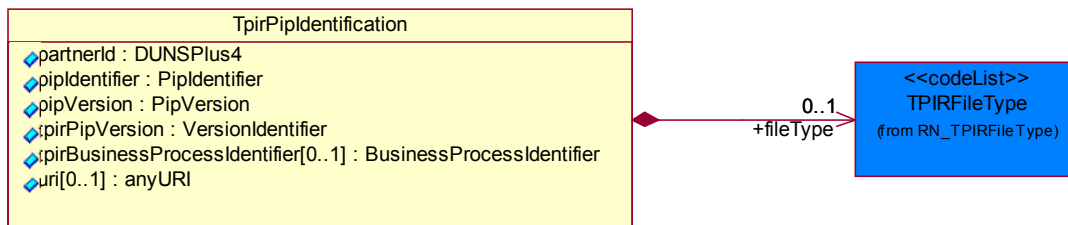


**Figure 5-14 RequestingDocumentInformation**

Attribute	Type	Documentation
businessProcessInstanceIdentifier[0..1]	string	The identifier for the public business process instance being sent that both the sender and receiver can identify.
responseDateTime[0..1]	dateTime	The expected time to receive the response. This can not be greater than the PIP TimeToPerform.
requestingDocumentCreationDateTime[0..1]	dateTime	The date-time of the requesting business document.
requestingDocumentInstanceIdentifier	string	The Business Document identification number that identifies the requesting Business Document.

## 5.16 Sender

The object allows the identification of the initiating party of the business message.



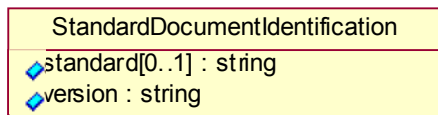
**Figure 5-15 Sender**

Composition	Cardinality	Type	Documentation
PartnerIdentification	1	PartnerIdentification	The business document must allow for the identity of one or more parties to the transaction.
BusinessServiceInformation	0..1	BusinessServiceInformation	The object allows the specification of the business service utilized within the partner company. This may or may not be the same as the information sent by the RNIF.
ContactInformation	0..n	ContactInformation	The business document must

n		n	allow for the identification of the name of the department, service or individual to be contacted regarding the context of the business document.
---	--	---	---

## 5.17 StandardDocumentIdentification

The object specifies additional information necessary to identify the standard business document.

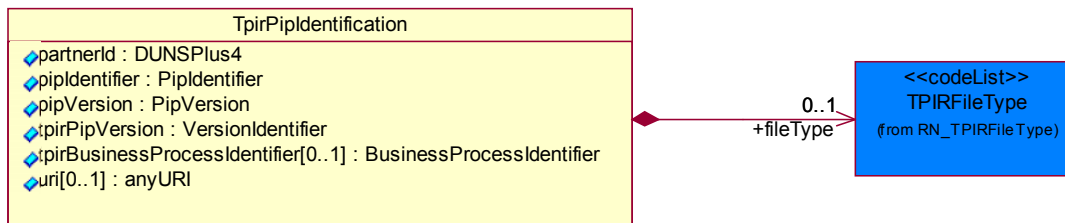


**Figure 5-16 StandardDocumentIdentification**

Attribute	Type	Documentation
standard[0..1]	string	Identifies the standard used to submit the business document. (e.g. RosettaNet).
version	string	PIP3A4v01.00

## 5.18 TpirPipIdentification

The object specifies all information necessary to uniquely identify a TPIR-PIP within a Registry or trading partner repository.



**Figure 5-17 TpirPipIdentification**

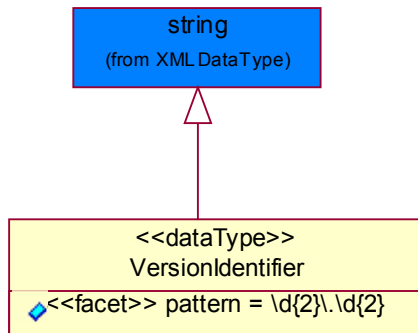
Attribute	Type	Documentation
partnerId	DUNSPlus4	The Trading Partner Identification of MNC that is creating this TPIR PIP.
pipIdentifier	PipIdentifier	A TPIR PIP Identification [i.e., 3A4 ].
pipVersion	PipVersion	A TPIR PIP version number (i.e., 02.02.00)
tpirPipVersion	VersionIdentifier	A TPIR-PIP Version Number (i.e., major and minor version number as XX.XX).
tpirBusinessProcessIdentifier[0..1]	BusinessProcessIdentifier	A Business Process Identifier to uniquely define the TPIR-PIP 'role' within a Business Scenario at a company or MNC level. The identifier MUST be composed of alphanumeric characters only and its length MUST be between one and twelve

		characters.
uri[0..1]	anyURI	Describes the destination uri for the TPIR form.

Composition	Cardinality	Type	Documentation
fileType	0..1	TPIRFileType	Describes the file type of the TPIR form (PDF, XDP or XML).

## 5.19 VersionIdentifier

Version Number (i.e., major and minor version number as XX.XX).



**Figure 5-18 VersionIdentifier**

Attribute	Type	Documentation
pattern		\d{2}\.\d{2}

## 5.20 CodeList

### 5.20.1 TPIRFileType

A code identifying the file type of TPIR form.

Name	Documentation
PDF	Portable Document Format.
XDP	XML Data Package.
XML	eXtensible Markup Language.

## 6. XML Data Type

### 6.1 anyURI

Represents a URI as defined by RFC 2396. An anyURI value can be absolute or relative, and may have an optional fragment identifier. **boolean**

Represents Boolean values, which are either "true" or "false". **date**

For the represents a calendar date.

The pattern for a date is CCYY-MM-DD where CC represents the century, YY the year, MM the month, and DD the day, with an optional time zone indicator as allowed

for dateTime. **dateTime**

Represents a specific instance of time.

The pattern for dateTime is CCYY-MM-DDThh:mm:ss where CC represents the century, YY the year, MM the month, and DD the day, preceded by an optional leading negative (-) character to indicate a negative number. If the negative character is omitted, positive (+) is assumed. The T is the date/time separator and hh, mm, and ss represent hour, minute, and second respectively. Additional digits can be used to increase the precision of fractional seconds if desired. For example, the format ss.ss... with any number of digits after the decimal point is supported. The fractional seconds part is optional. This representation may be immediately followed by a "Z" to indicate Coordinated Universal Time (UTC) or to indicate the time zone. For example, the difference between the local time and Coordinated Universal Time, immediately followed by a sign, + or -, followed by the difference from UTC represented as hh:mm (minutes is required). If the time zone is included, both hours and minutes must be present. **decimal**

A data type that contains decimal numbers scaled by a power of 10. **float**

Represents single-precision 32-bit floating-point numbers. **gDay**

Represents a Gregorian day that recurs, specifically a day of the month such as the fifth day of the month. A gDay is the space of a set of calendar dates. Specifically, it is a set of one-day long, monthly periodic instances. The pattern for gDay is ---DD

with optional time zone indicator as allowed for date. **positiveInteger**

Represents an integer that is greater than zero. This data type is derived from nonNegativeInteger. **string**

Represents character string.