

Description of 3C7 Message

PIP® 3C7

Validated 11.04.00

Specification Information

Name Description Of 3C7 Message
PIP Notify Of Self-Billing Invoice

Cluster Order Management
Segment Returns and Finance
Publication Date 8 November 2012

Version Identifier V11.04

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1. Document Management

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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. Listed below are the legal entities that contributed to the design and development of this PIP.

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1.5 Related Documents

- Associated PIP Message Schemas (included with PIP Specification only)
- Description of Partner Interface Process for 3C7
- Message Structure

1.6 Document Version History

| <u>Version</u> | <u>Date</u> | <u>Description</u> | |
|---|-------------------|--------------------------------------|--|
| Validated 11.00.00 19 July 2006 Validated Version | | Validated Version | |
| Validated 11.01.00 | 21 September 2007 | Milestone Program: Schema2Market | |
| Validated 11.02.00 | 28 September 2009 | Validated Version - Maintenance 2009 | |
| Validated 11.03.00 | 30 May 2012 | Updated Version | |
| Validated 11.04.00 | 8 November 2012 | Updated Version | |

1.7 Document Purpose

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

2. Interchange Model

2.1 SelfBillingInvoiceNotification

2.1.1 Interchange Diagram

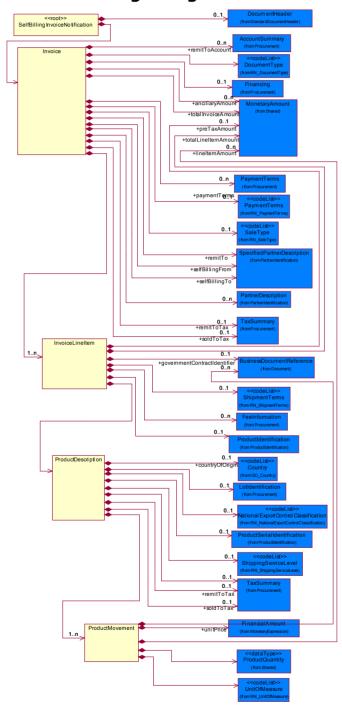


Figure 2-1 Interchange

2.1.2 Dependency Diagram

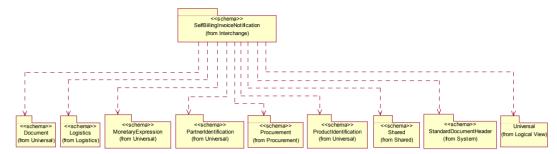


Figure 2-2 Dependency

2.1.3 Invoice

An itemized list of goods or services specifying the price and the terms of sale.

The recommended ProcessRoleIdentifier in PartnerDescription are PUR - Purchased By, SHF - Ship From, SHT - Ship To, SOB - Sold By.

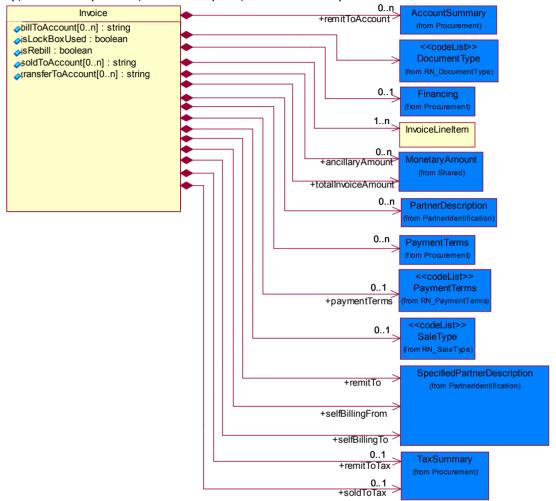


Figure 2-3 Invoice

| Attribute | Type | Documentation |
|-----------------------|---------|---|
| billToAccount[0n] | string | The account number of the party that pays the invoice. |
| 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[0n] | string | The account number of the party that purchases of the product. |
| transferToAccount[0n] | string | The account number of the party that transfers the product. |

| Composition | Cardinality | Туре | Documentation |
|---|-------------|------------------------------|---|
| Financing | 01 | Financing | The collection of business |
| | | | properties that describe |
| | | | financial information. |
| DocumentType | 1 | DocumentType | A code identifying the |
| | | | business context of a |
| | | | document. |
| SaleType | 01 | SaleType | Code identifying the type |
| | | | of sale terms the trading |
| | | | partner bought from the |
| | | <u> </u> | seller. |
| InvoiceLineItem | 1n | InvoiceLineItem | The collection of business |
| | | | properties that describe |
| | | | an invoice entry. |
| remitToAccount | 0n | AccountSummary | The account number of |
| | | | the party to whom |
| | 0.1 | TC | payment is sent. |
| remitToTax | 01 | TaxSummary | The total tax liability of |
| | | | the party to whom |
| soldToTax | 0 1 | To a Common management | payment is sent. |
| SoldToTax | 01 | TaxSummary | The total tax liability of |
| | | | the party that purchases |
| remitTo | 1 | Specified Partner Dose | the product. |
| remitro | 1 | SpecifiedPartnerDesc ription | The partner to which payment for a business |
| | | Приоп | document is sent. |
| selfBillingFrom | 1 | SpecifiedPartnerDesc | The party who initiates |
| Selibilingi tom | 1 | ription | the billing in self-billing |
| | | Tipelon | scenario. |
| selfBillingTo | 1 | SpecifiedPartnerDesc | The party whom the |
| | _ | ription | invoice is addressed to. |
| ancillaryAmount | 0n | MonetaryAmount | Ancillary costs that are |
| , | | , | not included in the line |
| | | | items. |
| totalInvoiceAmou | 1 | MonetaryAmount | The total amount on an |
| nt | | , | invoice. |
| PaymentTerms | 0n | PaymentTerms | The collection of business |
| | | | properties that describe |
| | | | payment terms. |
| paymentTerms | 01 | PaymentTerms | Code identifying the |
| | | | terms that govern the |
| | | | payment for goods and |
| | | | services. |
| PartnerDescriptio | 0n | PartnerDescription | The collection of business |
| n | | | properties that describe a |
| | | | business partners' |
| | | | identity, their contact |
| | | | information, where they |
| | | | are physically located and |
| | | | their function in a supply |
| | | | chain. |

2.1.4 InvoiceLineItem

The collection of business properties that describe an invoice entry.

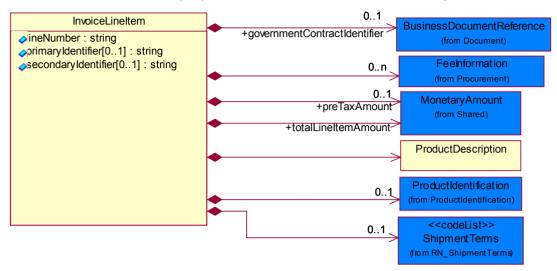


Figure 2-4 InvoiceLineItem

| Attribute | Type | Documentation |
|-------------------------|--------|---|
| lineNumber | string | Number of the line in the document. |
| primaryIdentifier[01] | string | A unique tracking number (assigned by the carrier) to a package for the duration of a shipment, through all intermediaries. |
| secondaryIdentifier[01] | string | A tracking number that will generally be carrier specific and will not be bound to a particular format. |

| Composition | Cardinality | Туре | Documentation |
|----------------------------------|-------------|-------------------------------|--|
| ShipmentTerms | 01 | ShipmentTerms | Code identifying the terms under which a product is shipped. |
| governmentContr actIdentifier | 01 | BusinessDocument Reference | The unique number that identifies a government contract. |
| ProductDescriptio n | 1 | ProductDescription | The collection of business properties that describe a shipment receipt notification entry. |
| ProductIdentificati on | 01 | ProductIdentificatio n | The object provides the identifier(s) of a product. |
| preTaxAmount | 01 | MonetaryAmount | The gross amount prior to calculating taxes. |
| totalLineItemAmo unt | 1 | MonetaryAmount | The monetary total associated with a line item. |
| FeeInformation | 0n | FeeInformation | |

2.1.5 ProductDescription

The collection of business properties that describe a shipment receipt notification entry.

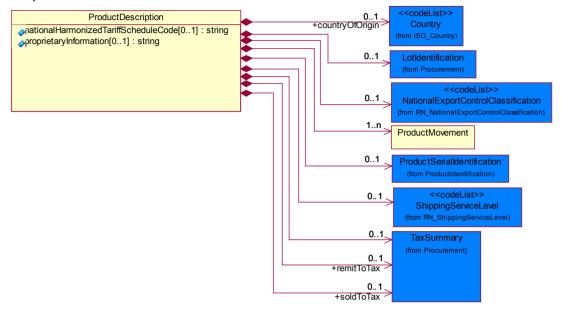


Figure 2-5 ProductDescription

| Attribute | Type | Documentation |
|---|--------|---|
| nationalHarmonizedTarif fScheduleCode[01] | string | Code identifying product classification or procedure classification for international shipping. |
| proprietaryInformation[01] | string | A free form textual description of information, relating to a product. |

| Composition | Cardinality | Туре | Documentation |
|---|-------------|--------------------------------------|---|
| countryOfOrigin | 01 | Country | Country where product originates. |
| LotIdentification | 01 | LotIdentification | This object identifies a lot which associates the product with a specific group of products with some similar attributes. |
| ProductMovement | 1n | ProductMovement | The collection of business properties that describes the log of usage or consumption or arrival of a product. |
| NationalExportCo ntrolClassification | 01 | NationalExportCon trolClassification | Code identifying product classification for export regulation. |
| ProductSerialIden tification | 01 | ProductSerialIdenti fication | The object provides the serial identifier of a product. |

| TaxSummary | 01 | TaxSummary | The collection of business properties that describe the total tax information for a local, regional or national taxing authority. |
|-----------------------|----|-----------------------|---|
| remitToTax | 01 | TaxSummary | The total tax liability of the party to whom payment is sent. |
| soldToTax | 01 | TaxSummary | The total tax liability of the party that purchases the product. |
| ShippingServiceL evel | 01 | ShippingServiceLe vel | Code identifying the shipping service level, e.g., overnight, same day. |

2.1.6 ProductMovement

The collection of business properties that describes the log of usage or consumption or arrival of a product.

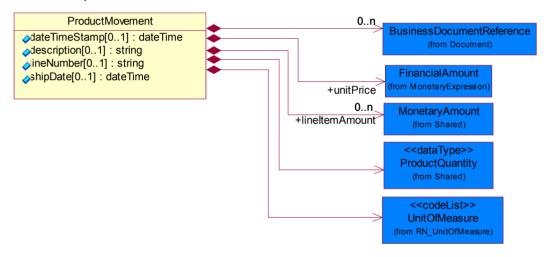


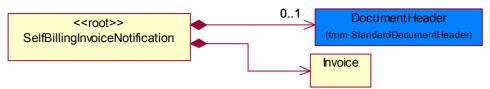
Figure 2-6 ProductMovement

| Attribute | Туре | Documentation |
|-------------------|----------|---|
| dateTimeStamp[01] | dateTime | Specifies an instance in time. Based on the ISO 8601 specification where "YYYY" represents the year, "MM" the month and "DD" the day. The letter "T" is the date/time separator and "hh", "mm", "ss.sss" represent hour, minute and second respectively. This representation is immediately followed by a "Z" to indicate Coordinated Universal Time. Informal format: YYYYMMDDThhmmss. |
| description[01] | string | Types of possible goods movements and code value set to be agreed between parties. Material consumption from consignment stock can happen under the following scenarios: · when material is taken into use on the production line, · when material is send to subcontractor, · when material is taken to cost center i.e for sample purposes or · when material is required for delivery. |
| lineNumber[01] | string | Number of the line in the document. |
| shipDate[01] | datetime | The (GMT) local date and time the product is shipped. |

| Composition | Cardinality | Туре | Documentation |
|-----------------|-------------|-----------------|---------------------------------|
| BusinessDocumen | 0n | BusinessDocume | The business document |
| tReference | | ntReference | reference object allows for |
| | | | the indirect referencing of a |
| | | | relationship to other business |
| | | | related documents. |
| UnitOfMeasure | 1 | UnitOfMeasure | Code identifying a product |
| | | | unit of measure. |
| unitPrice | 1 | FinancialAmount | Agreed upon sale price for |
| | | | each unit ordered. |
| lineItemAmount | 0n | MonetaryAmount | The monetary value of line |
| | | | item (unit price * qty) or line |
| | | | item allowance. |
| ProductQuantity | 1 | ProductQuantity | A quantity specifying the |
| | | | number of product units. |

2.1.7 SelfBillingInvoiceNotification

A message wrapper for 3C7.



Validated 11.04.00

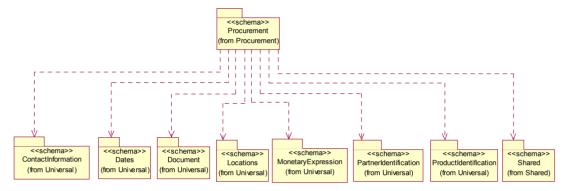
Figure 2-7 SelfBillingInvoiceNotification

| Composition | Cardinality | Туре | Documentation |
|----------------|-------------|----------------|--|
| DocumentHeader | 01 | 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 PUR - Purchased By, SHF - Ship From, SHT - Ship To, SOB - Sold By. |

3. Domain ModelProcurement

3.1.1 Procurement

3.1.1.1 Dependency Diagram



Validated 11.04.00

Figure 3-1 Dependency

3.1.1.2 AccountSummary

The collection of business properties that summarizes an account information.

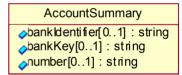


Figure 3-2 AccountSummary

| Attribute | Type | Documentation |
|--------------------|--------|---|
| bankIdentifier[01] | 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[01] | string | Bank sort code required by some banks to enable transfers of funds. |
| number[01] | string | Identification number of an account. |

3.1.1.3 CurrencyConversion

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

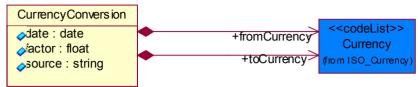


Figure 3-3 CurrencyConversion

| 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 | Туре | 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. |

3.1.1.4 DayOfMonth

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

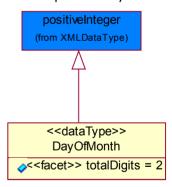


Figure 3-4 DayOfMonth

| 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 http://www.w3.org/TR/2001/REC- |
| | | xmlschema-2-20010502/#element-totalDigits . |

3.1.1.5 Discounts

The collection of business properties that describe payment discounts.



Figure 3-5 Discounts

| Attribute | Туре | Documentation |
|-------------|---------------|---|
| day[01] | DayOfMonth | The specific day of the month a payment is |
| | | required in order to receive a discount. |
| days[01] | DayOfMonth | The number of days within which a payment is |
| | | required in order to receive a discount. |
| percent[01] | PercentAmount | The financial percent representing a reduction to |
| | | the total amount due. |

3.1.1.6 FeeInformation

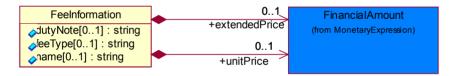


Figure 3-6 FeeInformation

| Attribute | Type | Documentation | |
|--------------|--------|---|--|
| dutyNote[01] | string | Text that contains information on the duty supported. | |
| feeType[01] | string | The type of additional fee added to the line item. | |
| name[01] | string | The name of the fee. | |

| Composition | Cardinality | Туре | Documentation |
|---------------|-------------|-----------------|-------------------------------------|
| extendedPrice | 01 | FinancialAmount | Total price for a product quantity. |
| unitPrice | 01 | FinancialAmount | Agreed upon sale price for each |
| | | | unit ordered. |

3.1.1.7 Financing

The collection of business properties that describe financial information.

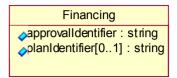


Figure 3-7 Financing

| Attribute | Туре | Documentation |
|--------------------|--------|---|
| approvalIdentifier | string | The unique number that identifies the approval of a request. |
| planIdentifier[01] | string | The unique number that identifies the tool by which the payment will be made. |

3.1.1.8 LotIdentification

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

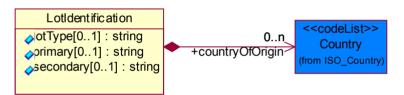


Figure 3-8 LotIdentification

| Attribute | Туре | Documentation | |
|---------------|--------|---|--|
| lotType[01] | string | Identify the type of the lot whether it's for Production or | |
| | | Engineering. | |
| primary[01] | string | The primary lot identifier. | |
| secondary[01] | string | The secondary lot identifier. | |

| Composition | Cardinality | Туре | Documentation |
|-----------------|-------------|------|------------------------------------|
| countryOfOrigin | 0n Country | | This object represents the country |
| | | | where the product originates. |

3.1.1.9 NetTerms

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



Figure 3-9 NetTerms

| Attribute | Туре | Documentation | |
|-----------|-----------------|--|--|
| day[01] | gDay | The specific day of the month a payment is due | |
| | | without incurring late charges. | |
| days[01] | positiveInteger | The number of days within which a payment is due | |
| | | without incurring late charges. | |

3.1.1.10 OtherTaxes

The collection of business properties that describe other tax information.

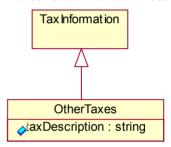


Figure 3-10 OtherTaxes

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

3.1.1.11 PaymentTerms

The collection of business properties that describe payment terms.

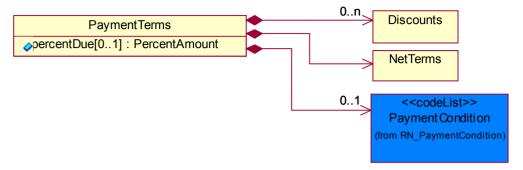


Figure 3-11 PaymentTerms

| Attribute | Туре | Documentation | | |
|----------------|---------------|--|--|--|
| percentDue[01] | PercentAmount | The amount owed expressed as a percentage. | | |

| Composition | Cardinality | Туре | Documentation |
|------------------|-------------|------------------|--|
| PaymentCondition | 01 | PaymentCondition | A code identifying the conditions under which payment will be made. |
| Discounts | 0n | Discounts | The collection of business properties that describe payment discounts. |
| NetTerms | 1 | NetTerms | The collection of business properties that describe net payment due terms. |

3.1.1.12 TaxInformation

The collection of business properties that describe tax information.

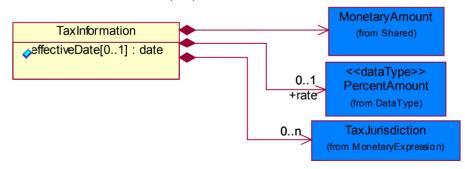


Figure 3-12 TaxInformation

| Attribute Type | | Documentation | |
|-------------------|------|--|--|
| effectiveDate[01] | date | The date tax become effective or applicable. | |

| Composition | Cardinality | Туре | Documentation |
|-------------|-------------|------|---------------|
| | | | |

| TaxJurisdiction | 0n | TaxJurisdiction | The business document must identify the specific tax collection authority. |
|-----------------|----|-----------------|--|
| rate | 01 | 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. |

3.1.1.13 TaxPhrase

The collection of business properties that describe VAT specific information.

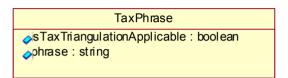


Figure 3-13 TaxPhrase

| Attribute | Туре | Documentation |
|----------------------------------|---------|---|
| isTaxTriangulationApplic able | 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. |

3.1.1.14 TaxSummary

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

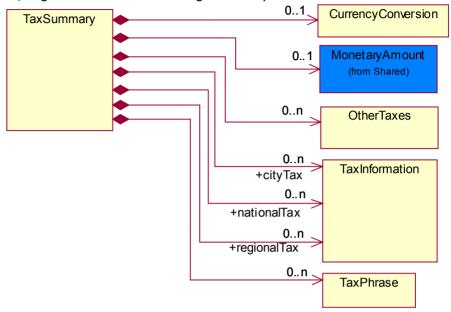


Figure 3-14 TaxSummary

| Composition | Cardinality | Туре | Documentation |
|------------------------|-------------|--------------------|--|
| CurrencyConversi on | 01 | CurrencyConversion | The collection of business properties that describe the exchange of money in circulation. |
| TaxPhrase | 0n | TaxPhrase | The collection of business properties that describe VAT specific information. |
| cityTax | 0n | TaxInformation | The collection of business properties that describe tax information for the city levying the tax. |
| nationalTax | 0n | TaxInformation | The collection of business properties that describe tax information for the country levying the tax. |
| regionalTax | 0n | TaxInformation | The collection of business properties that describe tax information for the region levying the tax. |
| MonetaryAmount | 01 | MonetaryAmount | The collection of business properties that describe the monetary amount defined by a specified currency. |
| OtherTaxes | 0n | 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 SaleType

Code identifying the type of sale terms the trading partner bought from the seller.

| Name | Documentation |
|------|---|
| CRD | Credit. |
| CSG | Product has been re-sold. |
| CSH | Cash. |
| INS | Installment. |
| LSE | Product has been leased. |
| PUR | Product has been purchased or bought. |
| RMK | Product has been repackaged, refurbished, etc. and has been sold. |

3.1.2.4 PaymentTerms

Code identifying the terms that govern the payment for goods and services.

| Name | Documentation |
|------|--|
| 113 | 1% 10 Days Net 30 |
| 180 | Net 180 days. |
| 197 | Net 197 dsays. |
| 1N3 | 1% 10 Days Net 30 |
| 562 | Net 562 days. |
| ACA | Available Credit Applied. |
| BDE | Bad Debt. |
| CAC | COD Cashier's Check. |
| CCC | COD Company Check. |
| CCD | COD Cashier's Check Deduction. |
| COD | COD cash. |
| CPD | COD Company check Deduction. |
| DSC | Discover Card. |
| EFT | EFT. |
| IMC | International Master Card. |
| IVC | International Visa Card. |
| L30 | Letter of Credit-30 days after shipment. |
| L45 | Letter of Credit-45 days after shipment. |
| LOC | Letter of Credit-at site. |
| MAC | Master Card. |
| N01 | Net 1 day. |
| N05 | Net 5 days. |
| N10 | Net 10 days. |
| N15 | Net 15 days. |
| N20 | Net 20 days. |
| N2A | Net 20 10. |
| N2B | Net 20 15. |
| N30 | Net 30 days. |
| N35 | Net 35 days. |
| N3A | Net 30 10. |
| N3B | Net 30 15. |
| N45 | Net 45 days. |

| N4A | Net 45 10. |
|-----|--|
| N4B | Net 45 15. |
| N60 | Net 60 days. |
| N90 | Net 90 days. |
| NOT | No terms. |
| P30 | Net 30 plus. |
| PCC | Prepay Credit Card. |
| PNA | 0.4% net 10. |
| PNB | 1% 10 days net 10. |
| PNC | 1% 10 days net 45. |
| PND | 1% 10th/25th net 30. |
| PNE | 1% 15 days net 30. |
| PNF | 1% 30 days net 30. |
| PNG | 1% net 45. |
| PNH | 2% 10 days net 30. |
| PNI | 2% 15 days net 30. |
| PPC | Prepay check. |
| PPD | Prepaid. |
| PPW | Prepay wire. |
| PWT | 1% Wire transfer prepay. |
| RPO | As per the agreement referenced in the PO. |
| S60 | Net 60 spare parts. |
| VDT | Vendor Terms. |
| VIS | Visa. |
| WTR | Wire transfer. |

3.2 Logistics

3.2.1 Logistics

3.2.1.1 Dependency Diagram

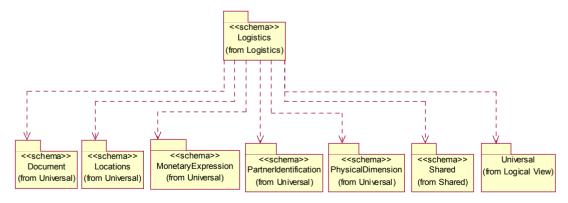


Figure 3-15 Dependency

3.2.2 CodeList

3.2.2.1 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 |
| SER | have been completed. |
| SEK | 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

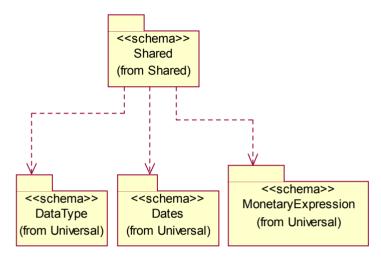


Figure 3-16 Dependency

3.3.1.2 MonetaryAmount

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

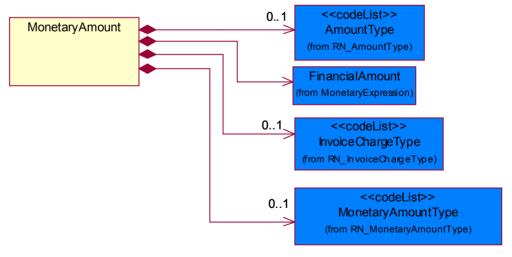


Figure 3-17 MonetaryAmount

| Composition | Cardinality | Туре | Documentation |
|------------------------|-------------|--------------------|---|
| FinancialAmount | 1 | FinancialAmount | The business document must express financial amounts. |
| InvoiceChargeTyp e | 01 | InvoiceChargeType | Code identifying the values for the types of charges contained in an invoice. |
| MonetaryAmount Type | 01 | MonetaryAmountType | Code identifying whether the monetary amount is a debit or credit. |
| AmountType | 01 | AmountType | Code identifying the type of monetary amount. |

3.3.1.3 ProductQuantity

A quantity specifying the number of product units.

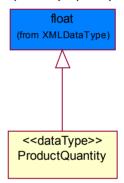


Figure 3-18 ProductQuantity

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. |

| - TO | E: A CI |
|------|---|
| 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. |
| | |

| TDC | |
|------|--------------------|
| TRG | Tracking - Ground. |
| 1110 | i riacking 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.

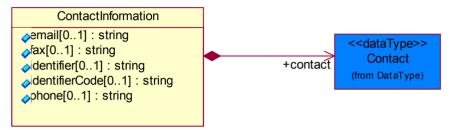


Figure 4-1 ContactInformation

| Attribute | Type | Documentation |
|--------------------|--------|--|
| email[01] | string | The electronic mail for the specified contact. |
| fax[01] | string | The fax number for the specified contact. |
| identifier[01] | string | Identifies the role of the contact (i.e. Service |
| | | Technician, Account Manager) in the Business Process. |
| identifierCode[01] | string | IdentifierCode is a unique security authorization code |
| | | to identify the contact- ie. badge ID. |
| phone[01] | string | The telephone number for the specified contact. |

| Composition | Cardinality | Туре | 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.

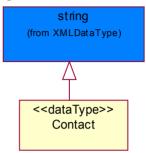


Figure 4-2 Contact

4.2.2 **DUNS**

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

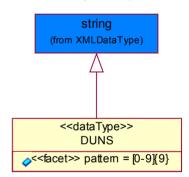


Figure 4-3 DUNS

| Attribute | Туре | Documentation |
|-----------|------|---------------|
| pattern | | [0-9]{9} |

4.2.3 DUNSPlus4

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

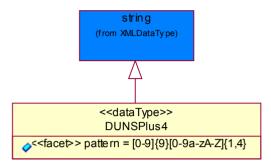


Figure 4-4 DUNSPlus4

| 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.

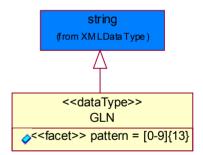


Figure 4-5 GLN

| Attribute | Туре | Documentation |
|-----------|------|---------------|
| pattern | | [0-9]{13} |

4.2.5 GTIN

Global Trade Identification Number (GTIN).

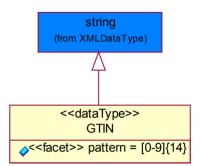


Figure 4-6 GTIN

| Attribute | Туре | Documentation |
|-----------|------|---------------|
| pattern | | [0-9]{14} |

4.2.6 PercentAmount

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

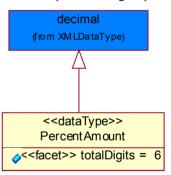


Figure 4-7 PercentAmount

| Attribute | Туре | Documentation |
|-------------|------|---------------|
| totalDigits | | 6 |

4.3 Document

4.3.1 BusinessDocumentReference

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

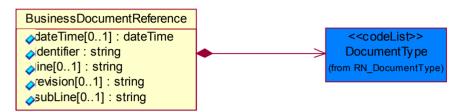


Figure 4-8 BusinessDocumentReference

| Attribute | Туре | Documentation |
|--------------|----------|---|
| dateTime[01 | dateTime | The date-time stamp indicating on the referenced |
|] | | business document. |
| identifier | string | Unique identification of the referenced business |
| | | document. |
| line[01] | string | References the specific line number of the specified |
| | | business document. |
| revision[01] | string | Referenced the revision of the specified business |
| | | document. |
| subLine[01] | string | References the specific subline number of the specified |
| | | business document. |

| Composition | Cardinality | Туре | Documentation |
|--------------|-------------|--------------|---------------------------------|
| DocumentType | 1 | DocumentType | A code identifying the business |
| | | | context of a document. |

4.4 Locations

4.4.1 AlternativeIdentifier

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

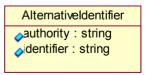


Figure 4-9 AlternativeIdentifier

| 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.). | | |

4.4.2 Location

The business document must specify a location.

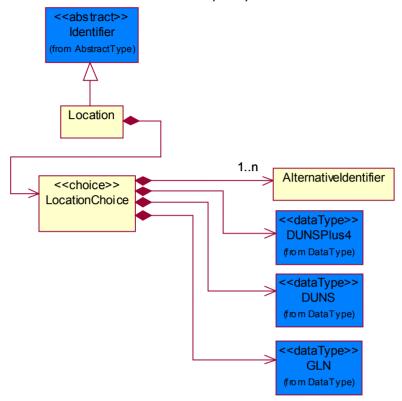


Figure 4-10 Location

| Composition Cardinality | | Туре | Documentation |
|-------------------------|---|----------------|---------------|
| LocationChoice | 1 | LocationChoice | |

4.4.3 LocationChoice

| Composition | Cardinality | Туре | 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. |
| AlternativeIdentifi | 1n | AlternativeIdentifier | Identifies the specified code |
| er | | | 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. |

4.4.4 PhysicalAddress

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

Validated 11.04.00

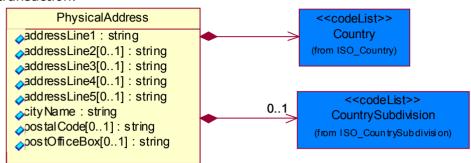


Figure 4-11 PhysicalAddress

| Attribute | Type | Documentation |
|-------------------------|--------|---|
| addressLine1 | string | The first line of a physical address. |
| addressLine2[01] | string | The second line of a physical address. |
| addressLine3[01] | string | The third line of a physical address. |
| addressLine4[01] | string | The fourth line of a physical address. |
| addressLine5[01] string | | The fifth line of a physical address. |
| cityName | string | The name of a city. |
| postalCode[01] | string | Identifying geographic location as specified by a |
| | | national postal code. |
| postOfficeBox[01] | string | The Post Office Box identifier used to identify a |
| | | party's post office box. |

| Composition | Cardinality | Туре | 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: 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. |
| CountrySubdivisio n | 01 | CountrySu bdivision | 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. |

4.5 MonetaryExpression

4.5.1 FinancialAmount

The business document must express financial amounts.

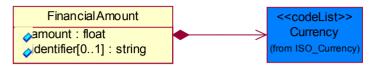


Figure 4-12 FinancialAmount

| Attribute | Type | Documentation |
|----------------|--------|--|
| amount | float | Specifies the monetary amount. |
| identifier[01] | string | Identifier is a unique identifier to which the specific price is |
| | | tied - ie. promotion name/ program. |

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

4.5.2 TaxJurisdiction

The business document must identify the specific tax collection authority.

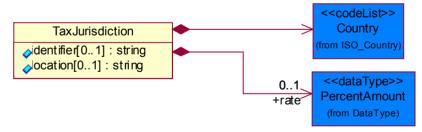


Figure 4-13 TaxJurisdiction

| Attribute | Type | Documentation | |
|--|--------|--|--|
| identifier[01] | string | Unique identification for a taxing authority. | |
| location[01] string Identification of the tax collection authority location. | | Identification of the tax collection authority location. | |

| Composition | Cardinality | Туре | Documentation |
|-------------|-------------|---------------|---|
| rate | 01 | 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: 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. |

4.6 PartnerIdentification

4.6.1 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.

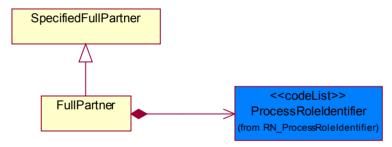


Figure 4-14 FullPartner

| Composition | Cardinality | Туре | Documentation |
|---------------------------|-------------|-----------------------|---|
| ProcessRoleIdenti fier | 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. |

4.6.2 IntermittentPartner

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

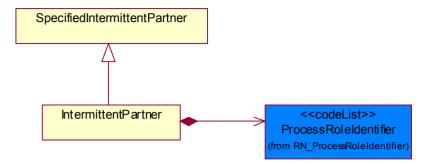


Figure 4-15 IntermittentPartner

| Composition | Cardinality | Туре | Documentation |
|------------------------|-------------|-----------------------|---|
| ProcessRoleIdenti fier | 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. |

4.6.3 KnownPartner

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

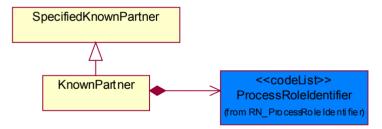


Figure 4-16 KnownPartner

| Composition | Cardinality | Туре | Documentation |
|---------------------------|-------------|-----------------------|---|
| ProcessRoleIdenti fier | 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. |

4.6.4 KnownPartnerContact

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

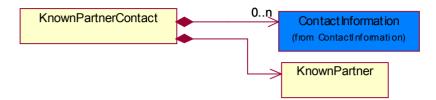


Figure 4-17 KnownPartnerContact

| Composition | Cardinality | Туре | Documentation |
|------------------------|-------------|------------------------|--|
| KnownPartner | 1 | KnownPartner | The business document must describe the trading partners in the business transaction. |
| ContactInformatio n | 0n | 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. |

4.6.5 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.

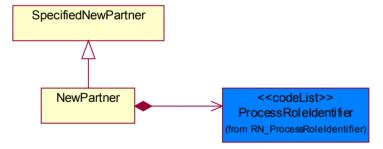


Figure 4-18 NewPartner

| Composition | Cardinality | Туре | Documentation |
|---------------------------|-------------|-----------------------|---|
| ProcessRoleIdenti fier | 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. |

4.6.6 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.

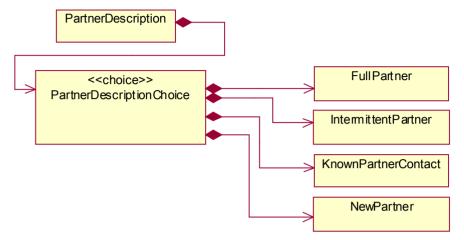


Figure 4-19 PartnerDescription

| Composition | Cardinality | Туре | Documentation |
|-------------------|-------------|----------------------|---------------|
| PartnerDescriptio | 1 | PartnerDescriptionCh | |
| nChoice | | oice | |

4.6.7 PartnerDescriptionChoice

| Composition | Cardinality | Туре | Documentation |
|-------------------------|-------------|-------------------------|--|
| KnownPartnerCon tact | 1 | KnownPartnerCon tact | The business document must describe the trading partners in the business transaction. |
| IntermittentPartn er | 1 | IntermittentPartn er | 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. |

4.6.8 PartnerIdentification

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

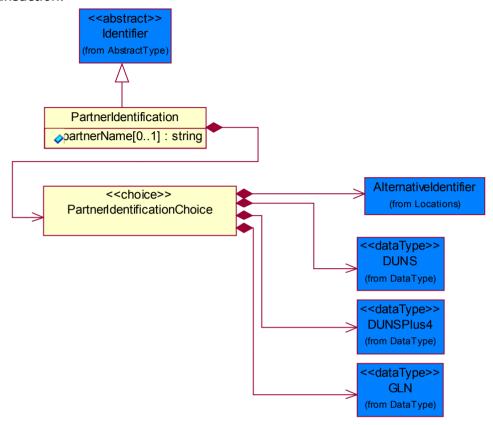


Figure 4-20 PartnerIdentification

| Attribute | Type | Documentation |
|-----------------|--------|---|
| partnerName[01] | string | The name of the partner's company/business. |

| Composition | Cardinality | Туре | Documentation |
|---------------------|-------------|------------------------|---------------|
| PartnerIdentificati | 1 | PartnerIdentificationC | |
| onChoice | | hoice | |

4.6.9 PartnerIdentificationChoice

| Composition | Cardinality | Туре | Documentation |
|---------------------------|-------------|-----------------------|---|
| AlternativeIdentifi er | 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. |
| DUNSPlus4 | 1 | DUNSPlus4 | 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. |

4.6.10 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.

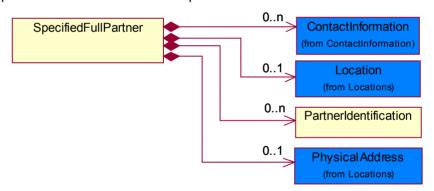


Figure 4-21 SpecifiedFullPartner

| Composition | Cardinality | Туре | Documentation |
|---------------------------|-------------|-----------------------|--|
| ContactInformatio n | 0n | 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 | 01 | Location | The business document must specify a location. |
| PartnerIdentificati on | 0n | PartnerIdentification | The business document must allow for the identity of one or more parties to the transaction. |
| PhysicalAddress | 01 | PhysicalAddress | The business document must provide a physical address for a party to the business transaction. |

4.6.11 SpecifiedIntermittentPartner

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

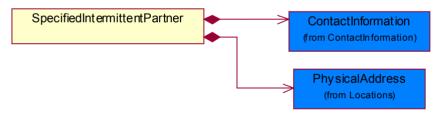


Figure 4-22 SpecifiedIntermittentPartner

| Composition | Cardinality | Туре | Documentation |
|------------------------|-------------|--------------------|--|
| ContactInformatio n | 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. |

4.6.12 SpecifiedKnownPartner

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



Figure 4-23 SpecifiedKnownPartner

| Composition | Cardinality | Туре | Documentation |
|---------------------|-------------|----------------------|-----------------------------|
| PartnerIdentificati | 1 | PartnerIdentificatio | The business document |
| on | | n | must allow for the identity |
| | | | of one or more parties to |
| | | | the transaction. |

4.6.13 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.

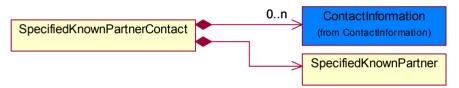


Figure 4-24 SpecifiedKnownPartnerContact

| Composition | Cardinality | Туре | Documentation |
|---------------------------|-------------|---------------------------|--|
| SpecifiedKnownPa rtner | 1 | SpecifiedKnownPartn er | The business document must describe the trading partners in the business |
| | | | transaction. |
| ContactInformatio n | 0n | 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. |

4.6.14 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.

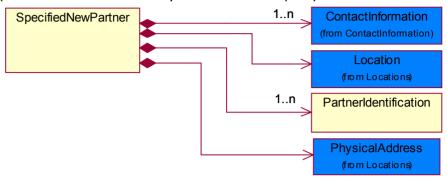


Figure 4-25 SpecifiedNewPartner

| Composition | Cardinality | Туре | Documentation |
|---------------------------|-------------|---------------------------|--|
| ContactInformatio n | 1n | 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. |
| PartnerIdentificati on | 1n | PartnerIdentificatio n | The business document must allow for the identity of one or more parties to the transaction. |

4.6.15 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.

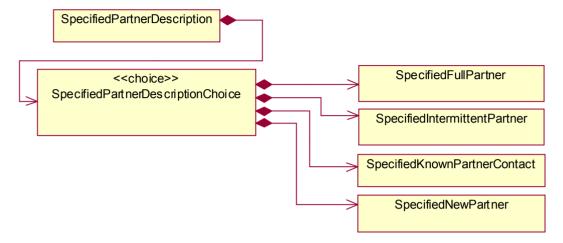


Figure 4-26 SpecifiedPartnerDescription

| Composition | Cardinality | Туре | Documentation |
|-------------------|-------------|-----------------------|---------------|
| SpecifiedPartnerD | 1 | SpecifiedPartnerDescr | |
| escriptionChoice | | iptionChoice | |

4.6.16 SpecifiedPartnerDescriptionChoice

| Composition | Cardinality | Туре | Documentation |
|----------------------------------|-------------|----------------------------------|--|
| SpecifiedKnownPa rtnerContact | 1 | SpecifiedKnownPartn erContact | The business document must describe the trading partners in the business transaction and allow for a identification of an individual of the trading partner. |
| SpecifiedIntermitt entPartner | 1 | SpecifiedIntermitten tPartner | The business document must describe a physical address for a delivery. |
| SpecifiedNewPart ner | 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. |
| SpecifiedFullPartn er | 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. |

4.7 ProductIdentification

4.7.1 ProductIdentification

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

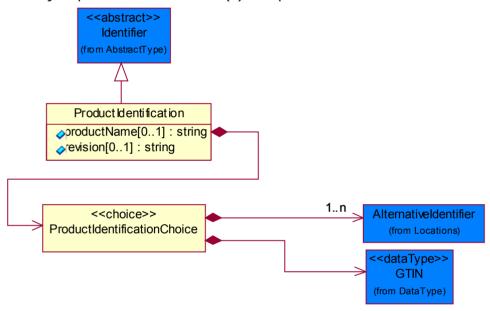


Figure 4-27 ProductIdentification

| Attribute | Туре | Documentation |
|-----------------|--------|--|
| productName[01] | string | The name of the product. |
| revision[01] | string | Referenced the specified product revision. |

| Composition | Cardinality | Туре | Documentation |
|---------------------|-------------|------------------------|---------------|
| ProductIdentificati | 1 | ProductIdentificationC | |
| onChoice | | hoice | |

4.7.2 ProductIdentificationChoice

| Composition | Cardinality | Туре | Documentation |
|---------------------------|-------------|-----------------------|--|
| AlternativeIdentifi er | 1n | 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). |

4.7.3 ProductSerialIdentification

The object provides the serial identifier of a product.

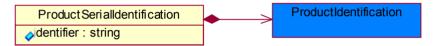


Figure 4-28 ProductSerialIdentification

| Attribute | Туре | Documentation |
|------------|--------|---|
| identifier | string | A unique serial identifier assigned to a product. |

| Composition | Cardinality | Туре | Documentation |
|---------------------|-------------|-----------------------|-----------------------------|
| ProductIdentificati | 1 | ProductIdentification | The object provides the |
| on | | | identifier(s) of a product. |

4.8 CodeList

4.8.1 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.

4.8.3 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.bsiqlobal.com/Technical+Information/Publications/ Publications/tig90.xalter. If you need more information about the ISO standard please contact ISO for more details.

4.8.4 Language

For representation of Language name RosettaNet has adopted ISO 639-2; 1998. Refer to the following web page to get the latest version of the standard: http://www.loc.gov/standards/iso639-2/iso639jac.html. If you need more information about the ISO standard please contact ISO for more details.

4.8.5 DocumentType

A code identifying the business context of a document.

| Instance | Documentation |
|----------|--|
| APM | Applied Promotions. |
| ARA | Authorization Request Approval. |
| CAR | Certificate of Analysis Response. |
| CBN | Product batch number of customer. |
| CCN | Customs clearance number. |
| CFA | Failure Analysis - Request document that will accompany the product providing characteristics of the component failure. |
| CIN | Commercial Invoice. |
| CNM | Traditional credit note or memo. |
| COA | Certificate of Analysis. |
| CON | In a virtual sourcing relationship, a third party trading partner is supplying a part to a customer on behalf of another company that has taken the order for the customer. In this case a Customer Order Number is associated to the request for material that is sent to the virtual trading partners. |
| COS | Consumption Notice. |
| COT | Contract. |
| CRN | Unique consumption reference number identifying the product consumption issue i.e. one-to-one relationship with physical flow. |
| DEM | Traditional debit note or memo. |
| DEN | Delivery Note. |
| DIN | Discontinuation Notice. |
| DOR | Delivery Order. |
| DRN | Drawing Number. |
| DRR | Design Registration Request. |
| ECO | Engineering Change Order - The proprietary unique identification number that represents an engineering change order. |
| EDD | Export Declaration Document. |
| EIR | Engineering Information Request. |
| EOL | End of Life. |
| FUO | Sales order or transfer order fulfilling demand out of a facility (outbound shipment). |

| IDD | Import Declaration Document. |
|------------|--|
| INV | Invoice. |
| | Location Identifier. Data for on-site work that have to be done on the |
| LID | machine (associated with preventive maintenance order). |
| MEN | Master Event Number. |
| MID | Machine Identifier. Data for on-site work that have to be done on the |
| MID | machine (associated with preventive maintenance order). |
| MON | Model Number. |
| NTS | Notes. |
| OCL | The unique identifier assigned by the OEM for a warranty claim. |
| OGA | Other governmental agency issued document. |
| OPO | The unique identifier assigned by the OEM for a part order. |
| OPR | The unique identifier assigned by the OEM for a part return. |
| PCN | Product/Process Change. |
| PFA | Failure Analysis - Request document that will accompany the product |
| | providing characteristics of the product failure. |
| PII | Refers to previously issued invoice. |
| PLS | Unique number that identifies packing form prior to shipment. |
| POI | Purchase Order IN. |
| PON | Production order number for material release. |
| POO | Purchase Order OUT. |
| PRC | Product Catalog. |
| PSI | Refers to previously issued self-billing invoice. |
| PUO | Purchase Order. |
| QUO | Quote. |
| REC | Document identifying the receipt of materials or products into a facility |
| | against a purchase order or transfer order (inbound shipment). |
| REN | Release Number. |
| REO | Purchase order or transfer order replenishing inventory into a facility |
| | (inbound shipment). |
| REQ | Requisition. |
| RMA | Returned Material Authorization. |
| RPO | Purchase order for materials or product returned to and reworked by a |
| | supplier. |
| RTA | Remittance Advice - Remittance details. |
| SAO | Sales Order. |
| SBC | Credit Memo used in self-billing scenario. |
| SBD | Debit Memo used in self-billing scenario. |
| SBI | Invoice in self billing scenario. |
| SBN | Product batch number of supplier. |
| SCA | Similar to contracts - Contains the quantity of an article that is to be |
| | ordered from a vendor and the price for article or service that is to be |
| CEN | procured. |
| SEN | Serial Number. |
| SEO | A document that gives a repair provider the necessary authorization to |
| | repair or upgrade a product either at the customer site or at the repair |
| CHD | provider's site. |
| SHD SNC | Shipping Document. Shipport Number on Code List |
| SPC | Shipset Number on Code List. The unique identifier assigned by the ASP for a warranty claim |
| | The unique identifier assigned by the ASP for a warranty claim. |
| SPN | Spec Number. |

| SPO | The unique identifier assigned by the ASP for a part order. |
|-----|---|
| SPR | The unique identifier assigned by the ASP for a part return. |
| SPW | The unique identifier assigned by the ASP to reference a work order. |
| SRI | A document that contains the shipping reference number which allows the product to be tracked within the outsourced logistic providers network. |
| SWT | Switch Authorization. |
| TCS | Terms and Conditions. |
| TRO | Order which results in materials or products being moved from one facility to another (outbound shipment and inbound shipment). |
| WAB | Waybill. |
| WAC | Denotes a warranty claim. |
| WOO | Work Order. |

4.8.6 MimeTypeQualifier

The MIME type as defined by IANA.

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

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

| | T == == = = = = = = = = = = = = = = = = |
|--|---|
| 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 application/set-registration | [Korver] |
| application/set-registration application/set-registration-initiation | [Korver] |
| application/sqml | [RFC1874] |
| 11 . 3 | [Grosso] |
| application/sgml-open-catalog | [RFC3028] |
| application/sieve | |
| 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] |

| | T |
|--|----------------|
| 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- | [Mori] |
| initiation | |
| application/vnd.anser-web-funds-transfer- | [Mori] |
| initiation | |
| application/vnd.audiograph | [Slusanschi] |
| application/vnd.blueice.multipass | [Holmstrom] |
| application/vnd.bmi | [Gotoh] |
| application/vnd.businessobjects | [Imoucha] |
| application/vnd.canon-cpdl | [Muto] |
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| 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] |
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| 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] |
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| application/whoispp-query | [RFC2957] |
| application/whoispp-response | [RFC2958] |
| application/wita | [Campbell] |
| application/wordperfect5.1 | [Lindner] |
| application/x400-bp | [RFC1494] |
| application/x+00-bp application/xhtml+xml | [RFC3236] |
| application/xml | [RFC3023] |
| application/xml-dtd | [RFC3023] |
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| application/xml-external-parsed-entity | [RFC3023] |
| application/zip | [Lindner] |
| audio/32kadpcm | [RFC2421,RFC2422] |
| audio/AMR | [RFC3267] |

| audio/AMR-WB | [RFC3267] |
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| audio/basic | [RFC2045,RFC2046] |
| audio/CN | [RFC3389] |
| audio/DAT12 | [RFC3190] |
| audio/DVI4 | [10 03130] |
| audio/EVRC | [RFC-ietf-avt-evrc-smv-03.txt] |
| audio/EVRC0 | [RFC-ietf-avt-evrc-smv-03.txt] |
| audio/G.722.1 | [RFC3047] |
| audio/G722 | [KI C3047] |
| audio/G723 | |
| audio/G725 audio/G726-16 | |
| audio/G726-16 | |
| | |
| audio/G726-32 | |
| audio/G726-40 | |
| audio/G728 | |
| audio/G729 | |
| audio/G729D | |
| audio/G729E | |
| audio/GSM | |
| audio/GSM-EFR | |
| audio/L16 | [RFC2586] |
| audio/L20 | [RFC3190] |
| audio/L24 | [RFC3190] |
| audio/L8 | |
| audio/LPC | |
| audio/MP4A-LATM | [RFC3016] |
| audio/MPA | |
| audio/mpa-robust | [RFC3119] |
| audio/mpeg | [RFC3003] |
| audio/parityfec | [RFC3009] |
| audio/PCMA | |
| audio/PCMU | |
| audio/prs.sid | [Walleij] |
| audio/QCELP | |
| audio/RED | |
| audio/SMV | [RFC-ietf-avt-evrc-smv-03.txt] |
| audio/SMV0 | [RFC-ietf-avt-evrc-smv-03.txt] |
| audio/telephone-event | [RFC2833] |
| audio/tone | [RFC2833] |
| audio/VDVI | |
| audio/vnd.3gpp.iufp | [Belling] |
| audio/vnd.cisco.nse | [Kumar] |
| audio/vnd.cns.anp1 | [McLaughlin] |
| audio/vnd.cns.inf1 | [McLaughlin] |
| audio/vnd.digital-winds | [Strazds] |
| audio/vnd.everad.plj | [Cicelsky] |
| audio/vnd.lucent.voice | [Vaudreuil] |
| audio/vnd.nortel.vbk | [Parsons] |
| audio/vnd.nuera.ecelp4800 | [Fox] |
| audio/vnd.nuera.ecelp7470 | [Fox] |
| -, | 1 5 4 |

| audio/vnd.nuera.ecelp9600 | [Fox] |
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| audio/vnd.octel.sbc | [Vaudreuil] |
| audio/vnd.qcelp | [Lundblade] |
| audio/vnd.rhetorex.32kadpcm | [Vaudreuil] |
| audio/vnd.vmx.cvsd | [Vaudreuii] |
| image/cgm | Computer Graphics Metafile |
| | [RFC1494] |
| image/g3fax | [RFC2045,RFC2046] |
| image/gif | |
| image/ief | [RFC1314] Image Exchange Format |
| image/jpeg | [RFC2045,RFC2046] |
| image/naplps | [Ferber] |
| image/png | [Randers-Pehrson] |
| image/prs.btif | [Simon] |
| image/prs.pti | [Laun] |
| image/t38 | [RFC3362] |
| image/tiff | [RFC3302] Tag Image File Format |
| image/tiff-fx | [RFC3250] Tag Image File Format |
| | Fax eXtended |
| image/vnd.cns.inf2 | [McLaughlin] |
| image/vnd.djvu | [Bottou] |
| image/vnd.dwg | [Moline] |
| image/vnd.dxf | [Moline] |
| image/vnd.fastbidsheet | [Becker] |
| image/vnd.fpx | [Spencer] |
| image/vnd.fst | [Fuldseth] |
| image/vnd.fujixerox.edmics-mmr | [Onda] |
| image/vnd.fujixerox.edmics-rlc | [Onda] |
| image/vnd.globalgraphics.pgb | [Bailey] |
| image/vnd.mix | [Reddy] |
| image/vnd.ms-modi | [Vaughan] |
| image/vnd.net-fpx | [Spencer] |
| image/vnd.svf | [Moline] |
| image/vnd.wap.wbmp | [Stark] |
| image/vnd.xiff | [S.Martin] |
| message/delivery-status | [RFC1894] |
| message/disposition-notification | [RFC2298] |
| message/external-body | [RFC2045,RFC2046] |
| message/http | [RFC2616] |
| message/news | [RFC 1036, H.Spencer] |
| message/partial | [RFC2045,RFC2046] |
| message/rfc822 | [RFC2045,RFC2046] |
| message/s-http | [RFC2660] |
| message/sip | [RFC3261] |
| message/sipfrag | [RFC3420] |
| model/iges | [Parks] |
| model/mesh | [RFC2077] |
| model/vnd.dwf | [Pratt] |
| model/vnd.flatland.3dml | [Powers] |
| model/vnd.gdl | [Babits] |
| model/vnd.gs-gdl | |
| mouen viiu.ys-yui | [Babits] |

| model/vnd.gtw | [Ozaki] |
|---|-------------------|
| model/vnd.mts | [Rabinovitch] |
| model/vnd.nits model/vnd.parasolid.transmit.binary | [Parasolid] |
| model/vnd.parasolid.transmit.text | [Parasolid] |
| , , , | [Rabinovitch] |
| model/vnd.vtu model/vrml | |
| , | [RFC2077] |
| multipart/alternative | [RFC2045,RFC2046] |
| multipart/appledouble | [Faltstrom] |
| multipart/byteranges | [RFC2068] |
| multipart/digest | [RFC2045,RFC2046] |
| multipart/encrypted | [RFC1847] |
| multipart/form-data | [RFC2388] |
| multipart/header-set | [Crocker] |
| multipart/mixed | [RFC2045,RFC2046] |
| multipart/parallel | [RFC2045,RFC2046] |
| multipart/related | [RFC2387] |
| multipart/report | [RFC1892] |
| multipart/signed | [RFC1847] |
| multipart/voice-message | [RFC2421,RFC2423] |
| text/calendar | [RFC2445] |
| text/css | [RFC2318] |
| text/directory | [RFC2425] |
| text/enriched | [RFC1896] |
| text/html | [RFC2854] |
| text/parityfec | [RFC3009] |
| text/plain | [RFC2646,RFC2046] |
| text/prs.lines.tag | [Lines] |
| text/rfc822-headers | [RFC1892] |
| text/richtext | [RFC2045,RFC2046] |
| text/rtf | [Lindner] |
| text/sgml | [RFC1874] |
| text/t140 | [RFC2793] |
| text/tab-separated-values | [Lindner] |
| text/uri-list | [RFC2483] |
| text/vnd.abc | [Allen] |
| text/vnd.curl | [Byrnes] |
| text/vnd.DMClientScript | [Bradley] |
| text/vnd.fly | [Gurney] |
| text/vnd.fmi.flexstor | [Hurtta] |
| text/vnd.in3d.3dml | [Powers] |
| text/vnd.in3d.spot | [Powers] |
| text/vnd.IPTC.NewsML | [IPTC] |
| text/vnd.IPTC.NewsML text/vnd.IPTC.NITF | [IPTC] |
| · | |
| text/vnd.latex-z | [Lubos] |
| text/vnd.motorola.reflex | [Patton] |
| text/vnd.ms-mediapackage | [Nelson] |
| text/vnd.net2phone.commcenter.command | [Xie] |
| text/vnd.sun.j2me.app-descriptor | [G.Adams] |
| text/vnd.wap.si | [WAP-Forum] |
| text/vnd.wap.sl | [WAP-Forum] |

| | FO: 13 |
|--|---------------------------------|
| text/vnd.wap.wml | [Stark] |
| text/vnd.wap.wmlscript | [Stark] |
| text/xml | [RFC3023] |
| text/xml-external-parsed-entity | [RFC3023] |
| video/BMPEG | |
| video/BT656 | |
| video/CelB | |
| video/DV | [RFC3189] |
| video/H261 | |
| video/H263 | |
| video/H263-1998 | |
| video/H263-2000 | |
| video/JPEG | |
| video/MP1S | |
| video/MP2P | |
| video/MP2T | |
| video/MP4V-ES | [RFC3016] |
| video/mpeg | [RFC2045,RFC2046] |
| video/MPV | - |
| video/nv | |
| video/parityfec | [RFC3009] |
| video/pointer | [RFC2862] |
| video/quicktime | [Lindner] |
| video/SMPTE292M | [RFC-avt-smpte292-video-08.txt] |
| video/vnd.fvt | [Fuldseth] |
| video/vnd.motorola.video | [McGinty] |
| video/vnd.motorola.videop | [McGinty] |
| video/vnd.mpegurl | [Recktenwald] |
| video/vnd.nokia.interleaved-multimedia | [Kangaslampi] |
| video/vnd.objectvideo | [Clark] |
| video/vnd.vivo | [Wolfe] |

4.8.7 UnitOfMeasure

Code identifying a product unit of measure.

| Instance | Documentation |
|----------|-----------------------------------|
| 10P | 10-pack. |
| 1BF | 100 Board Feet. |
| 1FC | 20 Foot Container. |
| 1GR | Gram/Cubic Centimeter. |
| 1GT | 10,000 Gallon Tankcar. |
| 1KB | 25 Kilogram Bulk Bag. |
| 1KD | 10 Kilogram Drum. |
| 1KP | 1000-pack. |
| 1M2 | 1/Square Meter (1/M2). |
| 1PA | 20-Pack. |
| 1PB | 50 Pound Bag. |
| 1PD | 100 Pound Drum. |
| 1PM | 1/minute (1/min). |
| 22S | Square Millimeter/Second (mm2/s). |

| GR Gram/square meter. 2GT 20,000 Gallon Tankcar. 2KB 300 Kilogram Bulk Bag. 2KD 15 Kilogram Drum. 2PA 100-Pack. 3KB 500 Kilogram Bulk Bag. 3KD 55 Gallon Drum. 3MH Cubic Millimeters/Hour (mm3/hour). 4GR Grams Per 100 Grams. 4KD 115 Kilogram Drum. 50P 50-pack. 5GR Grams Per Cubic Centimeter. 6GR Grams Per Square Centimeter. 6GR Grams Per Square Centimeter. ABC Absorbance per Unit (absorbance per unit). ACC Atoms per Cubic Centimeters (atoms per cu cm). ACC Atoms per Cubic Centimeters (atoms per cu cm). ACC Acc. ACC Actual Pounds. ACT Actual Pounds. ACU Activity unit (Activ.unit). ALU Aluminum Pounds Only. AM1 Ampoule. AMN Angstroms/Minute (Ängst/min). AMP Ampere. ANG Angstrom (A). APB Atomic Parts per Billion (atomic ppb). APG API Specific Gravity (API Grav). APH Atomic Parts per Trillion (atomic pph). APT Atomic Parts per Trillion (atomic pph). APT Atomic Parts per Trillion (atomic pph). ASY Assembly (ASY). ATG Atmospheric gauge. ATM Atmosphere absolute. ATM Atmosphere absolute. ATM Atmosphere absolute. ATM Atmosphere absolute. ATP Atomic %. ATY Activity. BAB Base Bas. BAG Bag. BAR Bar. BAS Basket. BAS Basket. | 2FC | 40 Foot Container. |
|--|-----|---|
| 2GT 20,000 Gallon Tankcar. 2KB 300 Kilogram Bulk Bag. 2KD 15 Kilogram Drum. 2PA 100-Pack. 3GR Grams Per 100 Centimeters. 3KD 55 Gallon Drum. 3MH Cubic Millimeters/Hour (mm3/hour). 4GR Grams Per 100 Grams. 4KD 115 Kilogram Drum. 50P 50-pack. 5GR Grams Per Square Centimeter. 6GR Grams Per Square Meter. ABC Absorbance per centimeter (Absorbance per cm). ABU Absorbance per centimeters (atoms per cu cm). ACC Atoms per Cubic Centimeters (atoms per cu cm). ACC Actoms 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. AMI Ampounds. AMN Ångstroms/Minute (Ångst/min). AMP Ampere. ANG Argstrom. | | |
| ZKB 300 Kilogram Bulk Bag. ZKD 15 Kilogram Drum. 2PA 100-Pack. 3GR Grams Per 100 Centimeters. 3KB 500 Kilogram Bulk Bag. 3KD 55 Gallon Drum. 3MH Cubic Millimeters/Hour (mm3/hour). 4GR Grams Per 100 Grams. 4KD 115 Kilogram Drum. 50P 50-pack. 5GR Grams Per Square Centimeter. 6GR Grams Per Square Meter. ABC Absorbance per centimeter (Absorbance per cm). ABU Absorbance per cubic Centimeters (atoms per cu cm). ACC Atoms per Cubic Centimeters (atoms per cu cm). ACC Actoms per Cubic Centimeters (atoms per cu cm). ACS Acidic strength/concentration. ACT Actal Pounds. ACU Activity unit (Activ.unit). ALU Aluminum Pounds Only. AMN Angstroms/Minute (Ängst/min). AMP Ampere. ANG Angstrom (A). APB Atomic Parts per Billion (atomic pph). APF | | |
| ZKD 15 Kilogram Drum. 2PA 100-Pack. 3GR Grams Per 100 Centimeters. 3KB 500 Kilogram Bulk Bag. 3KD 55 Gallon Drum. 3MH Cubic Millimeters/Hour (mm3/hour). 4GR Grams Per 100 Grams. 4KD 115 Kilogram Drum. 50P 50-pack. 5GR Grams Per Cubic Centimeter. 6GR Grams Per Square Meter. ABC Absorbance per unit (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. ACI Actual Pounds. ACU Activity unit (Activ.unit). ALU Aluminum Pounds Only. AMI Ampoule. AMN Ångstroms/Minute (Ångst/min). AMP Ampere. ANG Angstrom (A). APB Atomic Parts per Billion (atomic ppb). APG API Specific Gravity (API Grav). AP | | |
| 2PA 100-Pack. 3GR Grams Per 100 Centimeters. 3KB 500 Kilogram Bulk Bag. 3KD 55 Gallon Drum. 3MH Cubic Millimeters/Hour (mm3/hour). 4GR Grams Per 100 Grams. 4KD 115 Kilogram Drum. 50P 50-pack. 5GR Grams Per Square Centimeter. 6GR 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). ACC Actoms per Cubic Centimeters (atoms per cu cm). ACC Actoms per Cubic Centimeters (atoms per cu cm). ACC Actoms per Cubic Centimeters (atoms per cu cm). ACC Actoms per Cubic Centimeters (atoms per cu cm). ACC Activity unit (Activ.unit). ALU Aluminum Pounds Only. AMI Ampoule. AMN Ångstroms/Minute (Ångst/min). AMP Ampere. ANG Angstrom (A). APB Atomic Parts per Billion (atomic pph). | | |
| 3GR Grams Per 100 Centimeters. 3KB 500 Kilogram Bulk Bag. 3KD 55 Gallon Drum. 3MH Cubic Millimeters/Hour (mm3/hour). 4GR Grams Per 100 Grams. 4KD 115 Kilogram Drum. 50P 50-pack. 5GR Grams Per Cubic Centimeter. 6GR 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. ACJ Activity unit (Activ.unit). ALU Aluminum Pounds Only. AMI Ampoule. AMN Ängstroms/Minute (Ångst/min). AMP Ampere. ANG Angstrom (A). APB Atomic Parts per Billion (atomic ppb). APB Atomic Parts per Million (atomic ppm). APT Atomic Parts per Tillion (atomic ppt). APU API Specific Gr | | |
| 3KB 500 Kilogram Bulk Bag. 3KD 55 Gallon Drum. 3MH Cubic Millimeters/Hour (mm3/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 unit (absorbance per cm). ABU Absorbance per Unit (absorbance per unit). ACC Atoms per Cubic Centimeters (atoms per cu cm). ACC Activity unit (Activ.unit). ALU Aluminum Pounds Only. AMI Ampoule. AMN Angstroms/Minute (Ångst/min). AMP Ampere. ANG Argstrom (A). APB Atomic Parts per Billion (atomic ppb). APG API Specific Gravity (API Grav). APU APHA Units (apha). ASC Atoms per Square Centimeters (atoms per sq cm). ASM Angstrom ASM Angstrom APU APHA Units (apha). ASC Atoms per Square Centimeters (atoms per sq cm). ASM Angstrom ASM Angstrom ASM Angstrom APH Atomic Parts per Million (atomic ppt). APU APHA Units (apha). ASC Atoms per Square Centimeters (atoms per sq cm). ASM Angstrom ASM Angstr | | |
| 3KD 55 Gallon Drum. 3MH Cubic Millimeters/Hour (mm3/hour). 4GR Grams Per 100 Grams. 4KD 115 Kilogram Drum. 50P 50-pack. 5GR Grams Per Cubic Centimeter. 6GR Grams Per Square Meter. ABC 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. AMN Ångstroms/Minute (Ångst/min). AMP Ampere. ANG Angstrom (A). APB Atomic Parts per Billion (atomic ppb). APB Atomic Parts per Billion (atomic ppm). APT Atomic Parts per Million (atomic ppt). APT Atomic Parts per Million (atomic ppt). APU APHA Units (apha). ASC Atoms per Square Centimeters (atoms per sq cm). ASY Assembly (ASY). ATG Atmosphere absolute. ATP Atomic Parts per Book. ASY Assembly (ASY). ATP Atomic Parts per Million (atomic ppt). ATP Atoms per Square C | | |
| 3MH Cubic Millimeters/Hour (mm3/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. ACR Acre. ACS Acidic strength/concentration. ACT Actual Pounds. ACU Activity unit (Activ.unit). ALU Aluminum Pounds Only. AMN Ängstroms/Minute (Ängst/min). AMP Ampoule. ANG Angstrom (A). APP Ampere. ANG Angstrom (A). APB Atomic Parts per Billion (atomic ppb). APG API Specific Gravity (API Grav). APM Atomic Parts per Trillion (atomic ppt). | | 5 |
| 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). ACC Atoms per Cubic Centimeters (atoms per cu cm). ACC Activity unit (Activ.unit). ACI Actual Pounds. ACU Activity unit (Activ.unit). ALU Aluminum Pounds Only. AMN Ängstroms/Minute (Ängst/min). AMP Ampere. ANG Angstrom (A). APB Atomic Parts per Billion (atomic ppb). APG API Specific Gravity (API Grav). APT Atomic Parts per Trillion (atomic ppt). APT Atomic Parts per Trillion (atomic ppt). ASC Atoms per Square Centimeters (atoms per sq cm). ASS Angstrom. ASY Assembly (ASY). ATG Atmosphere absolute. ATP Atomic % ATY Activity. BAB Base Box. BAB Base Box. BAB Bale. BAB Bale. BAB Bale. BAB Bale. BAB BAB Bale. BAB BAB Bale. BAB BAB BAB BABN BABN BABN BABN BABN B | | |
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| 50P 50-pack. 5GR Grams Per Cubic Centimeter. 6GR Grams Per Square Meter. 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. AMI Ampoule. AMN Ängstroms/Minute (Ängst/min). AMP Ampere. ANG Angstrom (A). APB Atomic Parts per Billion (atomic ppb). APB Atomic Parts per Billion (atomic ppm). APM Atomic Parts per Trillion (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). ATT Atomic %. ATT Atomic %. | | |
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| GGR 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 Ängstroms/Minute (Ängst/min). AMP Ampere. ANG Angstrom (A). APB Atomic Parts per Billion (atomic ppb). APF Atomic Parts per Million (atomic ppm). APT Atomic Parts per Million (atomic ppt). APU APHA Units (apha). ASC Atoms per Square Centimeters (atoms per sq cm). ASS Assembly (ASY). ATG Atmospheric gauge. ATM Atomic Marts of Atomic Marts of Atomic Parts per Million (Atomic Parts Per Atomic Marts Per Million (Atomic Parts Per Atomic Marts Marts Per Million (Atomic Parts Per Atomic Marts Marts Marts Per Million (Atomic Parts Per Atomic Marts Marts Marts Per Million (Atomic Parts Per Atomic Marts Marts Per Million (Atomic Parts Per Atomic Marts Marts Per Million (Atomic Parts Per Square Centimeters (Atoms Per sq cm). ASC Atoms per Square Centimeters (Atoms Per sq cm). AST Assembly (ASY). ATG Atmospheric gauge. ATM Atmosphere absolute. ATP Atomic Mo. ATY Activity. BAB Base Box. BAC Batch. BAB Bale. BAB Bale. BAB Bale. BAB Bale. BAB Bale. BAB Bale. BAB Ball. BAN Band. BAN Band. BAN Band. BAN Barn. BAS Basket. | | |
| 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. AMI 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. | | |
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| 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 Ängstroms/Minute (Ängst/min). AMP Ampere. ANG Angstrom (A). APB Atomic Parts per Billion (atomic ppb). APH 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 Atomic %. ATY Activity. BAB Base Box. BAC Batch. BAB Bale. BAG Bag. BAL Ball. BAN Band. BAR Bar. BAS Baseket. | | |
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| 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. BAR Bar. BAS Basket. | | |
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| 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. | ASY | Assembly (ASY). |
| ATP Atomic %. ATY Activity. BAB Base Box. BAC Batch. BAE Bale. BAG Bag. BAL Ball. BAN Band. BAP Batting Pound. BAR Bar. BAS Basket. | ATG | Atmospheric gauge. |
| ATY Activity. BAB Base Box. BAC Batch. BAE Bale. BAG Bag. BAL Ball. BAN Band. BAP Batting Pound. BAR Bar. BAS Basket. | ATM | Atmosphere absolute. |
| BAB Base Box. BAC Batch. BAE Bale. BAG Bag. BAL Ball. BAN Band. BAP Batting Pound. BAR Bar. BAS Basket. | ATP | Atomic %. |
| BAC Batch. BAE Bale. BAG Bag. BAL Ball. BAN Band. BAP Batting Pound. BAR Bar. BAS Basket. | ATY | Activity. |
| BAE Bale. BAG Bag. BAL Ball. BAN Band. BAP Batting Pound. BAR Bar. BAS Basket. | BAB | Base Box. |
| BAG Bag. BAL Ball. BAN Band. BAP Batting Pound. BAR Bar. BAS Basket. | BAC | Batch. |
| BAL Ball. BAN Band. BAP Batting Pound. BAR Bar. BAS Basket. | BAE | Bale. |
| BAL Ball. BAN Band. BAP Batting Pound. BAR Bar. BAS Basket. | BAG | Bag. |
| BAP Batting Pound. BAR Bar. BAS Basket. | BAL | |
| BAP Batting Pound. BAR Bar. BAS Basket. | | Band. |
| BAR Bar. BAS Basket. | | |
| BAS Basket. | | |
| | | |
| | | |

| BAW | Base Weight. |
|-----|---|
| BEA | Beam. |
| BEC | Becquerel/kilogram. |
| | Belt. |
| BEL | |
| 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. |
| COW | 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. |
| CAL | Can. |
| CAN | Carload. |
| CAC | |
| | Car. |
| CAT | Case. |
| CAW | 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 (cm2). |
| 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/cm2). |
| DE1 | Defects. |
| DE2 | Degrees in Angles. |
| DE3 | Degrees in Angles. Degree. |
| DEA | Degree. |
| DEC | Decimeter. |
| DEF | Degree Fahrenheit. |
| DEG | |
| | Degree Celsius. |
| DEW | Dep. Factor. |
| DFW | Defects per Wafer (Defects/Wafer). |
| DGM | Decigram. |
| DIE | Die. |

| DIL | Display. |
|------------|--|
| DIP | Dispenser. |
| DNC | |
| DOZ | Dynes per centimeter (Dynes per cm). 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 Gram (milliequivalent per g). 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). |
| F00 | 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 (SFT3_60F_S). |
| FTU | 1000 FT3 at 70°F, 14.7 psia (KFT3_70F_S). |
| FUU | Fuel Usage (Gallons). |
| G2S | Gram square per second (g ² /s). |
| GAI | Gram act. ingrd. (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 Equivalent (g/Eq). 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 GME | Gram per 100 Milliters (g/100111). Gram per Mole Equivalent (g/mole Eq). |
| GMC | Gram per Mole Equivalent (g/mole Eq). Gram per Mol (g/mol). |
| GNL | Gram act.Ingrd per Liter (gai/liter). |
| GOB | Gross Barrels. |
| GOG | Gross Gallons. |
| JUG | GIUSS GAIIUIIS. |

| COLL | Circolary (COlors) |
|------|--|
| 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 (inH2O-q). |
| 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 cm2 gauge (kg/cm2-g). |
| KD3 | Kilogram per Cubic Decimeter (kg/dm3). |
| KEG | Keg. |
| KEL | Kelvin. |
| KGE | Container Fill Weight in Kg/Ea. |
| NGL | Container i iii weight iii Ng/La. |

| 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 (m3/m3). |
| KMN | Kelvin per Minute (K/min). |
| KMS | Kelvin per Second (K/s). |
| KNM | Kilonewton per square meter (kN/m2). |
| 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 (I/g/cm). |
| LGC | Liters per Gram-Centimeters (I/g-cm). |
| LHK | Liter per 100 km (I/100 km). |
| LIF | Lifts. |
| LIM | Link. |
| LIQ | Liquid Pounds. |
| LIT | Liter. |
| LMI | Liter per Minute (I/min). |
| LMS | Liter per Molsecond (I/mol.s). |
| LOA | Load. |
| LOT | Lot. |
| LPD | Light Point Defects per Wafer (LPD/Wafer). |
| LPH | Liter per hour (I/hr). |
| LUG | Lug. |
| | - J |

| 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). |
| МЗВ | 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). |
| МЗН | Cubic Meter per Hour (m3/h). |
| M3J | Sales m3 at 35 °C, 1 atmos (Sm3_35C_S). |
| МЗК | Cubic Meter/Kilogram (m3/Kg). |
| МЗМ | Milliliter per Cubic Meter (ml/m3). |
| M3N | Mol per Cubic Meter (Mol/m3). |
| MAM | Milliamps/mm. |
| MAT | Mat. |
| MBY | Megabyte. |
| MBZ | Meterbar per Second (m.bar/s). |
| MC2 | Millisecond per Centimeter (mS/cm). |
| MCA | Microampere (μA). |
| MCG | Microgram. |
| MCH | Micromhos (µmhos). |
| MCK | Microcuries per Kilogram (μci/kg). |
| MCL | Microcuries per Gaseous Liter (μc/l). |
| MCM | Milligrams Per Cubic Meter. |
| MCN | Metal Can. |
| MCP | Manifolded Cylinder Pack. |
| MCR | Micron. |
| MEG | Megagram. |
| MEH | Megahertz. |
| MEJ | Megajoule (MJ). |
| MEP | Megapascal. |
| MET | Meter. |
| MEW | Megawatt. |
| MFD | Microfarad (μF). |
| MGA | Milligram per Amp (mg per amp). |
| MGF | Milligram per Square Centimeter (mg/cm2). |
| MGG | Milligram per Gram (mg/g). |
| MGL | Microgram per Liter (µg/l). |
| MGM | Milligram. |
| MGO | Megohm (MOhm). |
| MGR | Micrograms per Gram (μg/g). |
| MGS | Milligram per Second (mg per sec). |
| MH1 | Millimeter per Hour (mm/h). |
| MHC | Micromhos per Centimeter (µmhos/cm). |
| MHR | Meter per Hour (m/h). |
| MHV | Megavolt. |
| | 1 2 |

| | LANUE DELLE |
|-------|---|
| 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/m3). |
| 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/I). |
| 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 (µI). |
| MLS | Miles. |
| MLW | Milliliter act. Ingr. (ml act.in.). |
| MM3 | Cubic Millimeter (mm3). |
| MMA | Millimeter per Year (mm/a). |
| MME | Millimeter. |
| MMG | Millimol/gram (mmol/g). |
| MMH | Millimeter H20. |
| 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)). |
| THEIM | ויומסט דמונט אבו דיווווטוו (אףווונווו). |

| 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/s2). |
| 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/mm2). |
| 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/m²). |
| 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 | |
| NPK | Normality. 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 | |
| PAI | Package. 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 PEW | Per Hundred Pieces. |
| | Percent Weight. |
| PF3 PF4 | Per Cubic Foot (per cu ft). |
| | Particles per Cubic Feet (particles per cu ft). Percent Failed Area (Failed Area %). |
| PFA 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 I). |
| 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 | Pallet (Unit Lond |
| 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 | |
| STR | Steps. 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/m3). |
| TNN | Tonne. |
| TOM | Ton per Cubic Meter (t/m3). |
| TON | Ton. |
| TOR | Torr. |
| TOT | Tote. |
| TPT | Pass Test (Pass). |
| TRA | Train. |
| TRF | Track Foot. |
| TRL | Trailer. |
| TRO | |
| TRU | Troy. 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. |

4.8.8 ProcessRoleIdentifier

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

| Instance | Documentation |
|----------|--|
| ADM | Administered by - The party who is the administrative authority of an |
| | account. |
| ALT | Alternate approval by - The party who has approved a request in the |
| | event the approver is not able to respond. |
| APP | Approval by - The party who has approved a request. |
| AUT | Authorized By - The party who has authorized a request. |
| BIF | Bill from - The party that will issue the invoice. |
| BIT | Bill to - The party that will pay the invoice. |
| CBK | Customs Broker - CustomsBroker |
| | This object represents the party that declare the shipment on behalf of |
| | declarant. |
| CLF | Collect From - To enable the buyer to specify the location of where |
| | products not supplied directly by the seller/installer may be collected. |
| CLM | Claimed By - This object represents the claimant. |
| CNC | Cancellation party - The party who is cancelling the shipping order. |
| COR | Change originated by - The party who originates a proposed change. |
| COW | Change owned by - The party who owns or who is assigned |
| | responsibility for a proposed change. |
| CRA | Credit applicant - The party who is applying for credit. |
| CRE | Created by - The party responsible for creating a process or task. |
| CSP | Contract Service Provider. |
| CWN | contractOwner - The party who is the owner of the contract. For |
| | example, in the direct business, the buyer is the contract owner. In the |
| | distribution business, the buyer is the distributor and the contract |
| | owner is the reseller. |
| DCE | DesignCustomerApplicationEngineer. The demand customer's Field |
| | Application Engineer. |
| DCT | Declared To - This object represents the party that the declaration goes |
| | to. |

| DCII | Design Customer. The surport of the residual for which the design has |
|------|---|
| DCU | DesignCustomer. The owner of the product for which the design has |
| DIC | 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 |
| I KI D | 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 |
| 0.5 | 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 |
| CDT | is ordering the replacement parts and/or performing the repair. |
| SRT | Submit returns to - The party to whom product returns are to be |
| CTD | 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 |
| 11/1 | 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.

Validated 11.04.00

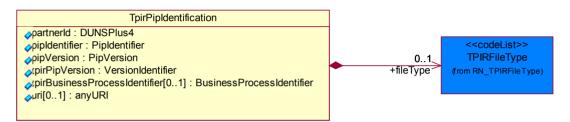


Figure 5-1 BusinessProcessIdentifier

| Attribute | Туре | 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.

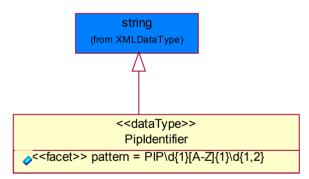


Figure 5-2 BusinessServiceInformation

| Attribute | Туре | 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[01] | string | The URN for the PIP that includes Cluster/Segment/Process pattern used to identify the interface process (such as PIP3A4) | |
| processState[01] | string | The business process (or service) state of the | |

| sender of a document. When a serv this document, the receiver may us | |
|--|--|
| 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[01] | string | Unique identification of a contract between the Sender and the Receiver |
| contractType[01] | 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.

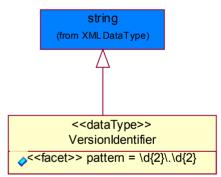


Figure 5-4 CorrelationInformation

| Composition | Cardinality | Туре | Documentation |
|--------------------------------|-------------|--------------------------------|---|
| ContractInformati on | 01 | ContractInformati on | A block of information used to correlate a contract in an executing choreography. |
| RequestingDocum entInformation | 01 | RequestingDocum entInformation | 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.

```
StandardDocumentIdentification

standard[0..1] : string
version : string
```

Figure 5-5 DocumentHeader

| Attribute | Туре | Documentation | |
|-------------------|--------|---|--|
| headerVersion[01] | string | The UN/CEFACT version of the document header. | |

| Composition | Cardinality | Туре | Documentation |
|-------------------------|-------------|-------------------------|---|
| Sender | 1 | Sender | The object allows the identification of the initiating party of the business message. |
| CorrelationInform ation | 01 | CorrelationInform ation | A block of information used to correlate a requesting document to a responding document and to the contract in an executing choreography. |
| DocumentInforma tion | 1 | DocumentInforma tion | 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.

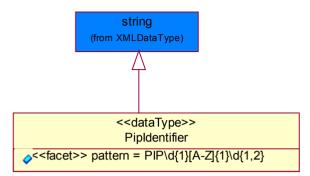


Figure 5-6 DocumentIdentification

| Attribute | Туре | Documentation |
|------------|--------|--|
| identifier | string | The unique identifier for the document being sent. |
| type[01] | string | Name of the Action Message |

| Composition | Cardinality | Туре | Documentation |
|------------------|-------------|-------------------|---------------|
| DocumentIdentifi | 1 | DocumentIdentific | |
| cationChoice | | ationChoice | |

5.7 DocumentIdentificationChoice

| Composition | Cardinality | Туре | Documentation |
|---------------------|-------------|---------------------|------------------------------|
| StandardDocume | 1 | StandardDocume | The object specifies |
| ntIdentification | | ntIdentification | additional information |
| | | | necessary to identify the |
| | | | standard business document. |
| TpirPipIdentificati | 1 | TpirPipIdentificati | The object specifies all |
| on | | on | 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.

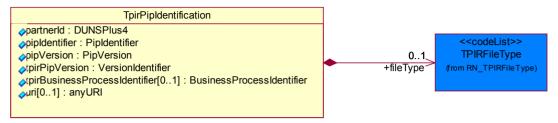


Figure 5-7 DocumentInformation

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

| Composition | Cardinality | Туре | Documentation |
|-------------------------|-------------|-------------------------|--|
| DocumentIdentifi cation | 1 | DocumentIdentific ation | The object specifies all information necessary to identify the business document. |
| DocumentSecurit y | 01 | DocumentSecurity | The object provides additional granularity in specifying business document security (this is in addition to the specified PIP security). |
| DocumentManifes t | 01 | DocumentManifes t | 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.

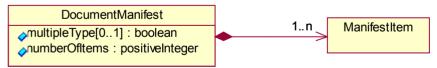


Figure 5-8 DocumentManifest

| Attribute | Туре | Documentation |
|------------------|---------------------|--|
| multipleType[01] | boolean | Indicates whether the manifest contains documents of multiple types. True if yes, and False if no. |
| numberOfItems | positiveIntege r | 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 | Туре | Documentation |
|--------------|-------------|--------------|-----------------------------------|
| ManifestItem | 1n | 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).

```
StandardDocumentIdentification

>standard[0..1] : string

>version : string
```

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 |
| 1 | | 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 | Туре | Documentation |
|--------------------------|-------------|---|
| description[01] | string | A description of the attachment. |
| length[01] | positiveInt | The size of the attachment in bytes (i.e. 1 |
| | eger | 000 000 bytes) |
| universalResourceIdentif | string | The generic set of all names/addresses that |
| ier | _ | are short strings that refer to resources. |

| Composition | Cardinality | Туре | Documentation |
|------------------|-------------|------------------|---------------------------------|
| mimeTypeQualifie | 1 | MimeTypeQualifie | The MIME type as defined by |
| r | | r | IANA. Please refer to |
| | | | http://www.iana.org/assignm |
| | | | ents/media-types/ for a list of |
| | | | types. |
| language | 01 | 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. |

5.12 PipIdentifier

PIP Identification.[i.e. PIP3A4]

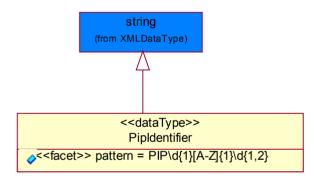


Figure 5-11 PipIdentifier

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

5.13 PipVersion

PIP version number (i.e. 02.02.00).

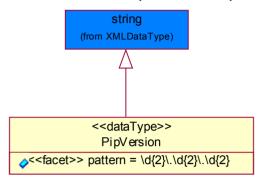


Figure 5-12 PipVersion

| Attribute | Туре | Documentation | |
|-----------|------|---------------------|--|
| pattern | | \d{2}\.\d{2}\.\d{2} | |

5.14 Receiver

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

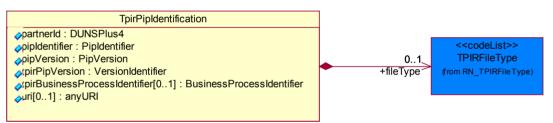


Figure 5-13 Receiver

| Composition | Cardinality | Туре | Documentation |
|-----------------------------|-------------|-----------------------------|--|
| BusinessServiceIn formation | 01 | 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 | 0n | 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.

```
StandardDocumentIdentification

standard[0..1] : string
version : string
```

Figure 5-14 RequestingDocumentInformation

| Attribute | Туре | Documentation |
|--|----------|--|
| businessProcessInstance Identifier[01] | string | The identifier for the public business process instance being sent that both the sender and receiver can identify. |
| responseDateTime[01] | dateTime | The expected time to receive the response. This can not be greater than the PIP TimeToPerform. |
| requestingDocumentCre ationDateTime[01] | dateTime | The date-time of the requesting business document. |
| requestingDocumentInst anceIdentifier | 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.

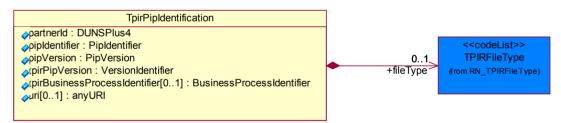


Figure 5-15 Sender

| Composition | Cardinality | Туре | Documentation |
|-----------------------------|-------------|-----------------------------|---|
| PartnerIdentificati on | 1 | PartnerIdentificati on | The business document must allow for the identity of one or more parties to the transaction. |
| BusinessServiceIn formation | 01 | 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. |
| ContactInformatio | 0n | ContactInformatio | The business document must |

| n | n | ١ | 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.

```
StandardDocumentIdentification

standard[0..1] : string
version : string
```

Figure 5-16 StandardDocumentIdentification

| Attribute | Type | Documentation |
|--------------|--------|---|
| standard[01] | 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.

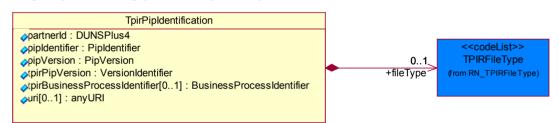


Figure 5-17 TpirPipIdentification

| Attribute | Туре | 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 | VersionIden | A TPIR-PIP Version Number (i.e., major and |
| | tifier | minor version number as XX.XX). |
| tpirBusinessProcessIdent | BusinessPro | A Business Process Identifier to uniquely |
| ifier[01] | cessIdentifi | define the TPIR-PIP 'role' within a Business |
| | er | 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[01] | anyURI | Describes the destination uri for the TPIR |
|---------|--------|--|
| | | form. |

| Composition | Cardinality | Туре | Documentation |
|-------------|-------------|--------------|--|
| fileType | 01 | 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).

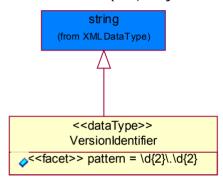


Figure 5-18 VersionIdentifier

| Attribute | Туре | 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. | |

Validated 11.04.00

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.

6.6 float

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

6.7 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 qDay is ---DD with optional time zone indicator as allowed for date.

6.8 positiveInteger

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

6.9 string

Represents character string.