

## Description of 3C3 Message

PIP® 3C3

**Validated 11.04.00**

<b>Specification Information</b>	
<b>Name</b>	Description Of 3C3 Message
<b>PIP</b>	Notify of Invoice
<b>Cluster</b>	Order Management
<b>Segment</b>	Returns and Finance
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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.rosettanet.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 3C3
- Message Structure

## 1.6 Document Version History

<b><u>Version</u></b>	<b><u>Date</u></b>	<b><u>Description</u></b>
Validated 11.00.00	04 April 2006	Validated Version
Validated 11.01.00	02 June 2006	Validated Version
Validated 11.02.00	22 August 2006	Validated Version
Validated 11.03.00	24 July 2007	Validated 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 Invoice Notification

#### 2.1.1 Interchange Diagram

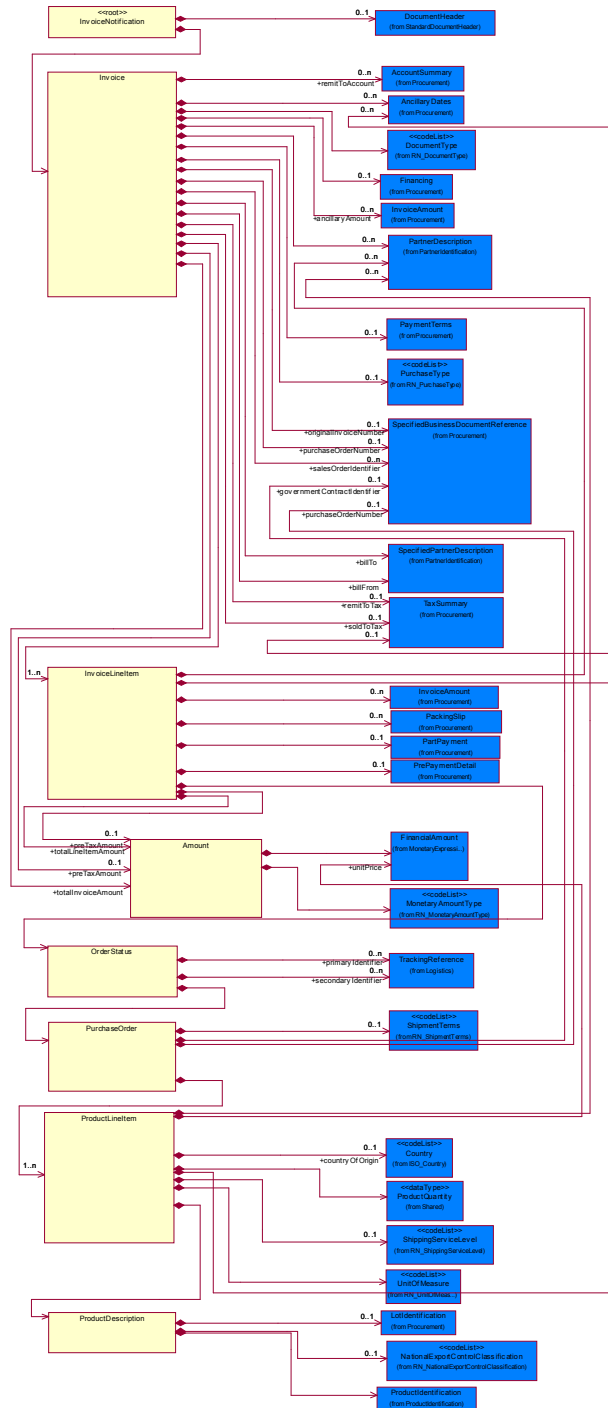
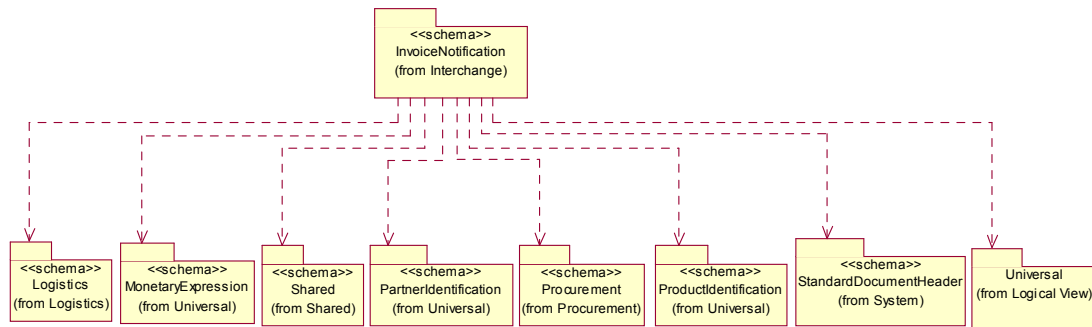


Figure 2-1 Interchange

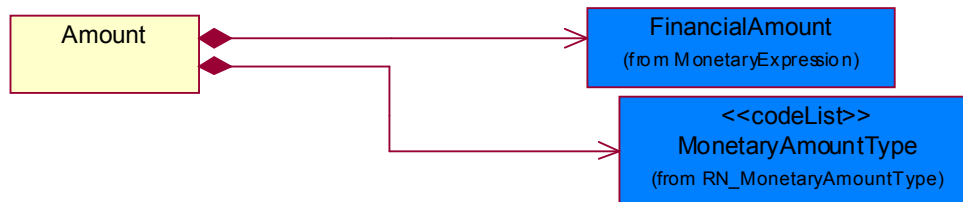
## 2.1.2 Dependency Diagram



**Figure 2-2 Dependency**

## 2.1.3 Amount

The collection of business properties that describe the monetary amount.

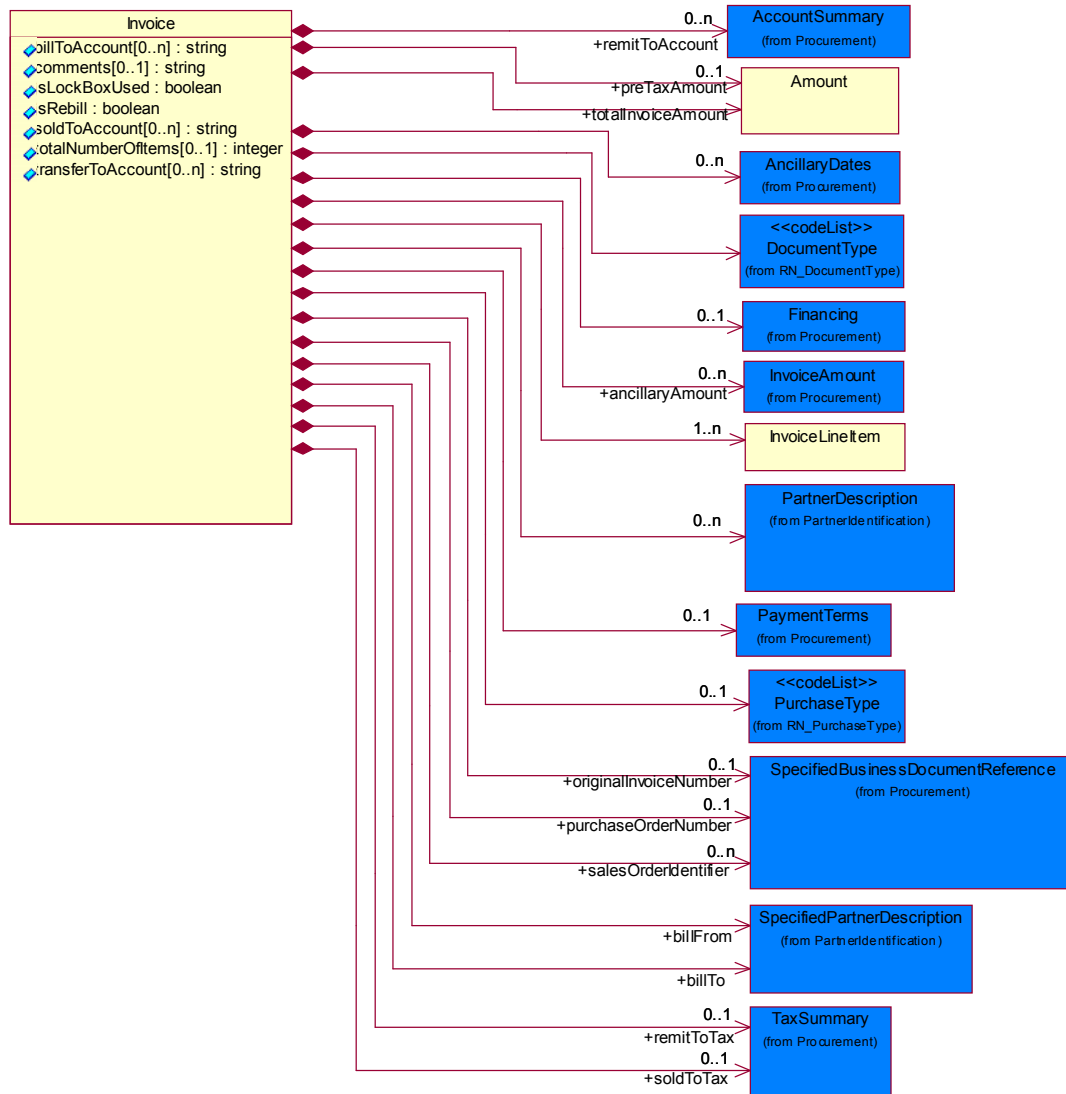


**Figure 2-3 Amount**

Composition	Cardinality	Type	Documentation
FinancialAmount	1	FinancialAmount	The business document must express financial amounts.
MonetaryAmount Type	1	MonetaryAmountType	Code identifying whether the monetary amount is a debit or credit.

## 2.1.4 Invoice

An itemized list of goods or services specifying the price and the terms of sale. The recommended ProcessRoleIdentifier in PartnerDescription are RMT - Remit To, SLD - Sold To & TTR - Transfer To.



**Figure 2-4 Invoice**

Attribute	Type	Documentation
billToAccount[0..n]	string	The account number of the party that pays the invoice.
comments[0..1]	string	A free form textual description of information, relating to a product.
isLockBoxUsed	boolean	Indicates the appearance of a lock box number on an applicable address line and subsequent requirement.

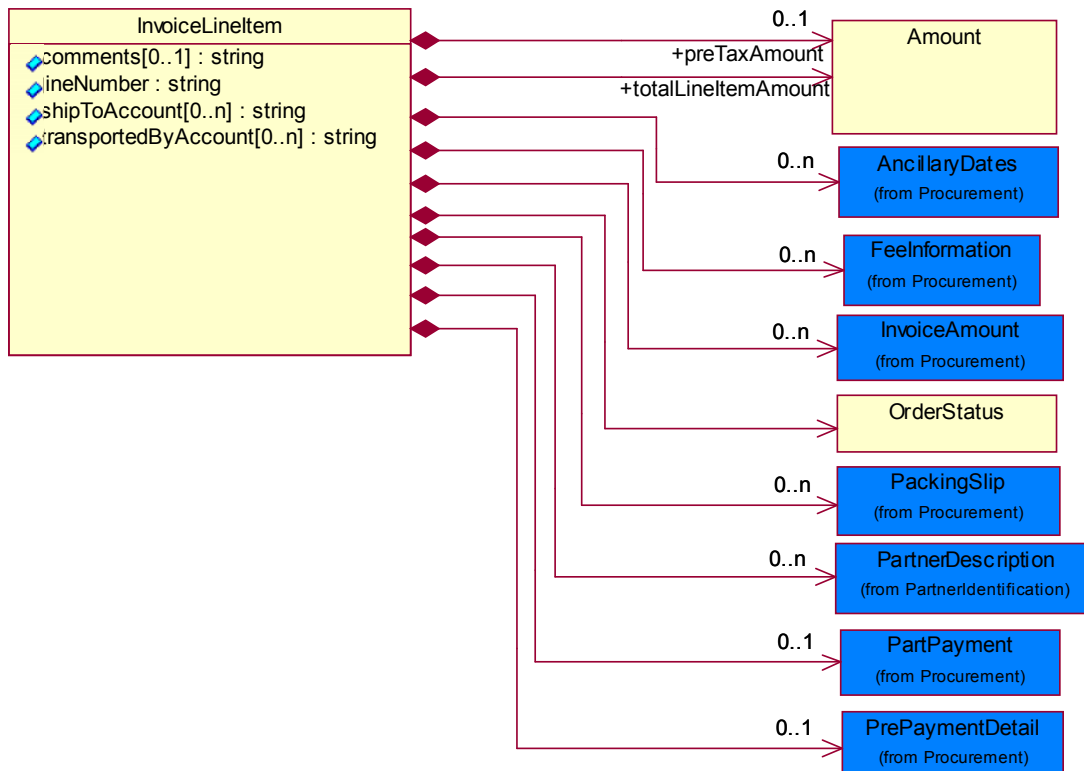
isRebill	boolean	Indicates whether the business document is being resent.
soldToAccount[0..n]	string	The account number of the party that purchases of the product.
totalNumberOfItems[0..1]	integer	Total invoice quantity.
transferToAccount[0..n]	string	The account number of the party that transfers the product.

Composition	Cardinality	Type	Documentation
Financing	0..1	Financing	The collection of business properties that describe financial information.
InvoiceLineItem	1..n	InvoiceLineItem	The collection of business properties that describe an invoice entry. The recommended ProcessRoleIdentifier in PartnerDescription are SHT - Ship To & TRA - Transported By.
PurchaseType	0..1	PurchaseType	Code that denotes type of purchase.
remitToAccount	0..n	AccountSummary	The account number of the party to whom payment is sent.
remitToTax	0..1	TaxSummary	The total tax liability of the party to whom payment is sent.
totalInvoiceAmount	1	Amount	The total amount on an invoice.
DocumentType	1	DocumentType	Code identifying the type of financial document, e.g. invoice, credit memo or debit memo.
soldToTax	0..1	TaxSummary	The total tax liability of the party that purchases the product.
originalInvoiceNumber	0..1	SpecifiedBusinessDocumentReference	Unique identifier that represents the original invoice.
purchaseOrderNumber	0..1	SpecifiedBusinessDocumentReference	Unique number that identifies a purchase order.
salesOrderIdentifier	0..n	SpecifiedBusinessDocumentReference	The unique identifier that represents a sales order.
ancillaryAmount	0..n	InvoiceAmount	Ancillary costs that are not included in the line items.
preTaxAmount	0..1	Amount	The gross amount prior to calculating taxes.

PaymentTerms	0..1	PaymentTerms	The collection of business properties that describe payment terms.
AncillaryDates	0..n	AncillaryDates	Describe ancillary and different dates besides invoice creation date.
billFrom	1	SpecifiedPartnerDescription	The party that will issue the invoice.
billTo	1	SpecifiedPartnerDescription	The party that will pay the invoice.
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.

### 2.1.5 InvoiceLineItem

The collection of business properties that describe an invoice entry. The recommended ProcessRoleIdentifier in PartnerDescription are SHT - Ship To & TRA - Transported By.



**Figure 2-5 InvoiceLineItem**

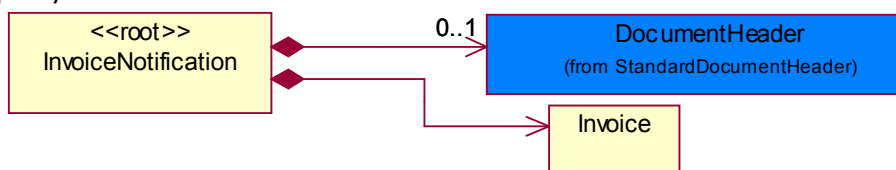
Attribute	Type	Documentation
comments[0..1]	string	A free form textual description of information, relating to a product.
lineNumber	string	Number of the line in the document.
shipToAccount[0..n]	string	The account number of the party where the product is shipped.
transportedByAccount[0..n]	string	The account number of the party that transports the product.

Composition	Cardinality	Type	Documentation
preTaxAmount	0..1	Amount	The gross amount prior to calculating taxes.
OrderStatus	1	OrderStatus	The collection of business properties that describe the fulfillment and shipping status of ordered products.
PrePaymentDetail	0..1	PrePaymentDetail	The collection of business properties that describe prepayment details used in countries where VAT applies

			from a date other than the invoice generation date.
InvoiceAmount	0..n	InvoiceAmount	The monetary value of the invoice.
totalLineItemAmount	1	Amount	The monetary total associated with a line item.
PackingSlip	0..n	PackingSlip	Describe information on the packing slip.
AncillaryDates	0..n	AncillaryDates	Describe ancillary and different dates besides invoice creation date.
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.
PartPayment	0..1	PartPayment	The collection of business properties that represent invoicing for part payments based on paying a percentage of the purchase price for the products or installation services being provided.
FeeInformation	0..n	FeeInformation	

### 2.1.6 InvoiceNotification

The collection of business data structures that enables a provider to invoice another party.

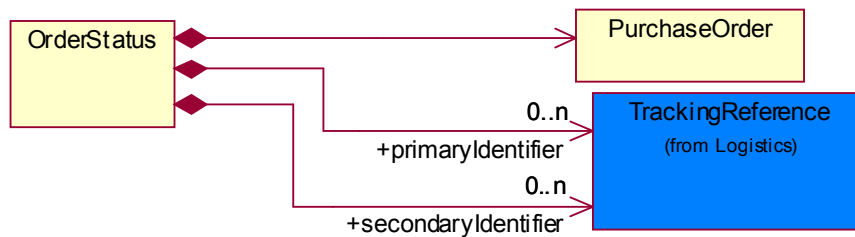


**Figure 2-6 InvoiceNotification**

Composition	Cardinality	Type	Documentation
DocumentHeader	0..1	DocumentHeader	The object allows for the identification of the sender and receiver of the business document.
Invoice	1	Invoice	An itemized list of goods or services specifying the price and the terms of sale. The recommended ProcessRoleIdentifier in PartnerDescription are RMT - Remit To, SLD - Sold To & TTR - Transfer To.

### 2.1.7 OrderStatus

The collection of business properties that describe the fulfillment and shipping status of ordered products.

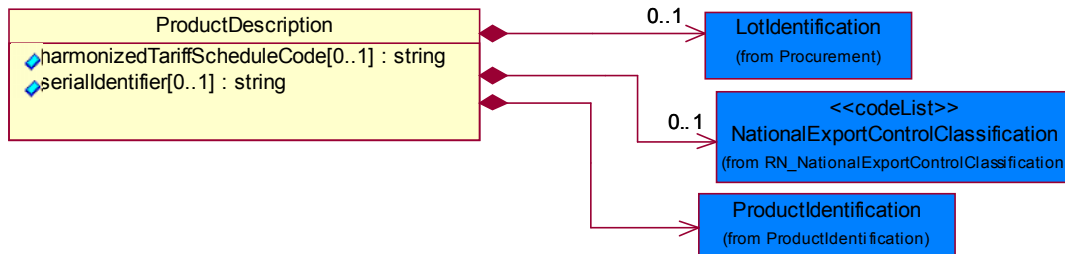


**Figure 2-7 OrderStatus**

Composition	Cardinality	Type	Documentation
primaryIdentifier	0..n	TrackingReference	A unique tracking number (assigned by the carrier) to a package for the duration of a shipment, through all intermediaries.
secondaryIdentifier	0..n	TrackingReference	A tracking number that will generally be carrier specific and will not be bound to a particular format.
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.

### 2.1.8 ProductDescription

The collection of business properties that provide a non-technical product description typically used for marketing, sales and trade documents.



**Figure 2-8 ProductDescription**

Attribute	Type	Documentation
harmonizedTariffScheduleCode[0..1]	string	Code identifying product classification for international shipping.
serialIdentifier[0..1]	string	Unique serial identifier assigned to the product.



Composition	Cardinality	Type	Documentation
ProductIdentification	1	ProductIdentification	The object provides the identifier(s) of a product.
LotIdentification	0..1	LotIdentification	This object identifies a lot which associates the product with a specific group of products with some similar attributes.
NationalExportControlClassification	0..1	NationalExportControlClassification	Code identifying product classification for export regulation.

### 2.1.9 ProductLineItem

The collection of business properties that describe a business document entry for a product. The recommended ProcessRoleIdentifier in PartnerDescription are SHF - Ship From.

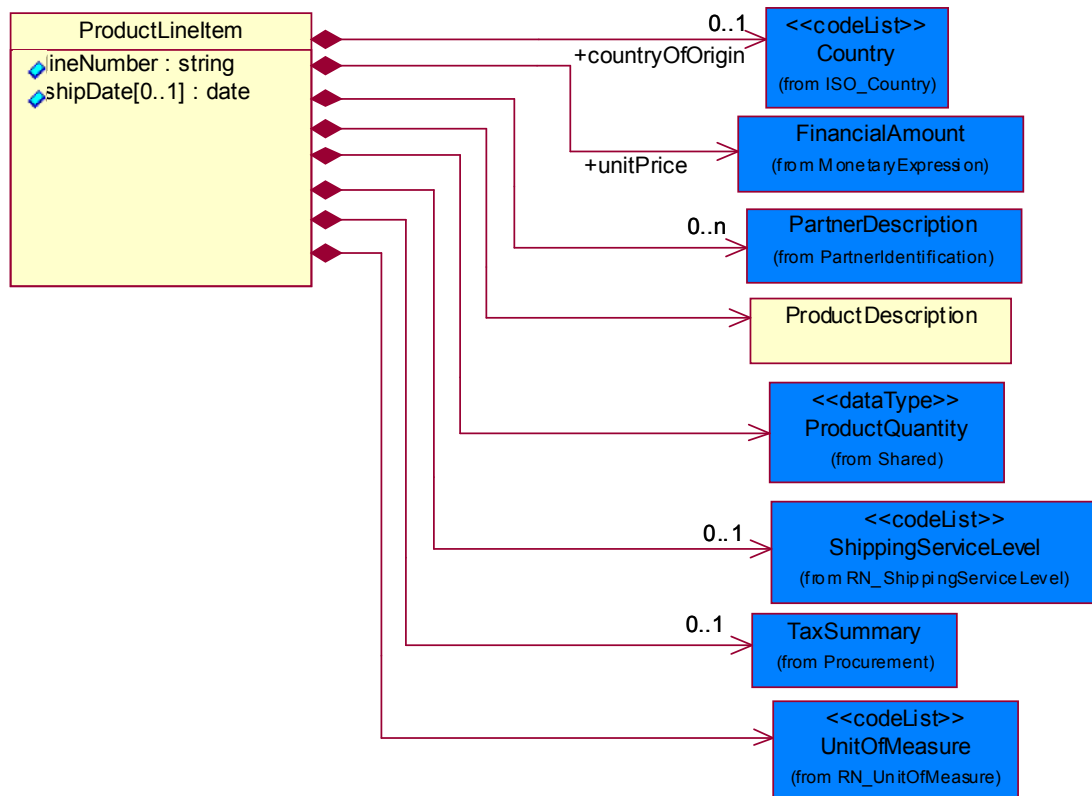


Figure 2-9 ProductLineItem

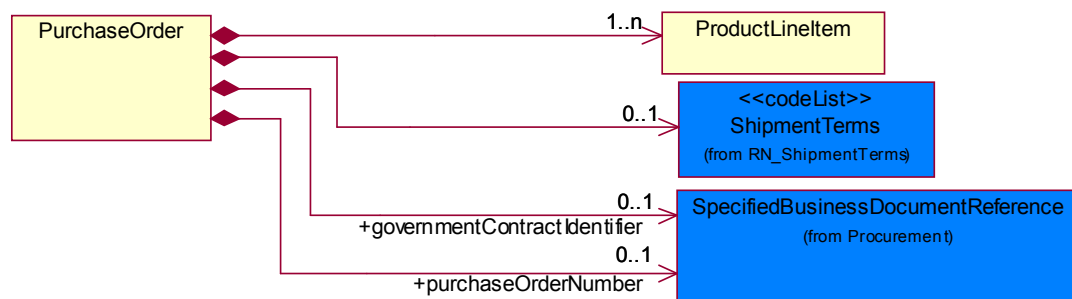
Attribute	Type	Documentation
lineNumber	string	Number of the line in the document.
shipDate[0..1]	date	The (GMT) local date the product is shipped.

Composition	Cardinality	Type	Documentation
countryOfOrigin	0..1	Country	Country where product

			originates.
UnitOfMeasure	1	UnitOfMeasure	Code identifying a product unit of measure.
unitPrice	1	FinancialAmount	Price for each unit.
ProductDescription	1	ProductDescription	The collection of business properties that provide a non-technical product description typically used for marketing, sales and trade documents.
TaxSummary	0..1	TaxSummary	The collection of business properties that describe the total tax information for a local, regional or national taxing authority.
PartnerDescription	0..n	PartnerDescription	The DUNS or DUNS + 4 number of the location from where the product is to be shipped.
ShippingServiceLevel	0..1	ShippingServiceLevel	Code identifying the shipping service level, e.g., overnight, same day.
ProductQuantity	1	ProductQuantity	A quantity specifying the number of product units.

### 2.1.10 PurchaseOrder

The collection of business properties that describe a buyer's offer to purchase a quantity of products at an agreed price and schedule.



**Figure 2-10 PurchaseOrder**

<b>Composition</b>	<b>Cardinality</b>	<b>Type</b>	<b>Documentation</b>
ShipmentTerms	0..1	ShipmentTerms	Code identifying the terms under which a product is shipped.
ProductLineItem	1..n	ProductLineItem	The collection of business properties that describe a business document entry for a product. The recommended ProcessRoleIdentifier in PartnerDescription are SHF - Ship From.
governmentContractIdentifier	0..1	SpecifiedBusinessDocumentReference	The unique number that identifies a government contract.
purchaseOrderNumber	0..1	SpecifiedBusinessDocumentReference	Unique number that identifies a purchase order.

## 3. Domain ModelProcurement

### 3.1.1 Procurement

#### 3.1.1.1 Dependency Diagram

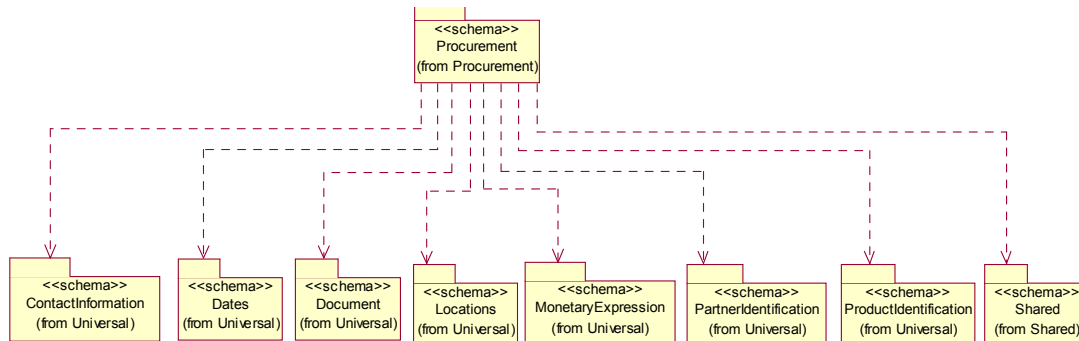


Figure 3-1 Dependency

#### 3.1.1.2 AccountSummary

The collection of business properties that summarizes an account information.

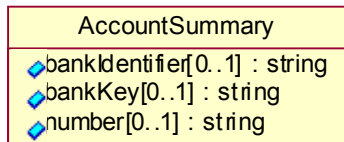
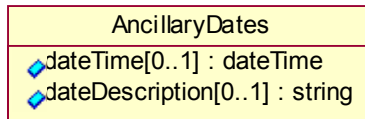


Figure 3-2 AccountSummary

Attribute	Type	Documentation
bankIdentifier[0..1]	string	A unique bank identifier such as an ISO standard Bank Identifier Code (BIC) of which SWIFT (Society for Worldwide Interbank Financial Telecommunication) is the registration authority.
bankKey[0..1]	string	Bank sort code required by some banks to enable transfers of funds.
number[0..1]	string	Identification number of an account.

### 3.1.1.3 AncillaryDates

Describe ancillary and different dates besides invoice creation date.

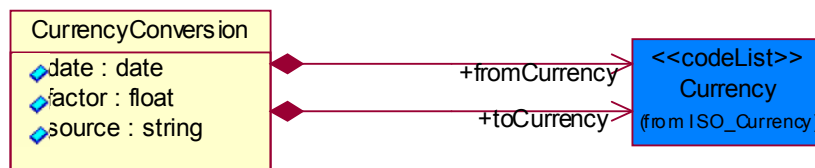


**Figure 3-3 AncillaryDates**

Attribute	Type	Documentation
dateTime[0..1]	dateTime	The date-time stamp indicating on the referenced business document.
dateDescription[0..1]	string	Describe the purpose of the date time.

### 3.1.1.4 CurrencyConversion

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



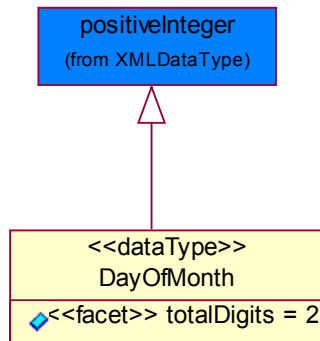
**Figure 3-4 CurrencyConversion**

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.

### 3.1.1.5 DayOfMonth

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

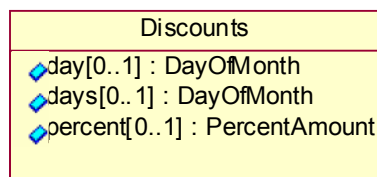


**Figure 3-5 DayOfMonth**

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> .

### 3.1.1.6 Discounts

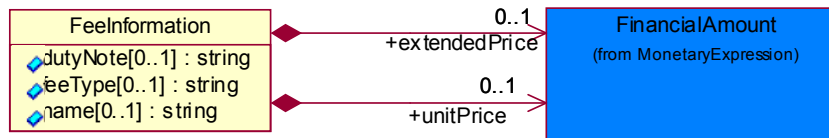
The collection of business properties that describe payment discounts.



**Figure 3-6 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.

### 3.1.1.7 FeeInformation



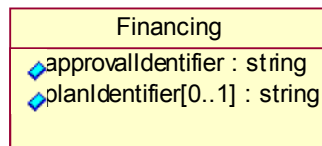
**Figure 3-7 FeeInformation**

Attribute	Type	Documentation
dutyNote[0..1]	string	Text that contains information on the duty supported.
feeType[0..1]	string	The type of additional fee added to the line item.
name[0..1]	string	The name of the fee.

Composition	Cardinality	Type	Documentation
extendedPrice	0..1	FinancialAmount	Total price for a product quantity.
unitPrice	0..1	FinancialAmount	Agreed upon sale price for each unit ordered.

### 3.1.1.8 Financing

The collection of business properties that describe financial information.

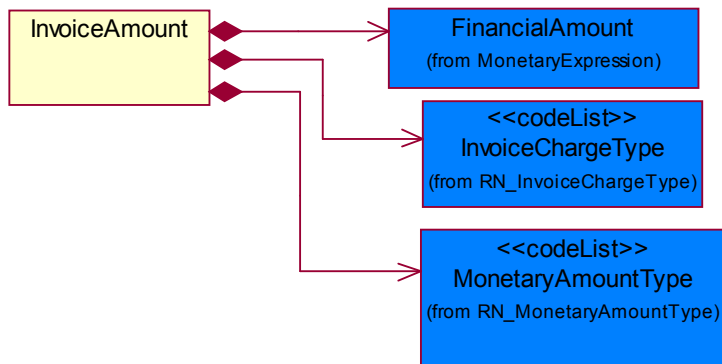


**Figure 3-8 Financing**

Attribute	Type	Documentation
approvalIdentifier	string	The unique number that identifies the approval of a request.
planIdentifier[0..1]	string	The unique number that identifies the tool by which the payment will be made.

### 3.1.1.9 InvoiceAmount

The monetary value of the invoice.

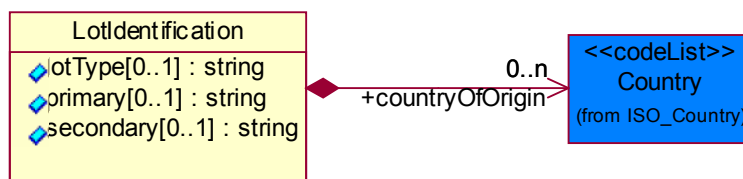


**Figure 3-9 InvoiceAmount**

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

### 3.1.1.10 LotIdentification

This object identifies a lot which associates the product with a specific group of products with some similar attributes.



**Figure 3-10 LotIdentification**

Attribute	Type	Documentation
lotType[0..1]	string	Identify the type of the lot whether it's for Production or Engineering.
primary[0..1]	string	The primary lot identifier.
secondary[0..1]	string	The secondary lot identifier.

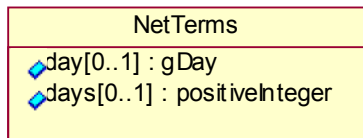
Composition	Cardinality	Type	Documentation
-------------	-------------	------	---------------



countryOfOrigin	0..n	Country	This object represents the country where the product originates.
-----------------	------	---------	--

### 3.1.1.11 NetTerms

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

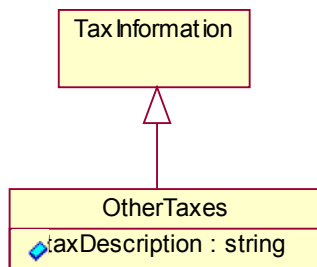


**Figure 3-11 NetTerms**

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.

### 3.1.1.12 OtherTaxes

The collection of business properties that describe other tax information.

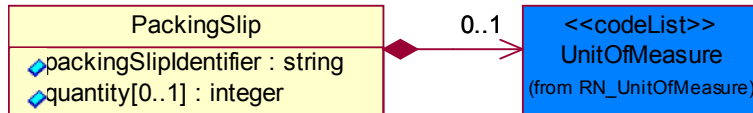


**Figure 3-12 OtherTaxes**

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

### 3.1.1.13 PackingSlip

Describe information on the packing slip.



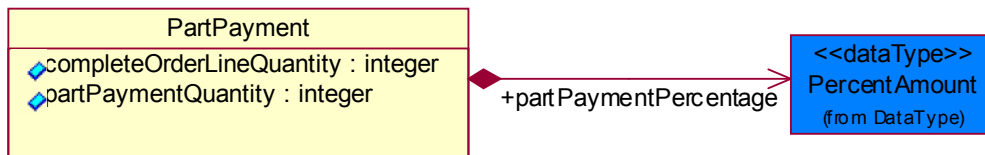
**Figure 3-13 PackingSlip**

Attribute	Type	Documentation
packingSlipIdentifier	string	Unique number that identifies a packing slip.
quantity[0..1]	integer	Quantity of product.

Composition	Cardinality	Type	Documentation
UnitOfMeasure	0..1	UnitOfMeasure	Code identifying a product unit of measure.

### 3.1.1.14 PartPayment

The collection of business properties that represent invoicing for part payments based on paying a percentage of the purchase price for the products or installation services being provided.



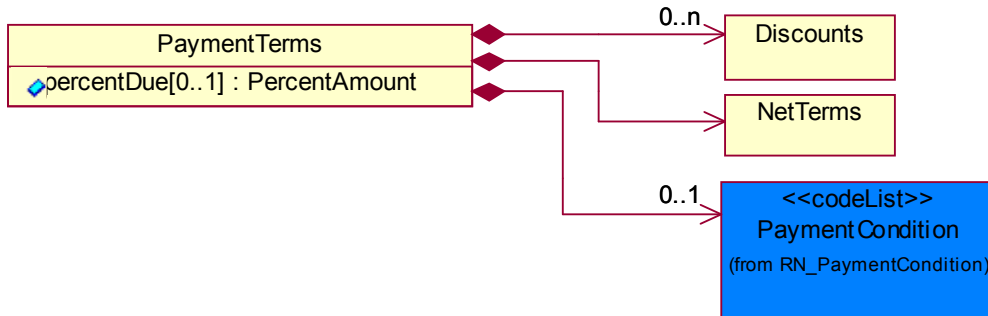
**Figure 3-14 PartPayment**

Attribute	Type	Documentation
completeOrderLineQuantity	integer	Complete order line quantity.
partPaymentQuantity	integer	The quantity which can be invoiced as a result of applying the part payment percentage to the full line quantity.

Composition	Cardinality	Type	Documentation
partPaymentPercentage	1	PercentAmount	The percentage of the total line quantity which can be invoiced to receive payment.

### 3.1.1.15 PaymentTerms

The collection of business properties that describe payment terms.



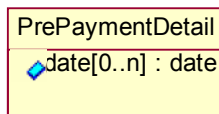
**Figure 3-15 PaymentTerms**

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.

### 3.1.1.16 PrePaymentDetail

The collection of business properties that describe prepayment details used in countries where VAT applies from a date other than the invoice generation date.

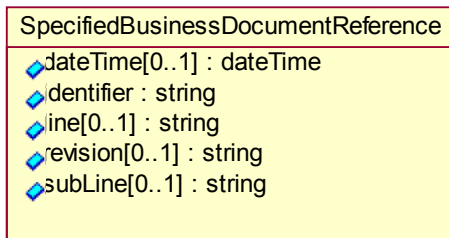


**Figure 3-16 PrePaymentDetail**

Attribute	Type	Documentation
date[0..n]	date	The date which VAT applies in the countries where the date is different than the invoice generation date.

### 3.1.1.17 SpecifiedBusinessDocumentReference

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

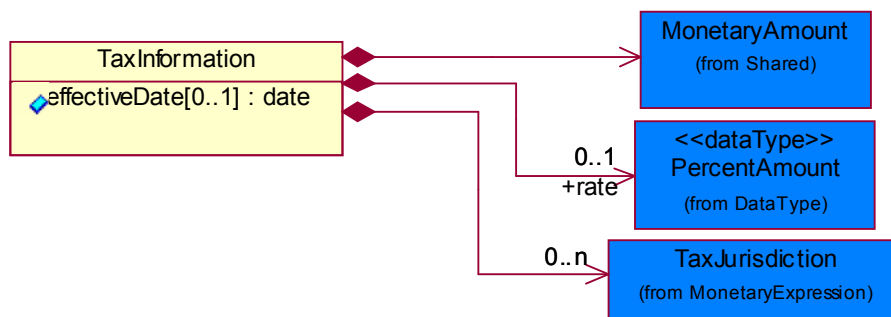


**Figure 3-17 SpecifiedBusinessDocumentReference**

Attribute	Type	Documentation
dateTime[0..1]	dateTime	The date-time stamp indicating on the referenced business document.
identifer	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.

### 3.1.1.18 TaxInformation

The collection of business properties that describe tax information.



**Figure 3-18 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.

### 3.1.1.19 TaxPhrase

The collection of business properties that describe VAT specific information.

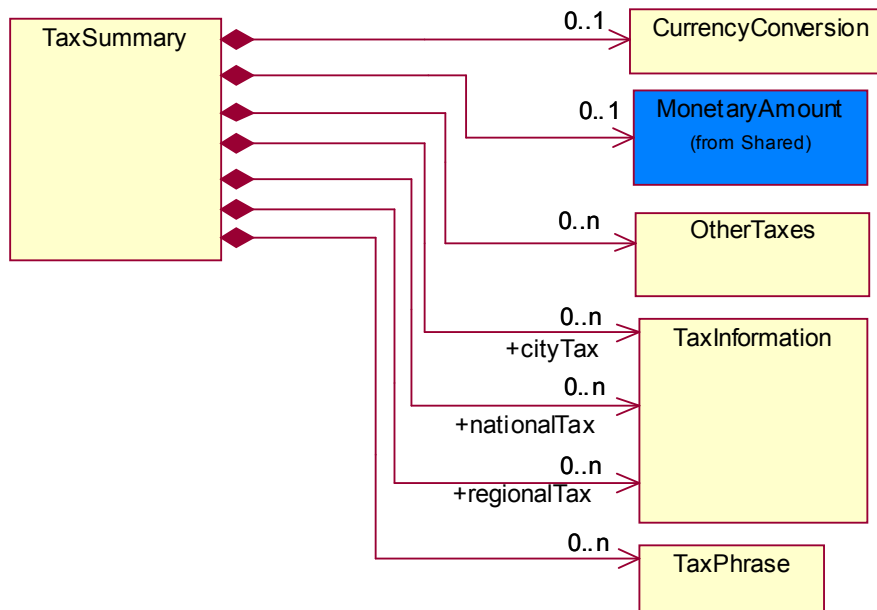
TaxPhrase
 isTaxTriangulationApplicable : boolean  phrase : string

**Figure 3-19 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.

### 3.1.1.20 TaxSummary

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



**Figure 3-20 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.

### 3.1.2 CodeList

#### 3.1.2.1 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.

#### 3.1.2.2 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.

### 3.1.2.3 PurchaseType

Code that denotes type of purchase.

Name	Documentation
CAS	Cash.
CRE	Credit.
INS	Installment.

### 3.1.2.4 DocumentType

Code identifying the type of financial document, e.g. invoice, credit memo or debit memo.

Name	Documentation
ACM	ASP claim. The unique identifier assigned by the ASP for a warranty claim.
APO	ASP part order. The unique identifier assigned by the ASP for a part order.
APR	ASP part return. The unique identifier assigned by the ASP for a part return.
ARQ	ASP requisition. The unique identifier assigned by the ASP to reference a work order.
CAN	Credit Adjustment Note
CIN	Commercial invoice.
CNT	Contract.
CRM	Credit memo.
DAN	Debit Adjustment Note
DEM	Debit memo.
DEN	Delivery note.
DWN	Drawing number. Number associated with the drawing provided.
INV	Invoice.
LID	Location Identifier. Data for on-site work that have to be done on the machine (associated with preventative maintenance order).
MDN	Model number associated with the product.
MEN	Master event number.
MID	Machine identifier. Data for on-site work that have to be done on the machine (associated with preventative maintenance order).
OCM	OEM claim. The unique identifier assigned by the OEM for a warranty claim.
OPO	OEM part order. The unique identifier assigned by the OEM for a part order.
OPR	OEM part return. The unique identifier assigned by the OEM for a part return.
POI	Purchase Order IN.
POO	Purchase Order OUT.
POR	Purchase Order.
QOT	Quote.
REQ	Requisition.
RMA	Return material authorization.



SBC	Self Billing Credit memo-credit memo used in self-billing scenario.
SBD	Self Billing Debit memo, debit memo used in self-billing scenario.
SBI	Self Billing Invoice, invoice is used in self-billing scenario.
SEN	Serial number. Data for on-site work that have to be done on the machine (associated with preventative maintenance order).
SNC	Shipset number on code list.
SOR	Sales order.
SPN	Specification number. Data for on-site work that have to be done on the machine (associated with preventative maintenance order).
TIN	Tax Invoice
WBL	Waybill.
WCM	Warranty claim.
WOR	Work order.

## 3.2 Logistics

### 3.2.1 Logistics

#### 3.2.1.1 Dependency Diagram

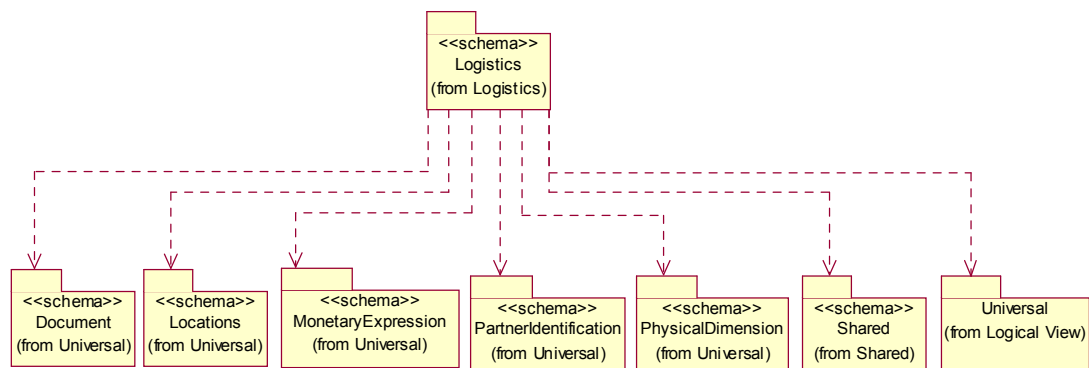


Figure 3-21 Dependency

#### 3.2.1.2 TrackingReference

Proprietary unique identifier for tracking product shipments.

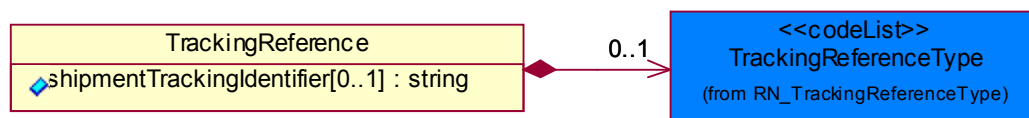


Figure 3-22 TrackingReference

Attribute	Type	Documentation
shipmentTrackingIdentifier[0..1]	string	Proprietary unique identifier for tracking product shipments.

Composition	Cardinality	Type	Documentation
TrackingReferenceType	0..1	TrackingReferenceType	Code identifying the type of document reference being used to track a shipment.

### 3.2.2 CodeList

#### 3.2.2.1 TrackingReferenceType

Code identifying the type of document reference being used to track a shipment.

Name	Documentation
BKN	Booking Number - Shipment identification number assigned by shipper when booking freight shipment with carrier.
BOL	Bill of Lading Number - Shipment identification number on bill of lading issued by shipper, forwarder or carrier.
CIN	Commercial Invoice - An invoice for customs purposes to allow the determination of the proper import/export duty/taxes.
CRN	Carrier Reference Number - Carrier assigned shipment identification number on bill of lading.
FTR	Freight Tracking Reference - Reference number that describes information about tracing shipments during the transportation process.
HAN	House Airwaybill Number - Forwarder assigned shipment identification number on bill of lading issued by forwarder.
MAB	Master Airwaybill Number - Carrier assigned shipment identification number on bill of lading issued by carrier.
OBL	Ocean Bill of Lading Number - Carrier assigned shipment identification number on bill of lading issued by carrier.
PON	Purchase Order Number.
PRO	Pro Number - Carrier assigned shipment identification number on bill of lading.
PSN	Packing Slip Number - Shipment identification number on shipment contents packing list attached to shipment.
RFI	Radio Frequency Identification (RFID).
RRN	Route Reference Number.
SID	Seal Identifier - Trailer or container seal number assigned by party closing doors on trailer or container.
SON	Seller Sales Order Number.
SRN	Shipper Reference Number - Shipper assigned shipment identification number on bill of lading issued by shipper or forwarder.
TRN	Trailer Number - Owner assigned equipment identification number on trailer.

### 3.2.2.2 NationalExportControlClassification

Code identifying product classification for export regulation.

Name	Documentation
CLE	Clearance - The cargo will be or has been cleared.
CUC	Already customs cleared in the importing country, arrangement for inspection are not necessary because they were cleared before.
DET	Detention - The cargo has been or will be detained.
DOR	Documents Required - Pertinent documents are required.
DRC	Documents Requirements Completed - All requirements for documents have been completed.
FUM	Fumigation - The cargo has been or will be fumigated.
IAC	Inspection Arrangements Completed - Arrangements for inspection of the cargo have been completed.
IAR	Inspection Arrangements Required - Arrangements for inspection of the cargo are required.
INS	Inspection - The cargo has been or will be inspected.
LWI	Lowest Importance.
NCP	No Customs Procedure - Customs clearance not required.
SAC	Safety Arrangements Completed - Arrangements for safeguarding the cargo have been completed.
SAR	Safety Arrangements Required - Arrangements for safeguarding the cargo are required.
SCR	Security - The cargo has been or will be secured.
SEC	Security Arrangements Completed - Arrangements for storing the cargo have been completed.
SER	Security Arrangements Required - Arrangements for the security of the cargo are required.
STR	Storage arrangements required - Arrangements for storing the cargo are required.
TAC	Transport Arrangements Completed - All arrangements for transport have been completed.
TAR	Transport Arrangements Required - Transport has to be arranged.

## 3.3 Shared

### 3.3.1 Shared

#### 3.3.1.1 Dependency Diagram

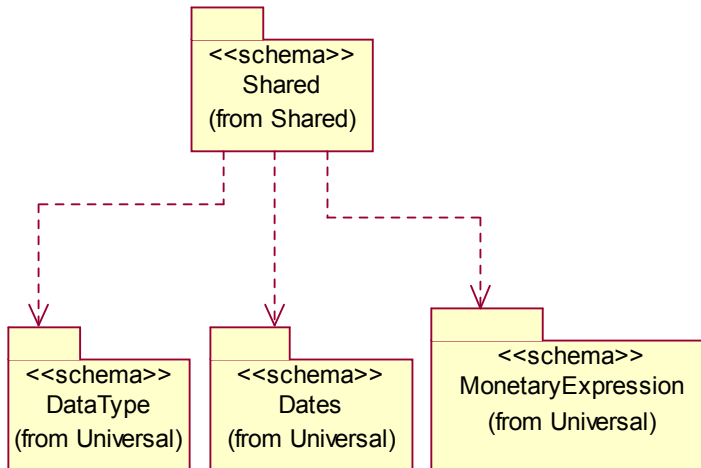


Figure 3-23 Dependency

#### 3.3.1.2 MonetaryAmount

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

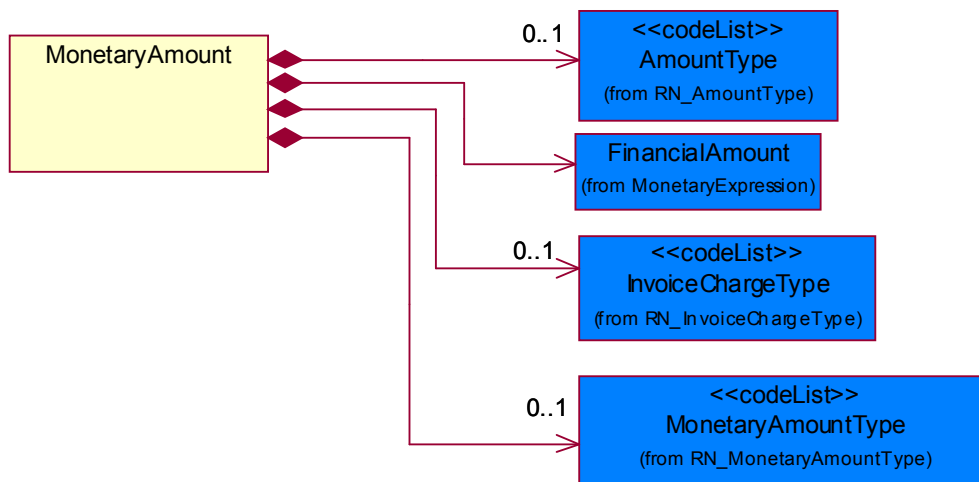
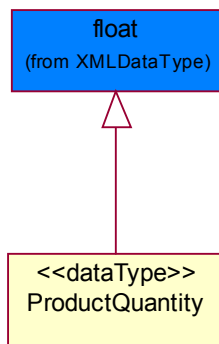


Figure 3-24 MonetaryAmount

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.

### 3.3.1.3 ProductQuantity

A quantity specifying the number of product units.



**Figure 3-25 ProductQuantity**

### 3.3.2 CodeList

#### 3.3.2.1 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.

#### 3.3.2.2 MonetaryAmountType

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

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

#### 3.3.2.3 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.

### 3.3.2.4 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.

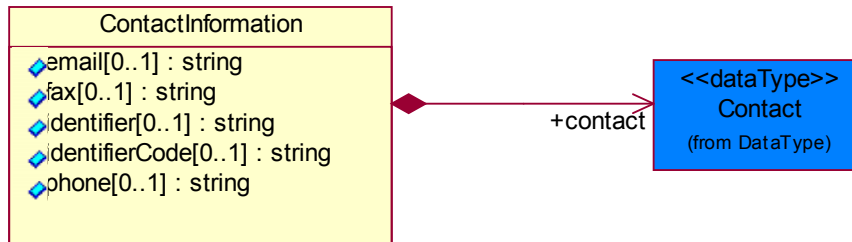


## 4. Universal Structure

### 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**

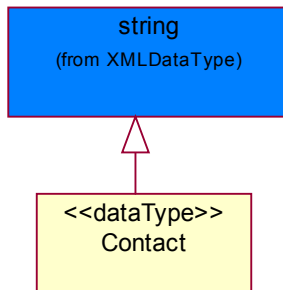
Attribute	Type	Documentation
email[0..1]	string	The electronic mail for the specified contact.
fax[0..1]	string	The fax number for the specified contact.
identifier[0..1]	string	Identifies the role of the contact (i.e. Service Technician, Account Manager) in the Business Process.
identifierCode[0..1]	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

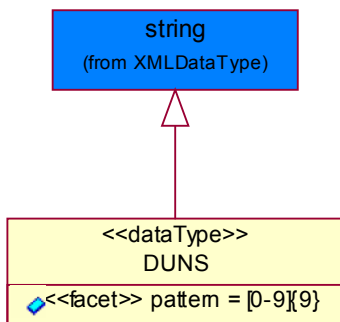
The name of the department, service or individual to be contacted within the organization.



**Figure 4-2 Contact**

### 4.2.2 DUNS

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

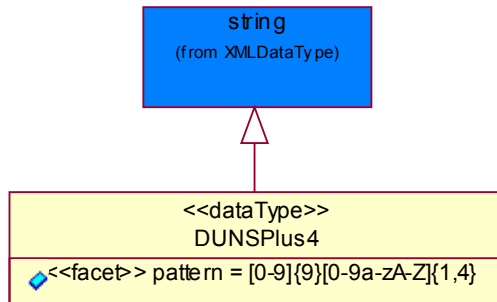


**Figure 4-3 DUNS**

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

### 4.2.3 DUNSPlus4

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

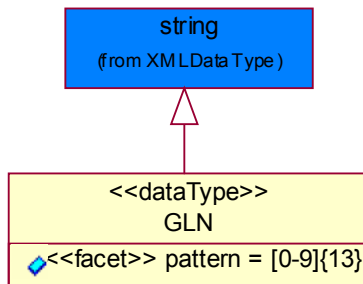


**Figure 4-4 DUNSPlus4**

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.

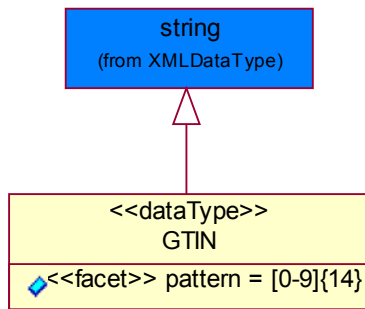


**Figure 4-5 GLN**

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

### 4.2.5 GTIN

Global Trade Identification Number (GTIN).

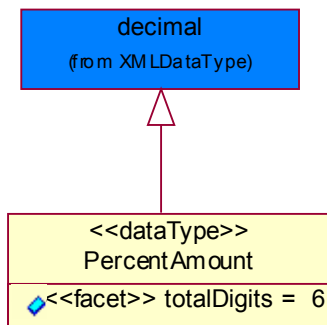


**Figure 4-6 GTIN**

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.



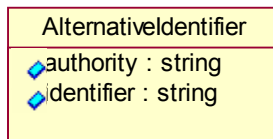
**Figure 4-7 PercentAmount**

Attribute	Type	Documentation
totalDigits		6

## 4.3 Locations

### 4.3.1 AlternativeIdentifier

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

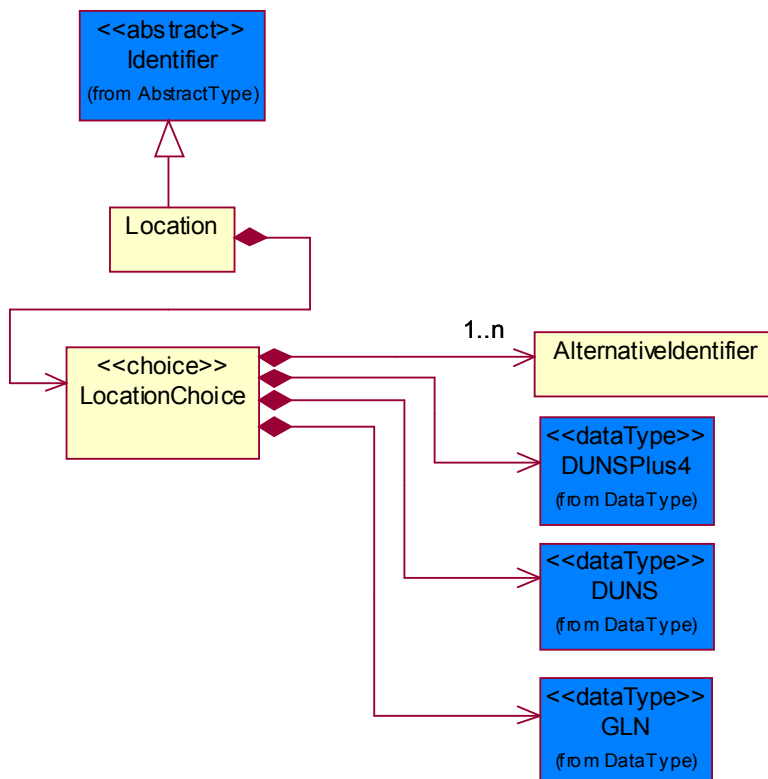


**Figure 4-8 AlternativeIdentifier**

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.).

### 4.3.2 Location

The business document must specify a location.



**Figure 4-9 Location**

Composition	Cardinality	Type	Documentation
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LocationChoice	1	LocationChoice	
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### 4.3.3 LocationChoice

Composition	Cardinality	Type	Documentation
DUNSPlus4	1	DUNSPlus4	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.

### 4.3.4 PhysicalAddress

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

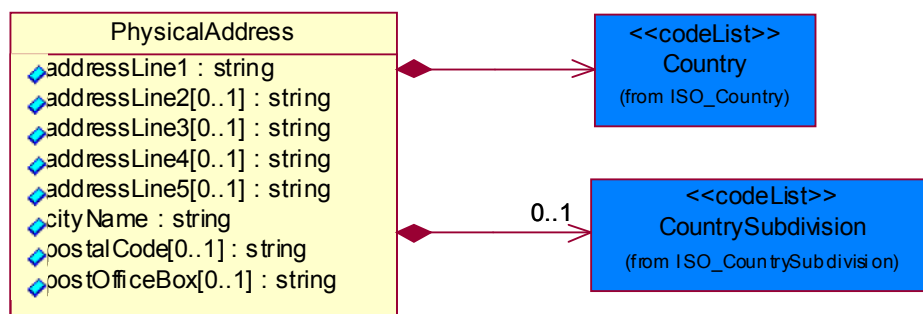


Figure 4-10 PhysicalAddress

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.

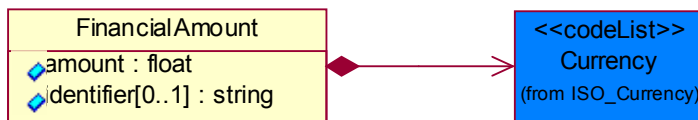
Composition	Cardinality	Type	Documentation
Country	1	Country	For representation of

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

## 4.4 MonetaryExpression

### 4.4.1 FinancialAmount

The business document must express financial amounts.



**Figure 4-11 FinancialAmount**

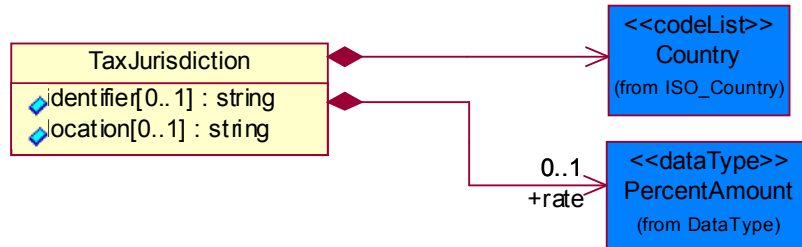
Attribute	Type	Documentation
amount	float	Specifies the monetary amount.
identifier[0..1]	string	Identifier is a unique identifier to which the specific price is tied - ie. promotion name/program.

Composition	Cardinality	Type	Documentation
Currency	1	Currency	For representation of Currency codes RosettaNet has adopted ISO 4217; 1995. The British Standards

			<p>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></p> <p>If you need more information about the ISO standard please contact ISO for more details.</p>
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#### 4.4.2 TaxJurisdiction

The business document must identify the specific tax collection authority.



**Figure 4-12 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.

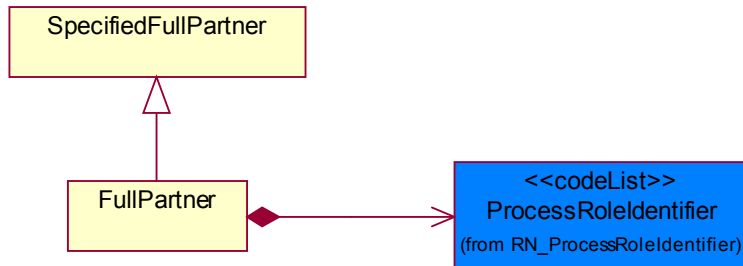
Composition	Cardinality	Type	Documentation
rate	0..1	PercentAmount	This object represents the tax rate.
Country	1	Country	For representation of Country name RosettaNet has adopted ISO 3166-3; 1999. Refer to the following web page to get the latest version of the standard: <a href="http://www.iso.ch/iso/en/prods-services/iso3166ma/02iso-3166-code-lists/index.html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



## 4.5 PartnerIdentification

### 4.5.1 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.

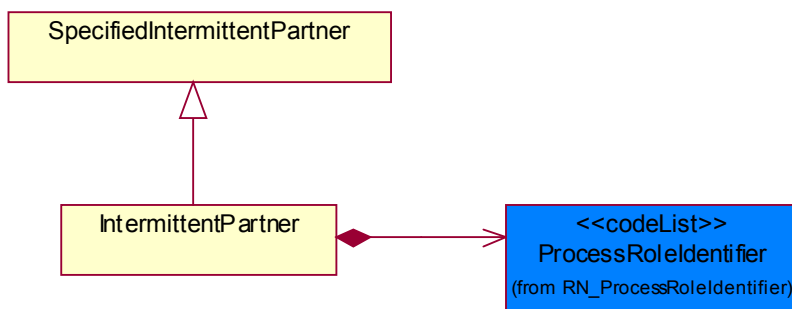


**Figure 4-13 FullPartner**

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.

### 4.5.2 IntermittentPartner

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



**Figure 4-14 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.

### 4.5.3 KnownPartner

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

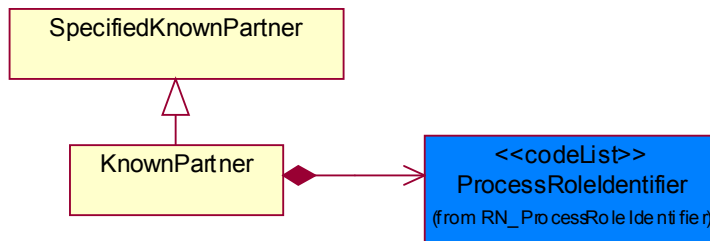


Figure 4-15 KnownPartner

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.

### 4.5.4 KnownPartnerContact

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

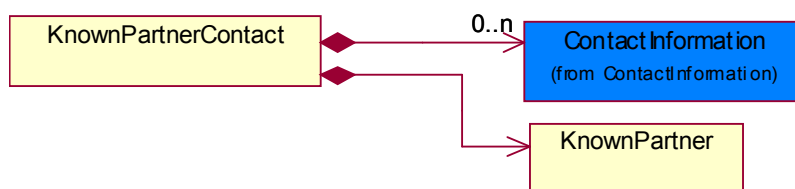


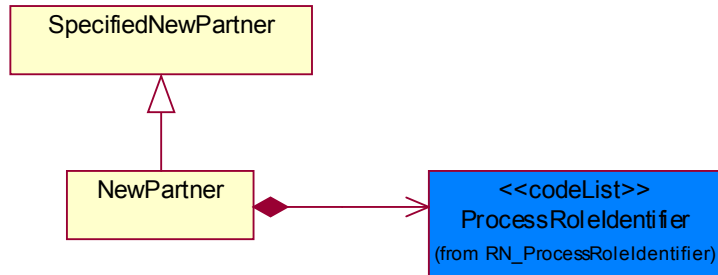
Figure 4-16 KnownPartnerContact

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.
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#### 4.5.5 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.

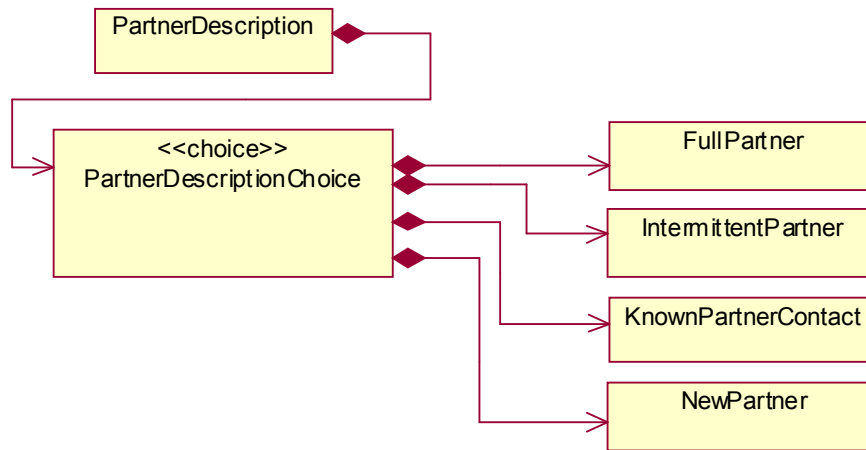


**Figure 4-17 NewPartner**

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.

#### 4.5.6 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 4-18 PartnerDescription**

Composition	Cardinality	Type	Documentation
PartnerDescriptionChoice	1	PartnerDescriptionChoice	

#### 4.5.7 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.
--	--	--	---

#### 4.5.8 PartnerIdentification

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

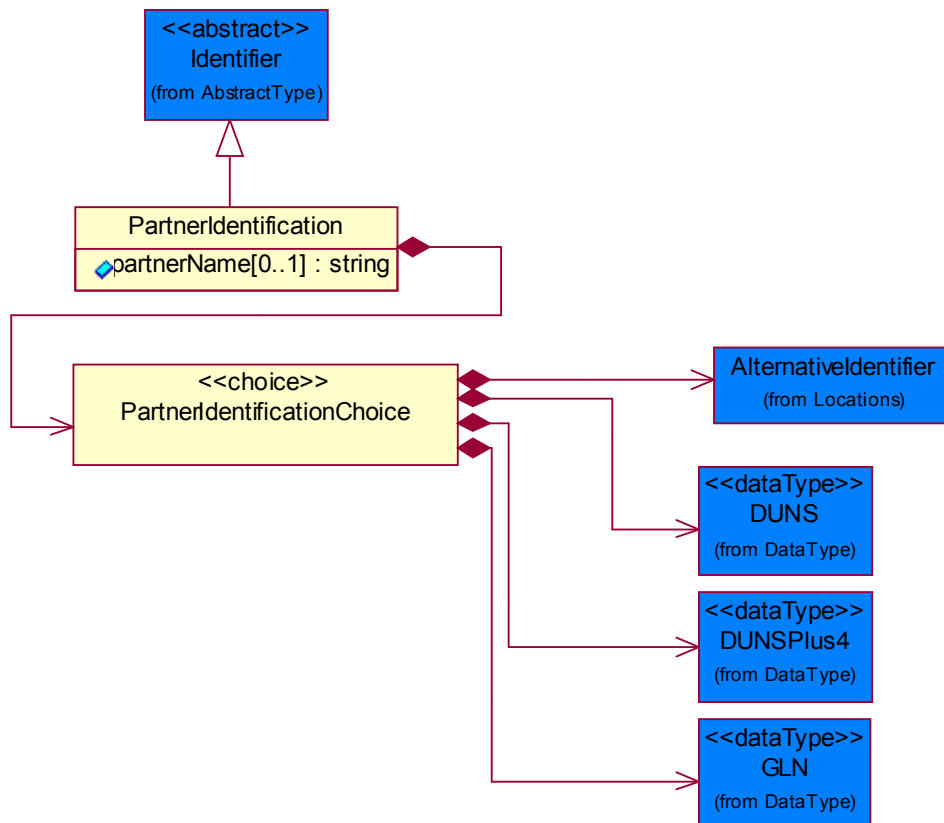


Figure 4-19 PartnerIdentification

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

Composition	Cardinality	Type	Documentation
PartnerIdentificationChoice	1	PartnerIdentificationChoice	

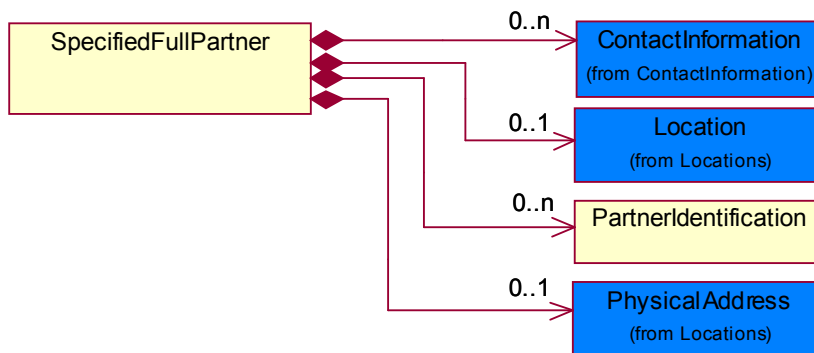
#### 4.5.9 PartnerIdentificationChoice

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.
DUNSPus4	1	DUNSPus4	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.

#### 4.5.10 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.

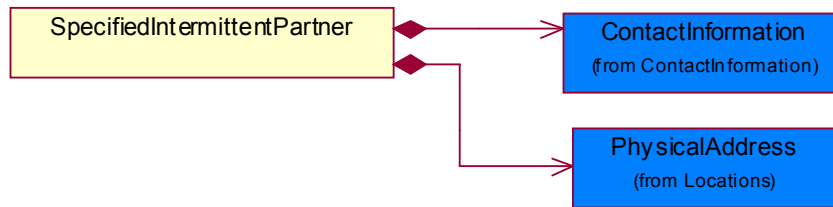


**Figure 4-20 SpecifiedFullPartner**

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.

#### 4.5.11 SpecifiedIntermittentPartner

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



**Figure 4-21 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.

#### 4.5.12 SpecifiedKnownPartner

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

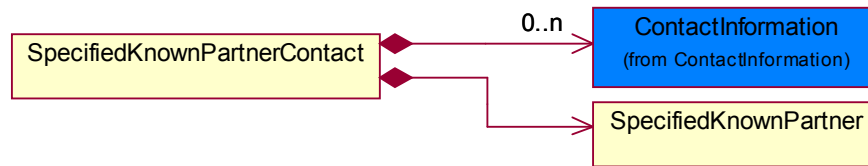


**Figure 4-22 SpecifiedKnownPartner**

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

#### 4.5.13 SpecifiedKnownPartnerContact

The business document must describe the trading partners in the business transaction and allow for a identification of an individual of the trading partner.

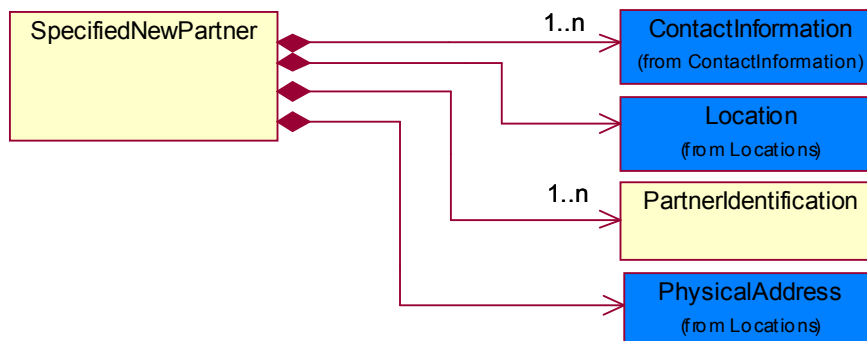


**Figure 4-23 SpecifiedKnownPartnerContact**

Composition	Cardinality	Type	Documentation
SpecifiedKnownPartner	1	SpecifiedKnownPartner	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.

#### 4.5.14 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 4-24 SpecifiedNewPartner**

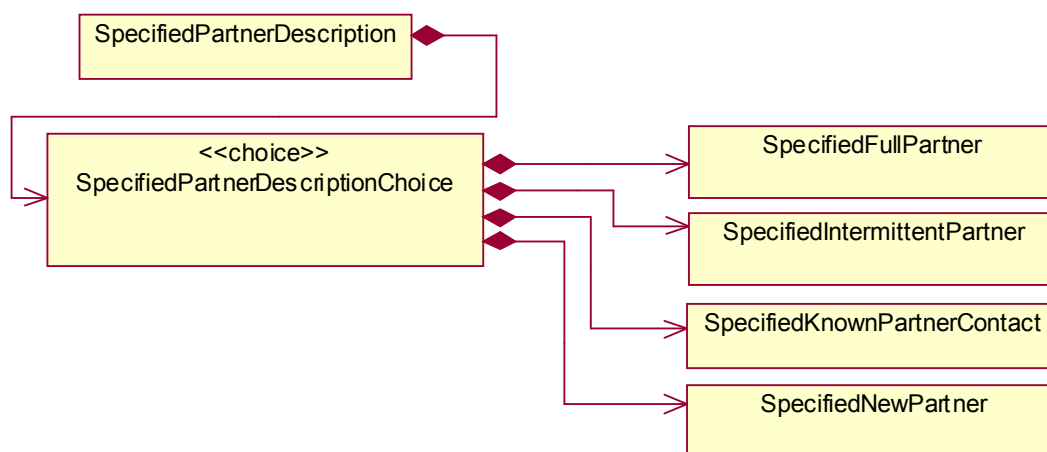
Composition	Cardinality	Type	Documentation
ContactInformation	1..n	ContactInformation	The business document must allow for the identification of the name of the department, service or individual to be



			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.

#### 4.5.15 SpecifiedPartnerDescription

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 4-25 SpecifiedPartnerDescription**

Composition	Cardinality	Type	Documentation
SpecifiedPartnerDescriptionChoice	1	SpecifiedPartnerDescriptionChoice	

#### 4.5.16 SpecifiedPartnerDescriptionChoice

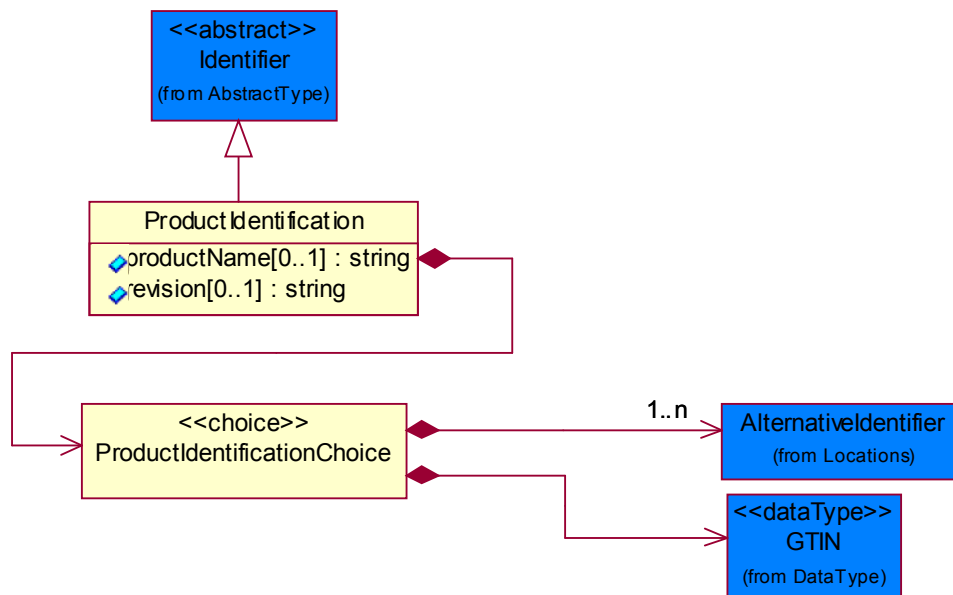
Composition	Cardinality	Type	Documentation
SpecifiedKnownPartnerContact	1	SpecifiedKnownPartnerContact	The business document must describe the trading partners in the business transaction and allow for a identification of an individual of the trading partner.

SpecifiedIntermittentPartner	1	SpecifiedIntermittent Partner	The business document must describe a physical address for a delivery.
SpecifiedNewPartner	1	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.
SpecifiedFullPartner	1	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.

## 4.6 ProductIdentification

### 4.6.1 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	

## 4.6.2 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).

## 4.7 CodeList

### 4.7.1 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](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.

#### 4.7.4 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. **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	[RFC2220]
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]
application/EDI-X12	[RFC1767]
application/eshop	[Katz]
application/font-tdpfr	[RFC3073]
application/http	[RFC2616]
application/hyperstudio	[Domino]
application/iges	[Parks]
application/index	[RFC2652]
application/index.cmd	[RFC2652]
application/index.obj	[RFC2652]
application/index.response	[RFC2652]
application/index.vnd	[RFC2652]
application/iotp	[RFC2935]
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]
application/oda	[RFC2045,RFC2046]
application/ogg	[RFC-walleij-ogg-mediatype-08.txt]
application/parityfec	[RFC3009]
application/pdf	[Lindner]
application/pgp-encrypted	[RFC3156]
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]
application/postscript	[RFC2045,RFC2046]
application/prs.alvestrand.titrax-sheet	[Alvestrand]
application/prs.cww	[Rungchavalnont]
application/prs.nprend	[Doggett]
application/prs.plucker	[Janssen]
application/qsig	[RFC3204]
application/reginfo+xml	[RFC-ietf-sipping-reg-event-00.txt]
application/remote-printing	[RFC1486,Rose]
application/riscos	[Smith]
application/rtf	[Lindner]
application/sdp	[RFC2327]
application/set-payment	[Korver]
application/set-payment-initiation	[Korver]
application/set-registration	[Korver]
application/set-registration-initiation	[Korver]
application/sgml	[RFC1874]
application/sgml-open-catalog	[Grosso]
application/sieve	[RFC3028]
application/slate	[Crowley]
application/timestamp-query	[RFC3161]
application/timestamp-reply	[RFC3161]
application/tve-trigger	[Welsh]
application/vemmi	[RFC2122]
application/vnd.3gpp.pic-bw-large	[Meredith]
application/vnd.3gpp.pic-bw-small	[Meredith]
application/vnd.3gpp.pic-bw-var	[Meredith]
application/vnd.3gpp.sms	[Meredith]
application/vnd.3M.Post-it-Notes	[O'Brien]
application/vnd.accpac.simply.aso	[Leow]
application/vnd.accpac.simply.imp	[Leow]
application/vnd.acucobol	[Lubin]
application/vnd.acucorp	[Lubin]
application/vnd.adobe.xfdf	[Perelman]
application/vnd.aether.imp	[Moskowitz]

application/vnd.amiga.ami	[Blumberg]
application/vnd.anser-web-certificate-issue-initiation	[Mori]
application/vnd.anser-web-funds-transfer-initiation	[Mori]
application/vnd.audiograph	[Slusanschi]
application/vnd.blueice.multipass	[Holmstrom]
application/vnd.bmi	[Gotoh]
application/vnd.businessobjects	[Imoucha]
application/vnd.canon-cpdl	[Muto]
application/vnd.canon-lips	[Muto]
application/vnd.cinderella	[Kortenkamp]
application/vnd.claymore	[Simpson]
application/vnd.commerce-battelle	[Applebaum]
application/vnd.commonspace	[Chandhok]
application/vnd.contact.cmsg	[Patz]
application/vnd.cosmocaller	[Dellutri]
application/vnd.ctc-posml	[Kohlhepp]
application/vnd.cups-postscript	[Sweet]
application/vnd.cups-raster	[Sweet]
application/vnd.cups-raw	[Sweet]
application/vnd.curl	[Byrnes]
application/vnd.cybank	[Helmee]
application/vnd.data-vision.rdz	[Fields]
application/vnd.dna	[Searcy]
application/vnd.dpgraph	[Parker]
application/vnd.dreamfactory	[Appleton]
application/vnd.dxr	[Duffy]
application/vnd.ecdis-update	[Buettgenbach]
application/vnd.ecowin.chart	[Olsson]
application/vnd.ecowin.filerequest	[Olsson]
application/vnd.ecowin.fileupdate	[Olsson]
application/vnd.ecowin.series	[Olsson]
application/vnd.ecowin.seriesrequest	[Olsson]
application/vnd.ecowin.seriesupdate	[Olsson]
application/vnd.enliven	[Santinelli]
application/vnd.epson.esf	[Hoshina]
application/vnd.epson.msf	[Hoshina]
application/vnd.epson.quickanime	[Gu]
application/vnd.epson.salt	[Nagatomo]
application/vnd.epson.ssf	[Hoshina]
application/vnd.ericsson.quickcall	[Tidwell]
application/vnd.eudora.data	[Resnick]
application/vnd.fdf	[Zilles]
application/vnd.ffmpeg	[Holstage]
application/vnd.FloGraphIt	[Floersch]
application/vnd.framemaker	[Wexler]
application/vnd.fsc.weblaunch	[D.Smith]
application/vnd.fujitsu.oasys	[Togashi]
application/vnd.fujitsu.oasys2	[Togashi]

application/vnd.fujitsu.oasys3	[Okudaira]
application/vnd.fujitsu.oasysgp	[Sugimoto]
application/vnd.fujitsu.oasysprs	[Ogita]
application/vnd.fujixerox.ddd	[Onda]
application/vnd.fujixerox.docuworks	[Taguchi]
application/vnd.fujixerox.docuworks.binder	[Matsumoto]
application/vnd.fut-misnet	[Pruulmann]
application/vnd.grafeq	[Tupper]
application/vnd.groove-account	[Joseph]
application/vnd.groove-help	[Joseph]
application/vnd.groove-identity-message	[Joseph]
application/vnd.groove-injector	[Joseph]
application/vnd.groove-tool-message	[Joseph]
application/vnd.groove-tool-template	[Joseph]
application/vnd.groove-vcard	[Joseph]
application/vnd.hbci	[Hammann]
application/vnd.hhe.lesson-player	[Jones]
application/vnd.hp-HPGL	[Pentecost]
application/vnd.hp-hpid	[Gupta]
application/vnd.hp-hps	[Aubrey]
application/vnd.hp-PCL	[Pentecost]
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application/vnd.ibm.Minipay	[Herzberg]
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application/vnd.intu.qfx	[Scratchley]
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application/vnd.micrografx.igx	[Prevo]
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application/whoispp-response	[RFC2958]
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audio/AMR-WB	[RFC3267]
audio/basic	[RFC2045,RFC2046]
audio/CN	[RFC3389]

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audio/G728	
audio/G729	
audio/G729D	
audio/G729E	
audio/GSM	
audio/GSM-EFR	
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audio/L20	[RFC3190]
audio/L24	[RFC3190]
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message/disposition-notification	[RFC2298]
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message/partial	[RFC2045,RFC2046]
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message/sip	[RFC3261]
message/sipfrag	[RFC3420]
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multipart/parallel	[RFC2045,RFC2046]
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multipart/report	[RFC1892]
multipart/signed	[RFC1847]
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text/css	[RFC2318]
text/directory	[RFC2425]
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video/DV	[RFC3189]
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video/JPEG	
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video/vnd.vivo	[Wolfe]

#### 4.7.6 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 (A).
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 (cm3/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/cm2).
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.
HNY	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 (inH <sub>2</sub> O-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 ( $\mu$ A).
MCG	Microgram.
MCH	Micromhos ( $\mu$ mhos).
MCK	Microcuries per Kilogram ( $\mu$ ci/kg).
MCL	Microcuries per Gaseous Liter ( $\mu$ c/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/cm2).
MGG	Milligram per Gram (mg/g).
MGL	Microgram per Liter ( $\mu$ g/l).
MGM	Milligram.
MGO	Megohm (MOhm).
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 (μl).
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 H <sub>2</sub> O.
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.

#### 4.7.7 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.

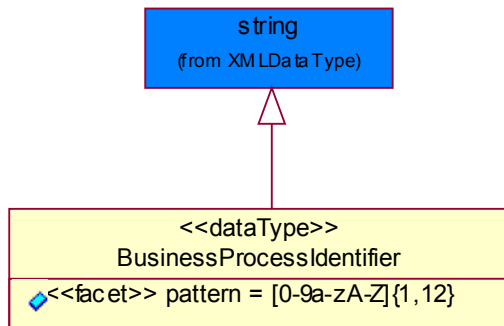
RPB	Repaired By - The collection of business properties used to identify the business partner responsible for the repair or rework of a product.
RQT	Refer Quote To - The partner to whom a quote request is being referred.
RSF	Requested Ship From - The party where the product is requested to be shipped 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.

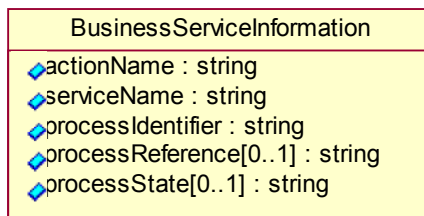


**Figure 5-1 BusinessProcessIdentifier**

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.



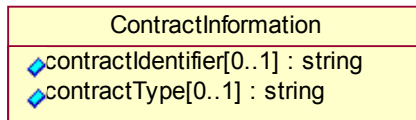
**Figure 5-2 BusinessServiceInformation**

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.

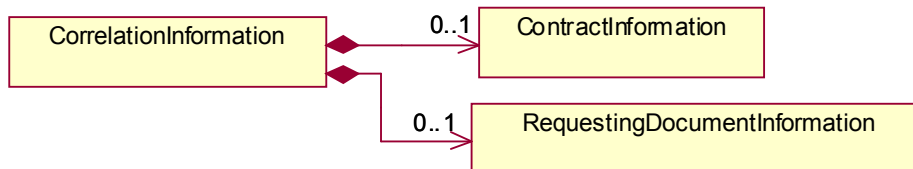


**Figure 5-3 ContractInformation**

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 ContractIndentification. 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.



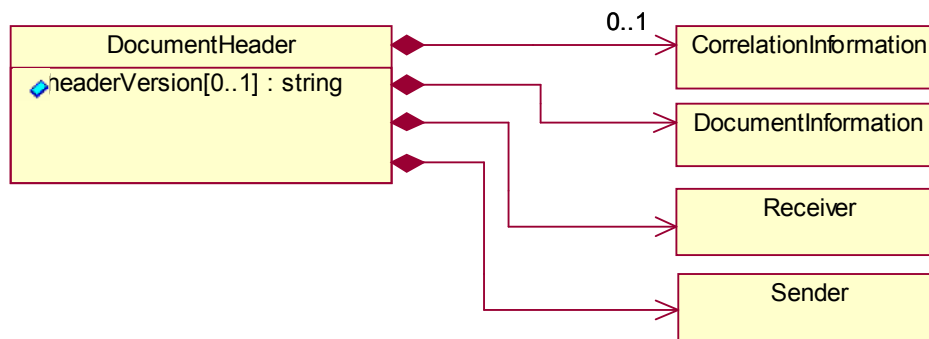
**Figure 5-4 CorrelationInformation**

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.



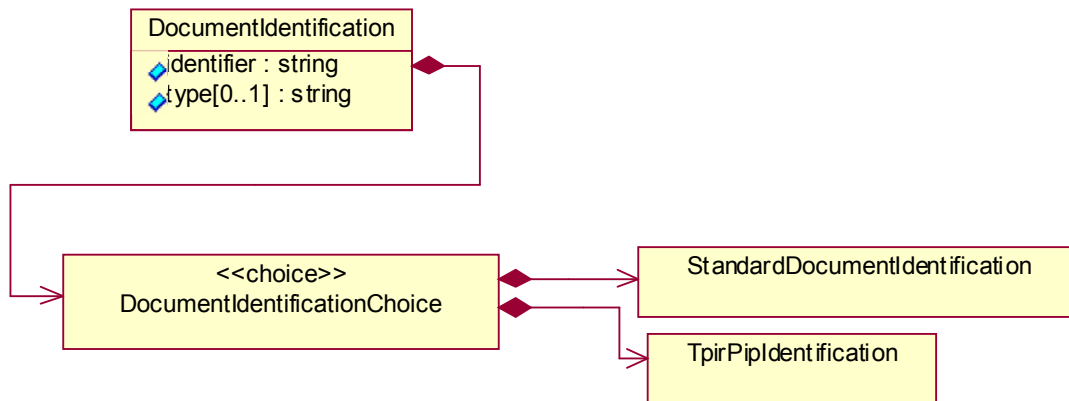
**Figure 5-5 DocumentHeader**

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 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

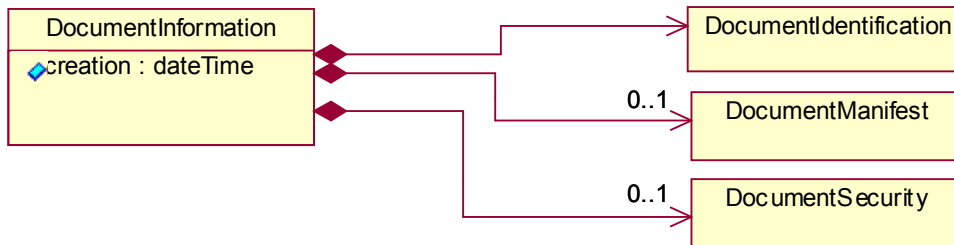
Composition	Cardinality	Type	Documentation
DocumentIdentificationChoice	1	DocumentIdentificationChoice	

## 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.



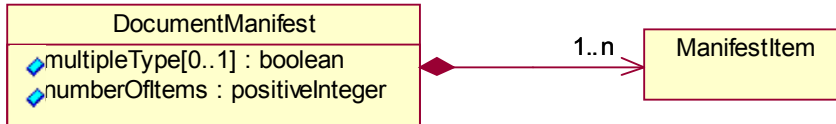
**Figure 5-7 DocumentInformation**

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.



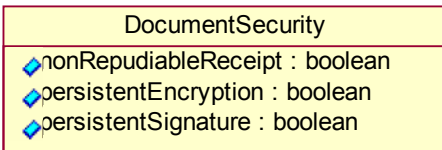
**Figure 5-8 DocumentManifest**

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).

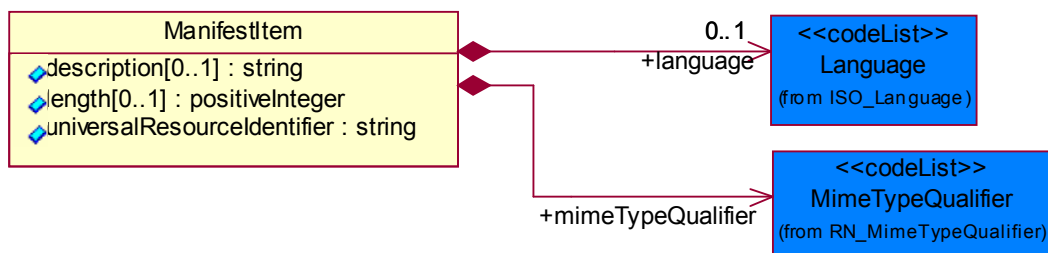


**Figure 5-9 DocumentSecurity**

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).



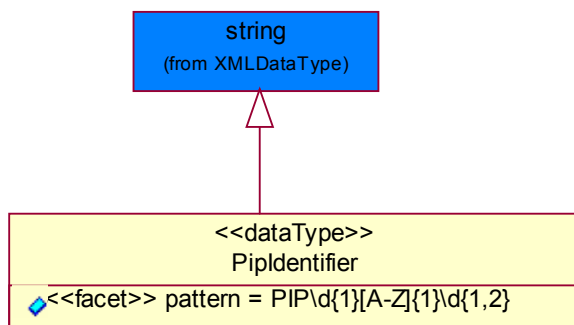
**Figure 5-10 ManifestItem**

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
mimeTypeQualifier	1	MimeTypeQualifier	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]

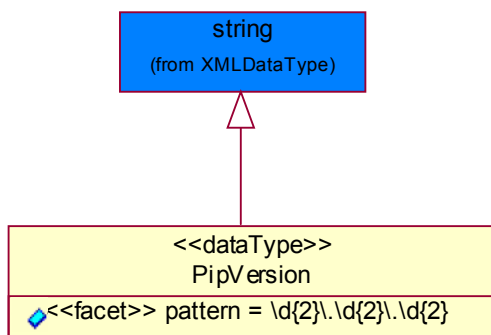


**Figure 5-11 PipIdentifier**

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

## 5.13 PipVersion

PIP version number (i.e. 02.02.00).

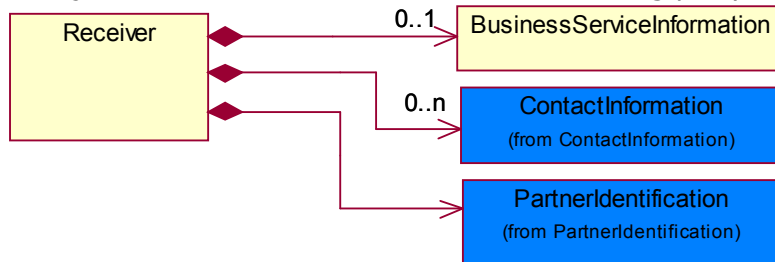


**Figure 5-12 PipVersion**

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.

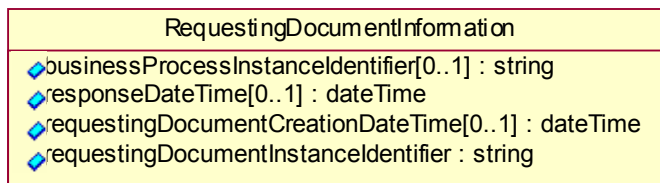


**Figure 5-13 Receiver**

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.

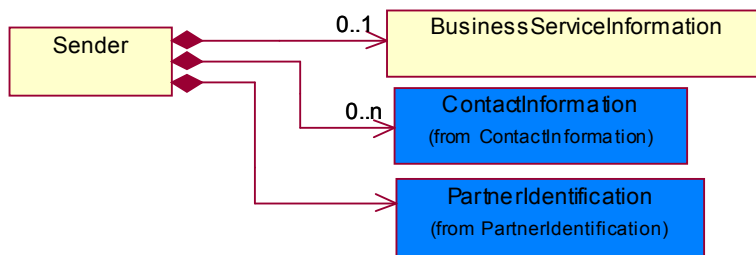


**Figure 5-14 RequestingDocumentInformation**

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.



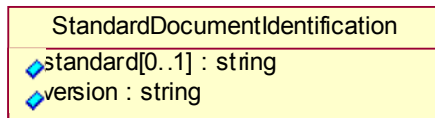
**Figure 5-15 Sender**

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 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.

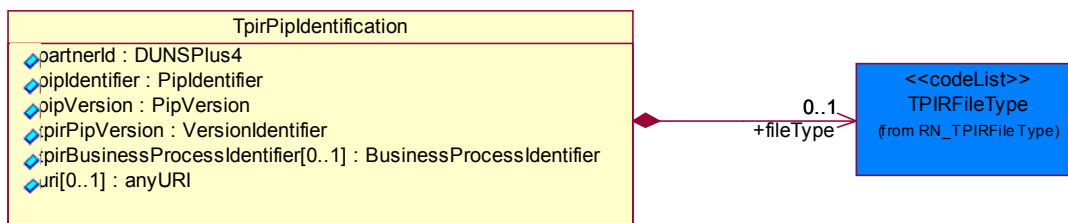


**Figure 5-16 StandardDocumentIdentification**

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.



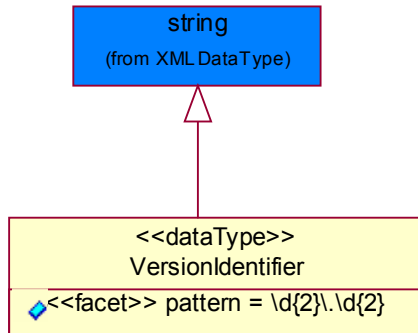
**Figure 5-17 TpirPipIdentification**

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.

### 6.2 boolean

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

### 6.3 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.

### 6.4 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.

### 6.5 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.

## **6.8 integer**

Represents a sequence of decimal digits with an optional leading sign (+ or -). This data type is derived from decimal.

## **6.9 positiveInteger**

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

## **6.10 string**

Represents character string.