# Description of 2C10 Message

PIP® 2C10

**Released 11.00.00**

| | **Specification Information** |
|---|---|
| **PIP** | Notify of Approved Manufacturer List |
| **Cluster** | Product Information |
| **Segment** | Product Design Information |
| **Publication Date** | 16 May 2012 |
| **Version Identifier** | R11.00 |

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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.

## 1.5 Related Documents

- Associated PIP Message Schemas (included with PIP Specification only)
- Description of Partner Interface Process for 2C10
- Message Structure

## 1.6 Document Version History

| Version | Date | Description |
|---|---|---|
| Released 11.00.00 | 16 May 2012 | Updated Version |

## 1.7 Document Purpose

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

# 2. Interchange Model

## 2.1 Approved Manufacturer List Notification

### 2.1.1 Interchange Diagram

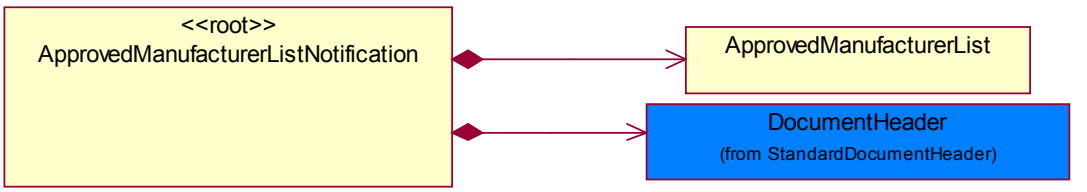


**Figure 2-1 Interchange**

### 2.1.2 ApprovedManufacturerList

The collection of business properties that identifies a list of manufacturers and their parts that are approved for use in the product.

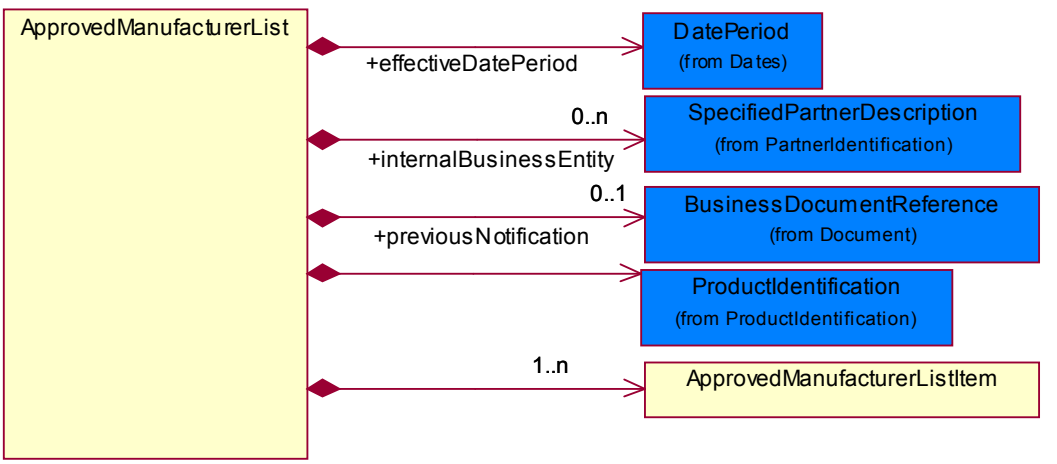


**Figure 2-2 ApprovedManufacturerList**

| Composition | Cardinality | Type | Documentation |
|---|---|---|---|
| ApprovedManufacturerListItem | 1..n | ApprovedManufacturerListItem | The collection of business properties that identifies all the properties of the manufacturer and it's item or part that is approved by the Change Review Forum. |
| effectiveDatePeriod | 1 | DatePeriod | The date range indicating when information or an activity are valid. |

| | | | |
|---|---|---|---|
| internalBusinessEntity | 0..n | SpecifiedPartnerDescription | Identifies proprietary divisions, planning units, organizations, warehouses, or any other grouping that would cause different contacts or different planning and procurement information. Used to distinguish between multiple divisions. |
| previousNotification | 0..1 | BusinessDocumentReference | Identifies the previous notification message if this is an update to it. |
| ProductIdentification | 1 | ProductIdentification | The object provides the identifier(s) of a product. |

### 2.1.3 ApprovedManufacturerListItem

The collection of business properties that identifies all the properties of the manufacturer and it's item or part that is approved by the Change Review Forum.

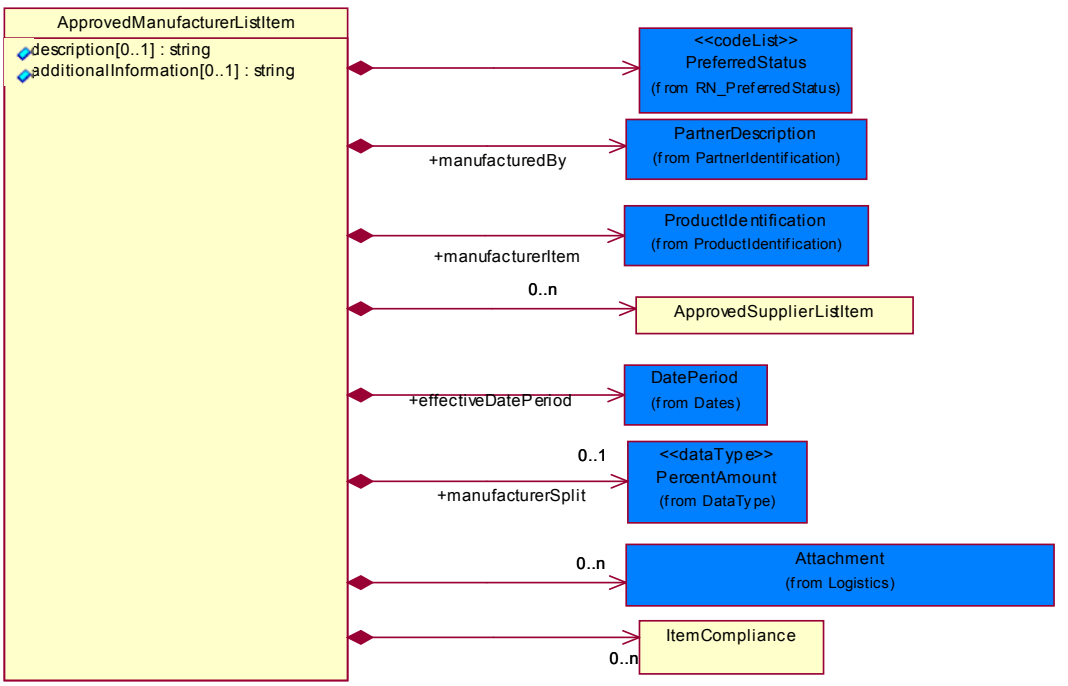


**Figure 2-3 ApprovedManufacturerListItem**

| Attribute | Type | Documentation |
|---|---|---|
| description[0..1] | string | A description of a process, thing, action, etc. |
| additionalInformation[0..1] | string | Trading partners can use this element to specify additional information. |

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| Composition | Cardinality | Type | Documentation |
|---|---|---|---|
| ApprovedSupplierListItem | 0..n | ApprovedSupplierListItem | The collection of business properties that identifies all the properties of the supplier and it's item or part that is approved by the Change Review Forum. |
| Attachment | 0..n | Attachment | A business property that describes additional information regarding a product or process. |
| effectiveDatePeriod | 1 | DatePeriod | The date range indicating when information or an activity are valid. |
| PreferredStatus | 1 | PreferredStatus | Code identifying the status of an approved product. |
| manufacturedBy | 1 | PartnerDescription | The party who creates, processes or produces goods especially in large quantities and by means of industrial machines. |
| manufacturerItem | 1 | ProductIdentification | Item information described from the perspective of the manufacturer. |
| manufacturerSplit | 0..1 | PercentAmount | The percentage assigned to this manufacturer of a product for which there are alternative manufacturers. |
| ItemCompliance | 0..n | ItemCompliance | To specify the compliance standards that the item should satisfy. |

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### 2.1.4 ApprovedManufacturerListNotification

Contains Approved Manufacturer List data for a given product. The Approved Manufacturer List specifies manufacturer part numbers for parts from approved manufacturers and approved suppliers for the parts.

| Composition | Cardinality | Type | Documentation |
|---|---|---|---|
| DocumentHeader | 1 | DocumentHeader | The object allows for the identification of the sender and receiver of the business document. |
| ApprovedManufacturerList | 1 | ApprovedManufacturerList | The collection of business properties that identifies a list of manufacturers and their parts that are approved for use in the product. |

### 2.1.5 ApprovedSupplierListItem

The collection of business properties that identifies all the properties of the supplier and it's item or part that is approved by the Change Review Forum.

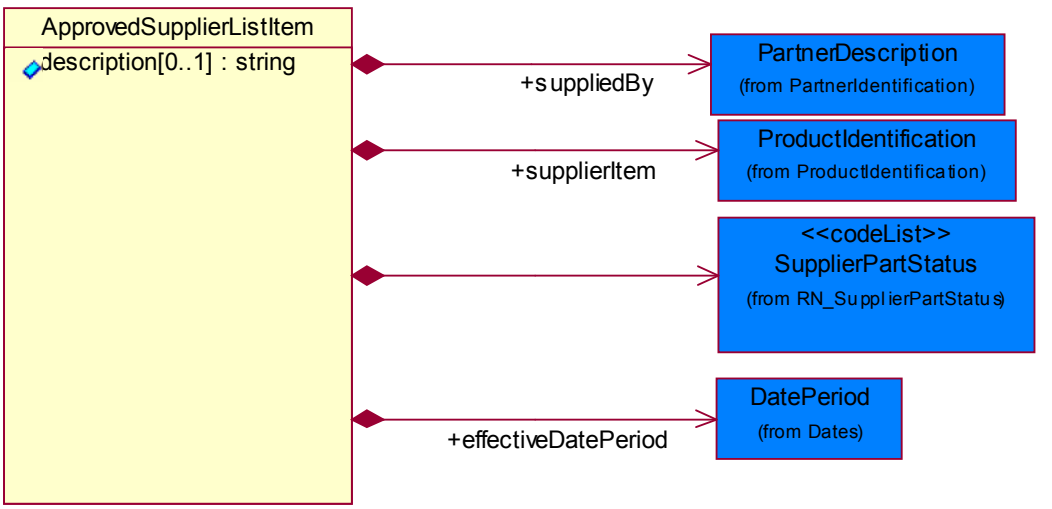


**Figure 2-4 ApprovedSupplierListItem**

| Attribute | Type | Documentation |
|---|---|---|
| description[0..1] | string | A description of a process, thing, action, etc. |

| Composition | Cardinality | Type | Documentation |
|---|---|---|---|
| effectiveDatePeriod | 1 | DatePeriod | The date range indicating when information or an activity are valid. |
| suppliedBy | 1 | PartnerDescription | The party who supplies an item, part or assembly. |
| supplierItem | 1 | ProductIdentification | Item information described from the perspective of the supplier. |

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| | | | |
|---|---|---|---|
| SupplierPartStatus | 1 | SupplierPartStatus | A unique identifier specifying the status of a supplier's item or assembly. |

### 2.1.6 ItemCompliance

To specify the compliance standards that the item should satisfy.

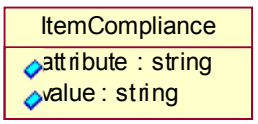


**Figure 2-5 ItemCompliance**

| Attribute | Type | Documentation |
|---|---|---|
| attribute | string | The compliance standards that the item should satisfy. |
| value | string | The worth of an object in the specified unit of measure. |

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# 2.2 Logistics

## 2.2.1 Logistics

### 2.2.1.1 Dependency Diagram

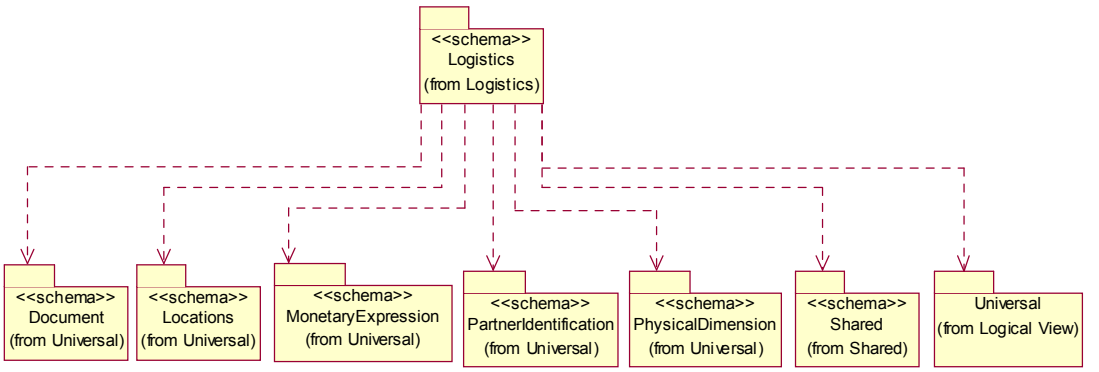


Figure 2-6 Dependency

### 2.2.1.2 Attachment

A business property that describes additional information regarding a product or process.

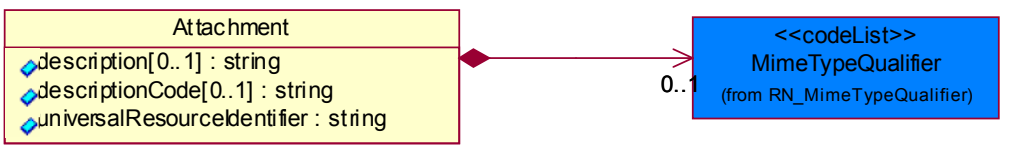


**Figure 2-7 Attachment**

| Attribute | Type | Documentation |
|---|---|---|
| description[0..1] | string | A description of the attachment. |
| descriptionCode[0..1] | string | Code identifying the type of product attachment, e.g. assembly instructions, block diagrams, test requirements, etc. |
| universalResourceIdentifier | string | A network-centric identifier that provides the identity of a resource. |

| Composition | Cardinality | Type | Documentation |
|---|---|---|---|
| MimeTypeQualifier | 0..1 | MimeTypeQualifier | The MIME type as defined by IANA. Please refer to http://www.iana.org/assignments/media-types/ for a list of types. |

## 2.2.2 CodeList

### 2.2.2.1 PreferredStatus

Code identifying the status of an approved product.

| Name | Documentation |
|---|---|
| ALT | Alternate. Alternate approved manufacturer or supplier. |
| DIS | Disqualified. This particular manufacturer or supplier has been disqualified from supplying this part at the approved revision level. |
| EOL | End of Life. A particular part that is going to be used in production only until current inventories are exhausted. |
| NAV | Not Available. This part is not available to the trading partners. |
| OTH | Other. Need agreement before the transaction may continue. |
| PAP | Pilot Approved. New Product Introduction (NPI) approved. This is used in a pilot or development of a product or product line and is not meant to be production approved. |
| PRI | Primary. Primary or preferred approved manufacturer or supplier. |
| SPL | Split. A particular part that is provided by different suppliers to reduce risk or get a price discount, etc. |
| UQU | Under Qualification. A particular part that is undergoing qualification testing for use in production. |

### 2.2.2.2 SupplierPartStatus

A unique identifier specifying the status of a supplier's item or assembly.

| Name | Documentation |
|---|---|
| ABO | Active by order. Part is available only by order and is not stocked. |
| AIS | Active in stock. Part is available immediately from stock. |
| ALL | Allocation. Part is under allocation. |
| CON | Conditional. Supplier has not been qualified for this part but is used under certain conditions. |
| NON | Non-preferred. Supplier should not be used due to business reasons (i.e. cost/pricing). |
| PRE | Preferred. Supplier is preferred for this part. |

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# 3. Universal Structure

## 3.1 Contact Information

### 3.1.1 Contact Information

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.

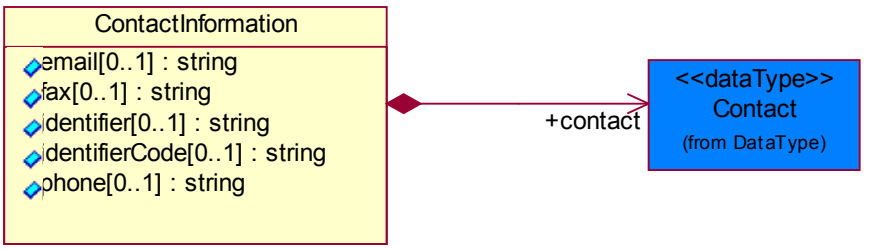


**Figure 3-1 ContactInformation**

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

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

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# 3.2 DataType

## 3.2.1 Contact

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

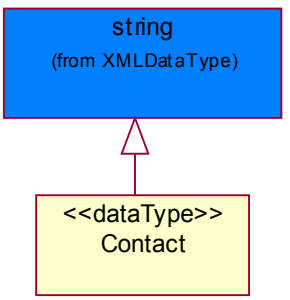


**Figure 3-2 Contact**

## 3.2.2 DUNS

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

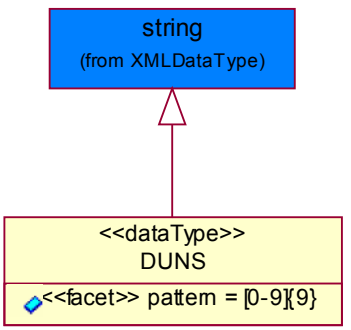


**Figure 3-3 DUNS**

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

### 3.2.3 DUNSPlus4

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

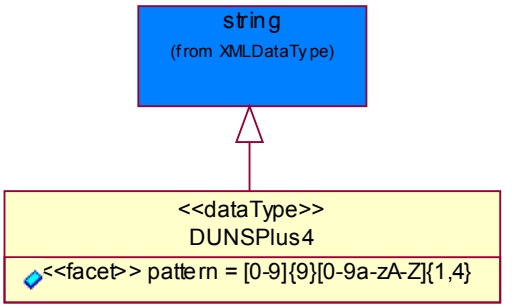


**Figure 3-4 DUNSPlus4**

| 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. |

### 3.2.4 GLN

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

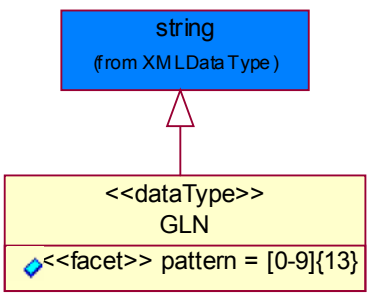


**Figure 3-5 GLN**

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

### 3.2.5 GTIN

Global Trade Identification Number (GTIN).

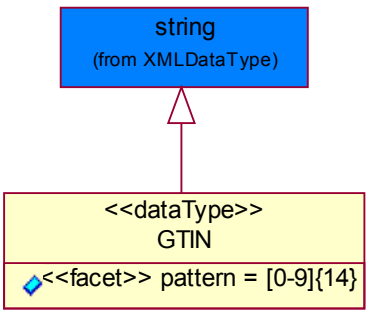


**Figure 3-6 GTIN**

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

### 3.2.6 PercentAmount

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

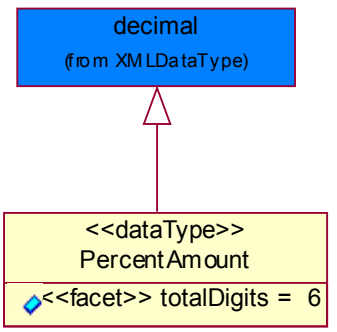


**Figure 3-7 PercentAmount**

| Attribute | Type | Documentation |
|---|---|---|
| totalDigits | | 6 |

## 3.3 Dates

### 3.3.1 DatePeriod

The business document must allow for the computation or statement of a duration based upon a beginning and an ending date.

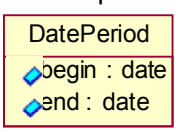


**Figure 3-8 DatePeriod**

| Attribute | Type | Documentation |
|---|---|---|
| begin | date | The date indicating the beginning of the date period. |
| end | date | The date indicating the ending of the date period. |

# 3.4 Document

## 3.4.1 BusinessDocumentReference

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

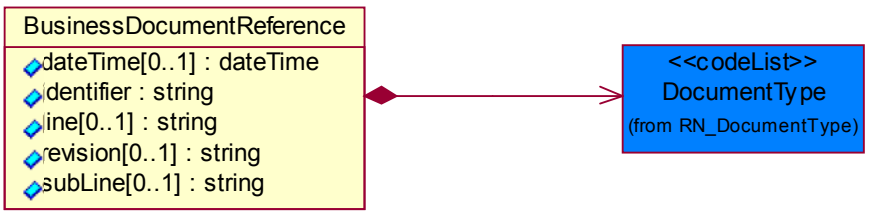


**Figure 3-9 BusinessDocumentReference**

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

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

# 3.5 Locations

## 3.5.1 AlternativeIdentifier

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

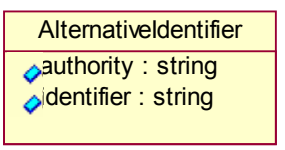


**Figure 3-10 AlternativeIdentifier**

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| 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.). |

### 3.5.2 Location

The business document must specify a location.

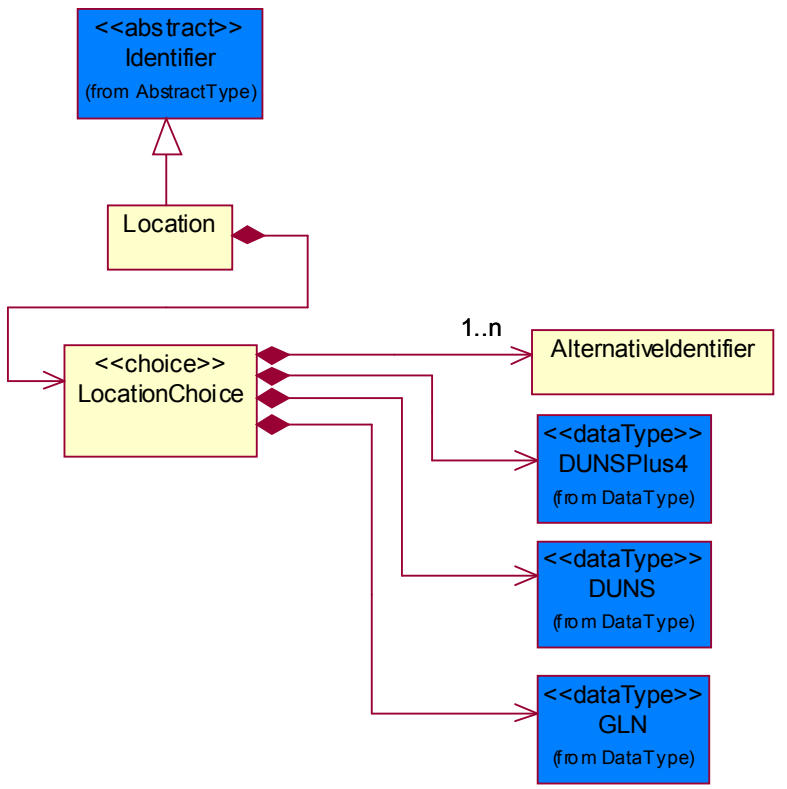


**Figure 3-11 Location**

| Composition | Cardinality | Type | Documentation |
|---|---|---|---|
| LocationChoice | 1 | LocationChoice | |

### 3.5.3 LocationChoice

| Composition | Cardinality | Type | Documentation |
|---|---|---|---|
| DUNSPlus4 | 1 | DUNSPlus4 | A identifier to specify a specific location within a business location. |
| DUNS | 1 | DUNS | A number assigned by Dun and Bradstreet to identify a business location. |
| AlternativeIdentifier | 1..n | AlternativeIdentifier | Identifies the specified code and the name of the organization that a code is |

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| | | | |
|---|---|---|---|
| | | | utilized from. |
| GLN | 1 | GLN | Global Location Number (GLN) - A identifier to identify legal entities, trading parties and location. |

### 3.5.4 PhysicalAddress

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

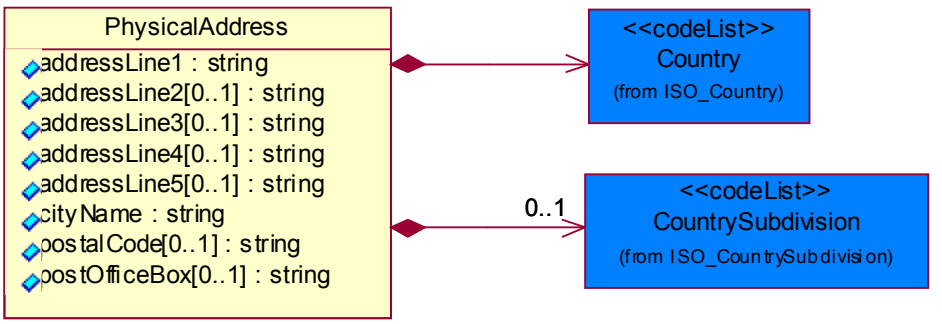


**Figure 3-12 PhysicalAddress**

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

| Composition | Cardinality | Type | Documentation |
|---|---|---|---|
| Country | 1 | Country | For representation of Country name RosettaNet has adopted ISO 3166-3; 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 | 0..1 | CountrySubdivision | For representation of a Countries subdivisions |

| | | | |
|---|---|---|---|
| | | | RosettaNet has adopted ISO 3166-3; 1999. Refer to the following web page to get the latest version of the standard: http://www.iso.ch/iso/en/prods-services/iso3166ma/02iso-3166-code-lists/index.html<br><br>If you need more information about the ISO standard please contact ISO for more details. |

# 3.6 PartnerIdentification

## 3.6.1 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.

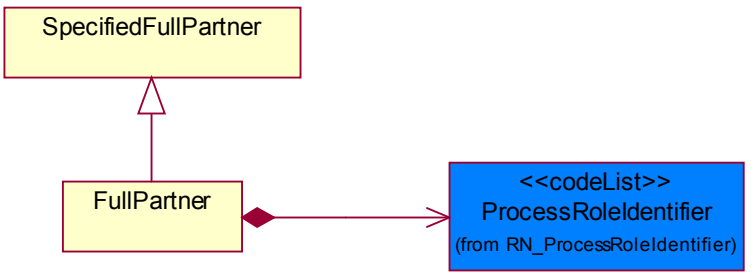


**Figure 3-13 FullPartner**

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

## 3.6.2 IntermittentPartner

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

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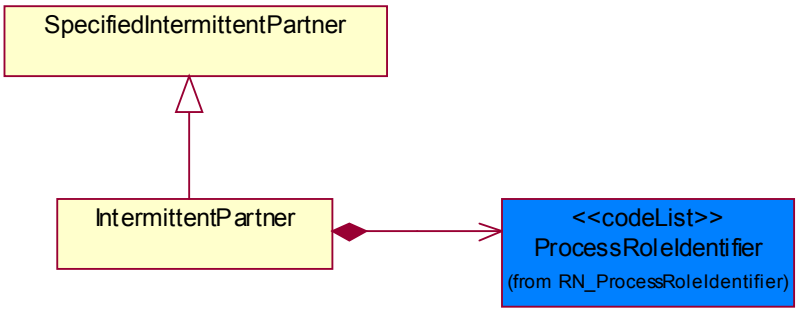


**Figure 3-14 IntermittentPartner**

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

## 3.6.3 KnownPartner

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

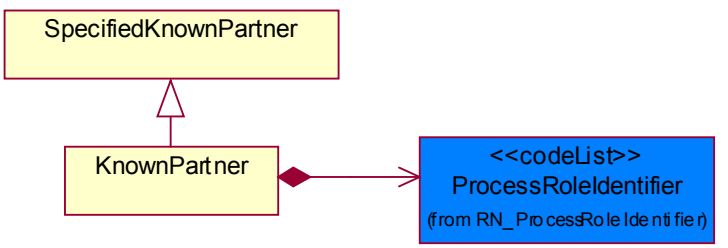


**Figure 3-15 KnownPartner**

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

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### 3.6.4 KnownPartnerContact

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

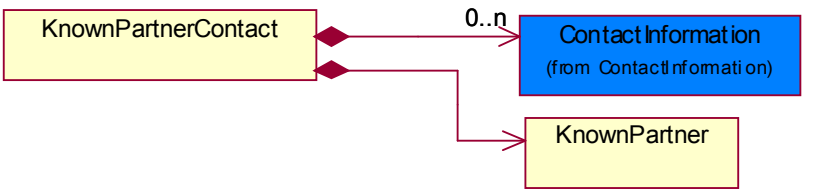


**Figure 3-16 KnownPartnerContact**

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

### 3.6.5 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.

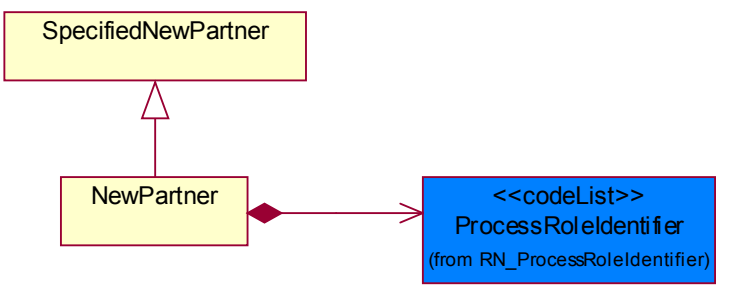


**Figure 3-17 NewPartner**

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

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### 3.6.6 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.

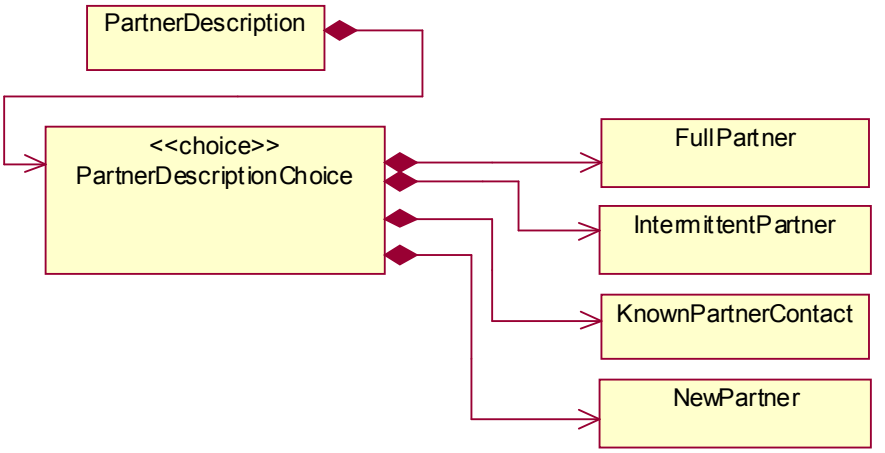


**Figure 3-18 PartnerDescription**

| Composition | Cardinality | Type | Documentation |
|---|---|---|---|
| PartnerDescriptionChoice | 1 | PartnerDescriptionChoice | |

### 3.6.7 PartnerDescriptionChoice

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

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## 3.6.8 PartnerIdentification

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

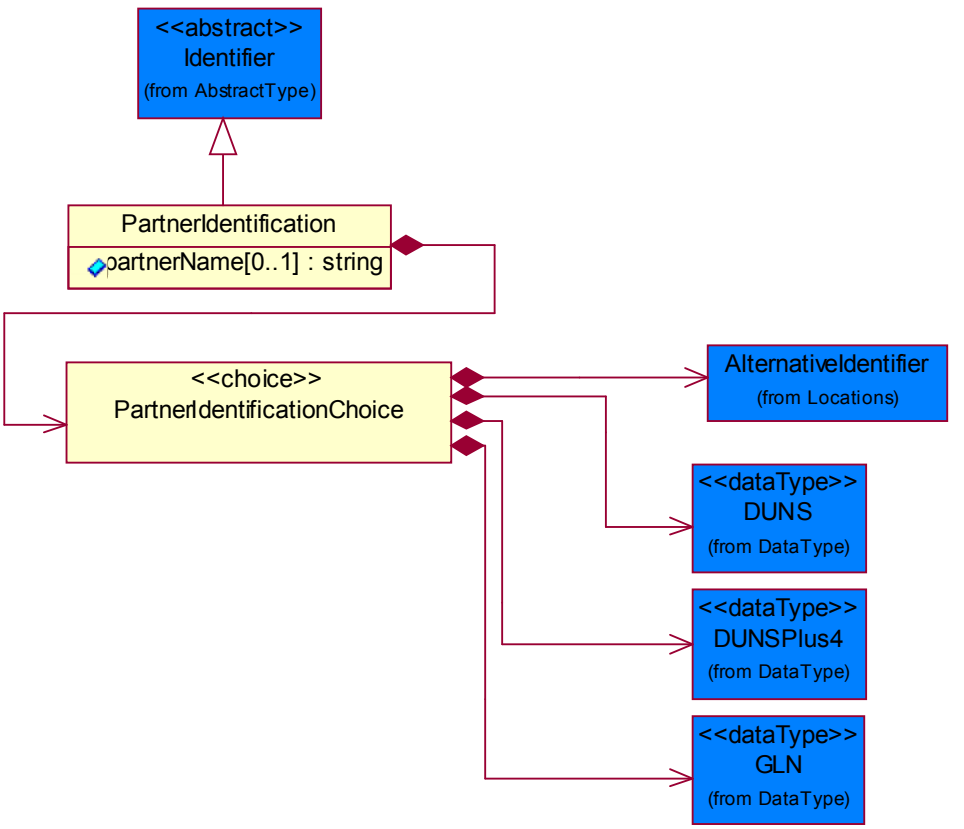


**Figure 3-19 PartnerIdentification**

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

| Composition | Cardinality | Type | Documentation |
|---|---|---|---|
| PartnerIdentificationChoice | 1 | PartnerIdentificationChoice | |

## 3.6.9 PartnerIdentificationChoice

| Composition | Cardinality | Type | Documentation |
|---|---|---|---|
| AlternativeIdentifier | 1 | AlternativeIdentifier | Identifies the specified code and the name of the organization that a code is utilized from. |
| DUNS | 1 | DUNS | A number assigned by Dun and Bradstreet to identify a business location. |

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| | | | |
|---|---|---|---|
| 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. |

### 3.6.10 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.

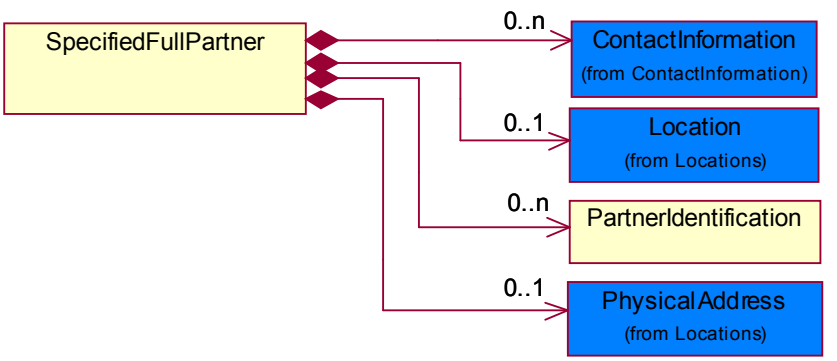


**Figure 3-20 SpecifiedFullPartner**

| Composition | Cardinality | Type | Documentation |
|---|---|---|---|
| ContactInformation | 0..n | ContactInformation | The business document must allow for the identification of the name of the department, service or individual to be contacted regarding the context of the business document. |
| Location | 0..1 | Location | The business document must specify a location. |
| PartnerIdentification | 0..n | PartnerIdentification | The business document must allow for the identity of one or more parties to the transaction. |
| PhysicalAddress | 0..1 | PhysicalAddress | The business document must provide a physical address for a party to the business transaction. |

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### 3.6.11 SpecifiedIntermittentPartner

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

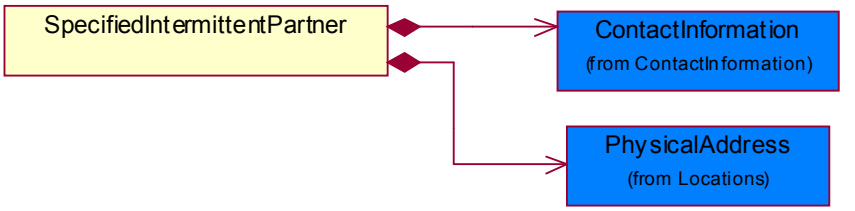


**Figure 3-21 SpecifiedIntermittentPartner**

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

### 3.6.12 SpecifiedKnownPartner

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

**Figure 3-22 SpecifiedKnownPartner**

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

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## 3.6.13 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.

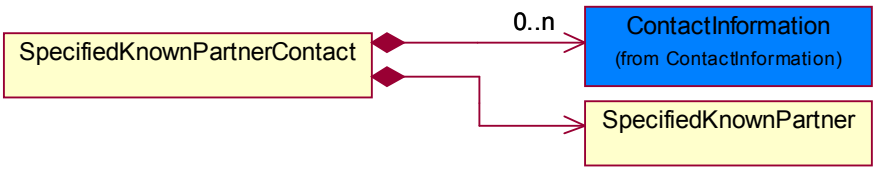


**Figure 3-23 SpecifiedKnownPartnerContact**

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

## 3.6.14 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.

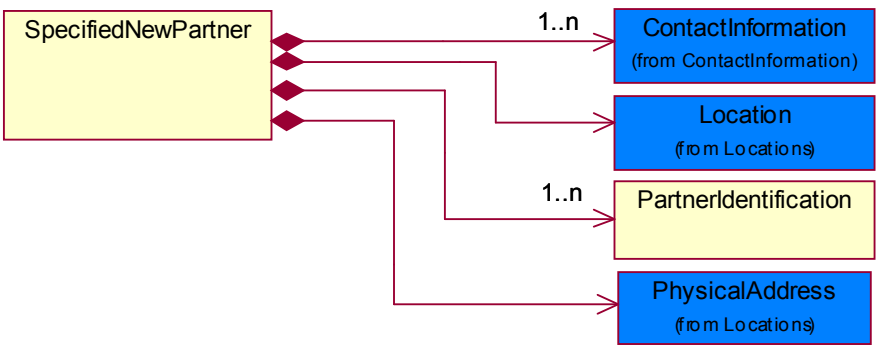


**Figure 3-24 SpecifiedNewPartner**

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

| | | | |
|---|---|---|---|
| | | | regarding the context of the business document. |
| Location | 1 | Location | The business document must specify a location. |
| PhysicalAddress | 1 | PhysicalAddress | The business document must provide a physical address for a party to the business transaction. |
| PartnerIdentification | 1..n | PartnerIdentification | The business document must allow for the identity of one or more parties to the transaction. |

## 3.6.15 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.

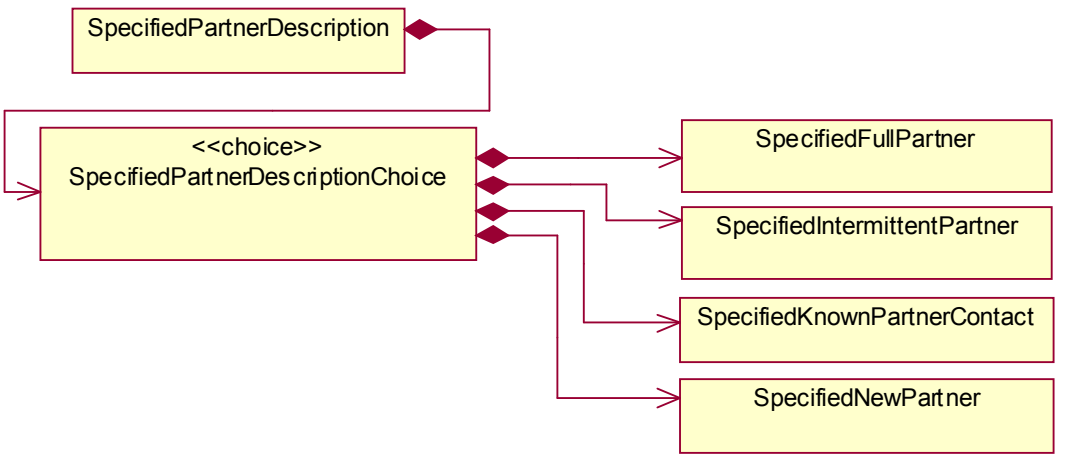


**Figure 3-25 SpecifiedPartnerDescription**

| Composition | Cardinality | Type | Documentation |
|---|---|---|---|
| SpecifiedPartnerDescriptionChoice | 1 | SpecifiedPartnerDescriptionChoice | |

## 3.6.16 SpecifiedPartnerDescriptionChoice

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

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| | | | |
|---|---|---|---|
| entPartner | | Partner | must describe a physical address for a delivery. |
| SpecifiedNewPartner | 1 | SpecifiedNewPartner | The business document must describe a new, existing (but known to only one of the parties to the transaction) or an unknown party to the business transaction. |
| SpecifiedFullPartner | 1 | SpecifiedFullPartner | The business document must describe the trading partners in the business transaction. This data structure provide the flexibility to describe a partner in all possible methods as for new, existing or known partner. This is specifically for partner who role has been specified. |

# 3.7 ProductIdentification

## 3.7.1 ProductIdentification

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

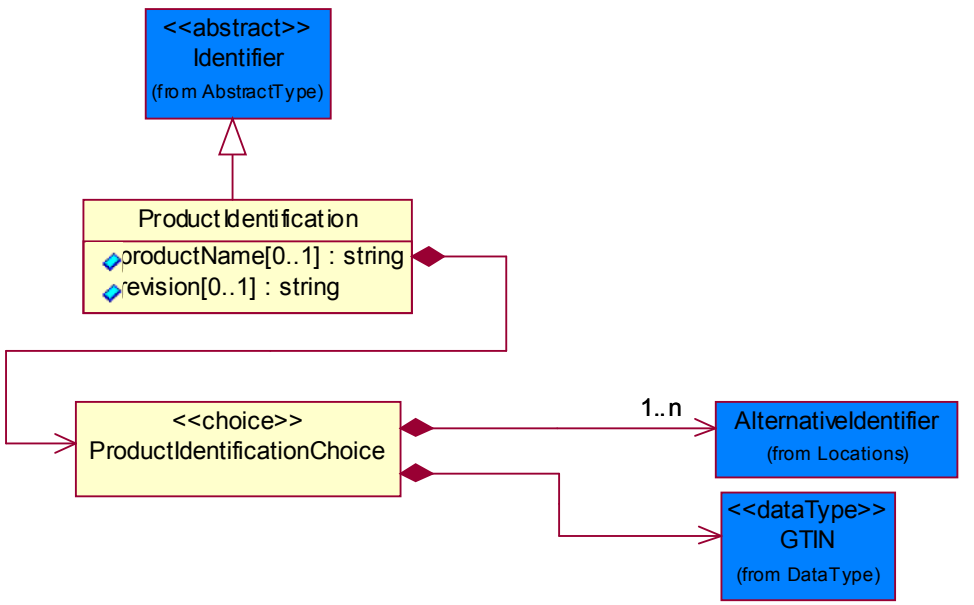


**Figure 3-26 ProductIdentification**

| Attribute | Type | Documentation |
|---|---|---|
| productName[0..1] | string | The name of the product. |

| | | |
|---|---|---|
| revision[0..1] | string | Referenced the specified product revision. |

| Composition | Cardinality | Type | Documentation |
|---|---|---|---|
| ProductIdentificationChoice | 1 | ProductIdentificationChoice | |

### 3.7.2 ProductIdentificationChoice

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

## 3.8 CodeList

### 3.8.1 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.

### 3.8.2 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.

### 3.8.3 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.

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### 3.8.4 DocumentType

A code identifying the business context of a document.

| Instance | Documentation |
|---|---|
| APM | Applied Promotions. |
| ARA | Authorization Request Approval. |
| CAR | Certificate of Analysis Response. |
| CBN | Product batch number of customer. |
| CCN | Customs clearance number. |
| CFA | Failure Analysis - Request document that will accompany the product providing characteristics of the component failure. |
| CIN | Commercial Invoice. |
| CNM | Traditional credit note or memo. |
| COA | Certificate of Analysis. |
| CON | In a virtual sourcing relationship, a third party trading partner is supplying a part to a customer on behalf of another company that has taken the order for the customer. In this case a Customer Order Number is associated to the request for material that is sent to the virtual trading partners. |
| COS | Consumption Notice. |
| COT | Contract. |
| CRN | Unique consumption reference number identifying the product consumption issue i.e. one-to-one relationship with physical flow. |
| DEM | Traditional debit note or memo. |
| DEN | Delivery Note. |
| DIN | Discontinuation Notice. |
| DOR | Delivery Order. |
| DRN | Drawing Number. |
| DRR | Design Registration Request. |
| ECO | Engineering Change Order - The proprietary unique identification number that represents an engineering change order. |
| EDD | Export Declaration Document. |
| EIR | Engineering Information Request. |
| EOL | End of Life. |
| FUO | Sales order or transfer order fulfilling demand out of a facility (outbound shipment). |
| IDD | Import Declaration Document. |
| INV | Invoice. |
| LID | Location Identifier. Data for on-site work that have to be done on the machine (associated with preventive maintenance order). |
| MEN | Master Event Number. |
| MID | Machine Identifier. Data for on-site work that have to be done on the machine (associated with preventive maintenance order). |
| MON | Model Number. |
| NTS | Notes. |
| OCL | The unique identifier assigned by the OEM for a warranty claim. |
| OGA | Other governmental agency issued document. |
| OPO | The unique identifier assigned by the OEM for a part order. |
| OPR | The unique identifier assigned by the OEM for a part return. |
| PCN | Product/Process Change. |

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| | |
|---|---|
| PFA | Failure Analysis - Request document that will accompany the product providing characteristics of the product failure. |
| PII | Refers to previously issued invoice. |
| PLS | Unique number that identifies packing form prior to shipment. |
| POI | Purchase Order IN. |
| PON | Production order number for material release. |
| POO | Purchase Order OUT. |
| PRC | Product Catalog. |
| PSI | Refers to previously issued self-billing invoice. |
| PUO | Purchase Order. |
| QUO | Quote. |
| REC | Document identifying the receipt of materials or products into a facility against a purchase order or transfer order (inbound shipment). |
| REN | Release Number. |
| REO | Purchase order or transfer order replenishing inventory into a facility (inbound shipment). |
| REQ | Requisition. |
| RMA | Returned Material Authorization. |
| RPO | Purchase order for materials or product returned to and reworked by a supplier. |
| RTA | Remittance Advice - Remittance details. |
| SAO | Sales Order. |
| SBC | Credit Memo used in self-billing scenario. |
| SBD | Debit Memo used in self-billing scenario. |
| SBI | Invoice in self billing scenario. |
| SBN | Product batch number of supplier. |
| SCA | Similar to contracts - Contains the quantity of an article that is to be ordered from a vendor and the price for article or service that is to be procured. |
| SEN | Serial Number. |
| SEO | A document that gives a repair provider the necessary authorization to repair or upgrade a product either at the customer site or at the repair provider’s site. |
| SHD | Shipping Document. |
| SNC | Shipset Number on Code List. |
| SPC | The unique identifier assigned by the ASP for a warranty claim. |
| SPN | Spec Number. |
| SPO | The unique identifier assigned by the ASP for a part order. |
| SPR | The unique identifier assigned by the ASP for a part return. |
| SPW | The unique identifier assigned by the ASP to reference a work order. |
| SRI | A document that contains the shipping reference number which allows the product to be tracked within the outsourced logistic providers network. |
| SWT | Switch Authorization. |
| TCS | Terms and Conditions. |
| TRO | Order which results in materials or products being moved from one facility to another (outbound shipment and inbound shipment). |
| WAB | Waybill. |
| WAC | Denotes a warranty claim. |
| WOO | Work Order. |

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### 3.8.5 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] |
| 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] |

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| | |
|---|---|
| application/pdf | [Lindner] |
| application/pgp-encrypted | [RFC3156] |
| application/pgp-keys | [RFC3156] |
| application/pgp-signature | [RFC3156] |
| application/pkcs10 | [RFC2311] |
| application/pkcs7-mime | [RFC2311] |
| application/pkcs7-signature | [RFC2311] |
| application/pkix-cert | [RFC2585] |
| application/pkixcmp | [RFC2510] |
| application/pkix-crl | [RFC2585] |
| application/postscript | [RFC2045,RFC2046] |
| application/prs.alvestrand.titrax-sheet | [Alvestrand] |
| application/prs.cww | [Rungchavalnont] |
| application/prs.nprend | [Doggett] |
| application/prs.plucker | [Janssen] |
| application/qsig | [RFC3204] |
| application/reginfo+xml | [RFC-ietf-sipping-reg-event-00.txt] |
| application/remote-printing | [RFC1486,Rose] |
| application/riscos | [Smith] |
| application/rtf | [Lindner] |
| application/sdp | [RFC2327] |
| application/set-payment | [Korver] |
| application/set-payment-initiation | [Korver] |
| application/set-registration | [Korver] |
| application/set-registration-initiation | [Korver] |
| application/sgml | [RFC1874] |
| application/sgml-open-catalog | [Grosso] |
| application/sieve | [RFC3028] |
| application/slate | [Crowley] |
| application/timestamp-query | [RFC3161] |
| application/timestamp-reply | [RFC3161] |
| application/tve-trigger | [Welsh] |
| application/vemmi | [RFC2122] |
| application/vnd.3gpp.pic-bw-large | [Meredith] |
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| application/vnd.accpac.simply.aso | [Leow] |
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| application/vnd.acucobol | [Lubin] |
| application/vnd.acucorp | [Lubin] |
| application/vnd.adobe.xfdf | [Perelman] |
| application/vnd.aether.imp | [Moskowitz] |
| application/vnd.amiga.ami | [Blumberg] |
| application/vnd.anser-web-certificate-issue-initiation | [Mori] |
| application/vnd.anser-web-funds-transfer-initiation | [Mori] |
| application/vnd.audiograph | [Slusanschi] |

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| application/vnd.blueice.multipass | [Holmstrom] |
| application/vnd.bmi | [Gotoh] |
| application/vnd.businessobjects | [Imoucha] |
| application/vnd.canon-cpdl | [Muto] |
| application/vnd.canon-lips | [Muto] |
| application/vnd.cinderella | [Kortenkamp] |
| application/vnd.claymore | [Simpson] |
| application/vnd.commerce-battelle | [Applebaum] |
| application/vnd.commonspace | [Chandhok] |
| application/vnd.contact.cmsg | [Patz] |
| application/vnd.cosmocaller | [Dellutri] |
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| application/vnd.cups-postscript | [Sweet] |
| application/vnd.cups-raster | [Sweet] |
| application/vnd.cups-raw | [Sweet] |
| application/vnd.curl | [Byrnes] |
| application/vnd.cybank | [Helmee] |
| application/vnd.data-vision.rdz | [Fields] |
| application/vnd.dna | [Searcy] |
| application/vnd.dpgraph | [Parker] |
| application/vnd.dreamfactory | [Appleton] |
| application/vnd.dxr | [Duffy] |
| application/vnd.ecdis-update | [Buettgenbach] |
| application/vnd.ecowin.chart | [Olsson] |
| application/vnd.ecowin.filerequest | [Olsson] |
| application/vnd.ecowin.fileupdate | [Olsson] |
| application/vnd.ecowin.series | [Olsson] |
| application/vnd.ecowin.seriesrequest | [Olsson] |
| application/vnd.ecowin.seriesupdate | [Olsson] |
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| application/vnd.epson.quickanime | [Gu] |
| application/vnd.epson.salt | [Nagatomo] |
| application/vnd.epson.ssf | [Hoshina] |
| application/vnd.ericsson.quickcall | [Tidwell] |
| application/vnd.eudora.data | [Resnick] |
| application/vnd.fdf | [Zilles] |
| application/vnd.ffsns | [Holstage] |
| application/vnd.FloGraphIt | [Floersch] |
| application/vnd.framemaker | [Wexler] |
| application/vnd.fsc.weblaunch | [D.Smith] |
| application/vnd.fujitsu.oasys | [Togashi] |
| application/vnd.fujitsu.oasys2 | [Togashi] |
| application/vnd.fujitsu.oasys3 | [Okudaira] |
| application/vnd.fujitsu.oasysgp | [Sugimoto] |
| application/vnd.fujitsu.oasysprs | [Ogita] |
| application/vnd.fujixerox.ddd | [Onda] |
| application/vnd.fujixerox.docuworks | [Taguchi] |
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| application/vnd.groove-identity-message | [Joseph] |
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| application/vnd.groove-tool-message | [Joseph] |
| application/vnd.groove-tool-template | [Joseph] |
| application/vnd.groove-vcard | [Joseph] |
| application/vnd.hbci | [Hammann] |
| application/vnd.hhe.lesson-player | [Jones] |
| application/vnd.hp-HPGL | [Pentecost] |
| application/vnd.hp-hpid | [Gupta] |
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| application/vnd.hp-PCL | [Pentecost] |
| application/vnd.hp-PCLXL | [Pentecost] |
| application/vnd.httphone | [Lefevre] |
| application/vnd.hzn-3d-crossword | [Minnis] |
| application/vnd.ibm.afplinedata | [Buis] |
| application/vnd.ibm.electronic-media | [Tantlinger] |
| application/vnd.ibm.MiniPay | [Herzberg] |
| application/vnd.ibm.modcap | [Hohensee] |
| application/vnd.ibm.secure-container | [Tantlinger] |
| application/vnd.informix-visionary | [Gales] |
| application/vnd.intercon.formnet | [Gurak] |
| application/vnd.intertrust.digibox | [Tomasello] |
| application/vnd.intertrust.nncp | [Tomasello] |
| application/vnd.intu.qbo | [Scratchley] |
| application/vnd.intu.qfx | [Scratchley] |
| application/vnd.irepository.package+xml | [Knowles] |
| application/vnd.is-xpr | [Natarajan] |
| application/vnd.japannet-directory-service | [Fujii] |
| application/vnd.japannet-jpnstore-wakeup | [Yoshitake] |
| application/vnd.japannet-payment-wakeup | [Fujii] |
| application/vnd.japannet-registration | [Yoshitake] |
| application/vnd.japannet-registration-wakeup | [Fujii] |
| application/vnd.japannet-setstore-wakeup | [Yoshitake] |
| application/vnd.japannet-verification | [Yoshitake] |
| application/vnd.japannet-verification-wakeup | [Fujii] |
| application/vnd.jisp | [Deckers] |
| application/vnd.kde.karbon | [Faure] |
| application/vnd.kde.kchart | [Faure] |
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| application/vnd.kde.kivio | [Faure] |
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| application/vnd.liberty-request+xml | [McDowell] |
| application/vnd.llamagraphics.life-balance.desktop | [White] |
| application/vnd.lotus-1-2-3 | [Wattenberger] |
| application/vnd.lotus-approach | [Wattenberger] |
| application/vnd.lotus-freelance | [Wattenberger] |
| application/vnd.lotus-notes | [Laramie] |
| application/vnd.lotus-organizer | [Wattenberger] |
| application/vnd.lotus-screencam | [Wattenberger] |
| application/vnd.lotus-wordpro | [Wattenberger] |
| application/vnd.mcd | [Gotoh] |
| application/vnd.mediastation.cdkey | [Flurry] |
| application/vnd.meridian-slingshot | [Wedel] |
| application/vnd.micrografx.flo | [Prevo] |
| application/vnd.micrografx.igx | [Prevo] |
| application/vnd.mif | [Wexler] |
| application/vnd.minisoft-hp3000-save | [Bartram] |
| application/vnd.mitsubishi.misty-guard.trustweb | [Tanaka] |
| application/vnd.Mobius.DAF | [Kabayama] |
| application/vnd.Mobius.DIS | [Kabayama] |
| application/vnd.Mobius.MBK | [Devasia] |
| application/vnd.Mobius.MQY | [Devasia] |
| application/vnd.Mobius.MSL | [Kabayama] |
| application/vnd.Mobius.PLC | [Kabayama] |
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| application/vnd.mophun.certificate | [Wennerstrom] |
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| application/vnd.motorola.flexsuite.ttc | [Patton] |
| application/vnd.motorola.flexsuite.wem | [Patton] |
| application/vnd.mozilla.xul+xml | [McDaniel] |
| application/vnd.ms-artgalry | [Slawson] |
| application/vnd.ms-asf | [Fleischman] |
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| application/vnd.ms-excel | [Gill] |
| application/vnd.msign | [Borcherding] |
| application/vnd.ms-lrm | [Ledoux] |
| application/vnd.ms-powerpoint | [Gill] |
| application/vnd.ms-project | [Gill] |
| application/vnd.ms-tnef | [Gill] |
| application/vnd.ms-works | [Gill] |
| application/vnd.ms-wpl | [Plastina] |
| application/vnd.musician | [Adams] |

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| application/vnd.music-niff | [Butler] |
| application/vnd.netfpx | [Mutz] |
| application/vnd.noblenet-directory | [Solomon] |
| application/vnd.noblenet-sealer | [Solomon] |
| application/vnd.noblenet-web | [Solomon] |
| application/vnd.novadigm.EDM | [Swenson] |
| application/vnd.novadigm.EDX | [Swenson] |
| application/vnd.novadigm.EXT | [Swenson] |
| application/vnd.obn | [Hessling] |
| application/vnd.osa.netdeploy | [Klos] |
| application/vnd.palm | [Peacock] |
| application/vnd.pg.format | [Gandert] |
| application/vnd.pg.osasli | [Gandert] |
| application/vnd.powerbuilder6 | [Guy] |
| application/vnd.powerbuilder6-s | [Guy] |
| application/vnd.powerbuilder7 | [Shilts] |
| application/vnd.powerbuilder75 | [Shilts] |
| application/vnd.powerbuilder75-s | [Shilts] |
| application/vnd.powerbuilder7-s | [Shilts] |
| application/vnd.previewsystems.box | [Smolgovsky] |
| application/vnd.publishare-delta-tree | [Ben-Kiki] |
| application/vnd.pvi.ptid1 | [Lamb] |
| application/vnd.pwg-multiplexed | [RFC3391] |
| application/vnd.pwg-xhtml-print+xml | [Wright] |
| application/vnd.Quark.QuarkXPress | [Scheidler] |
| application/vnd.rapid | [Szekely] |
| application/vnd.s3sms | [Tarkkala] |
| application/vnd.sealed.net | [Lambert] |
| application/vnd.seemail | [Webb] |
| application/vnd.shana.informed.formdata | [Selzler] |
| application/vnd.shana.informed.formtemplate | [Selzler] |
| application/vnd.shana.informed.interchange | [Selzler] |
| application/vnd.shana.informed.package | [Selzler] |
| application/vnd.smaf | [Takahashi] |
| application/vnd.sss-cod | [Dani] |
| application/vnd.sss-dtf | [Bruno] |
| application/vnd.sss-ntf | [Bruno] |
| application/vnd.street-stream | [Levitt] |
| application/vnd.svd | [Becker] |
| application/vnd.swiftview-ics | [Widener] |
| application/vnd.triscape.mxs | [Simonoff] |
| application/vnd.trueapp | [Hepler] |
| application/vnd.truedoc | [Chase] |
| application/vnd.ufdl | [Manning] |
| application/vnd.uplanet.alert | [Martin] |
| application/vnd.uplanet.alert-wbxml | [Martin] |
| application/vnd.uplanet.bearer-choice | [Martin] |
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| application/vnd.uplanet.cacheop | [Martin] |

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| application/vnd.uplanet.cacheop-wbxml | [Martin] |
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| application/vnd.uplanet.listcmd | [Martin] |
| application/vnd.uplanet.listcmd-wbxml | [Martin] |
| application/vnd.uplanet.list-wbxml | [Martin] |
| application/vnd.uplanet.signal | [Martin] |
| application/vnd.vcx | [T.Sugimoto] |
| application/vnd.vectorworks | [Pharr] |
| application/vnd.vidsoft.vidconference | [Hess] |
| application/vnd.visio | [Sandal] |
| application/vnd.visionary | [Aravindakumar] |
| application/vnd.vividence.scriptfile | [Risher] |
| application/vnd.vsf | [Rowe] |
| application/vnd.wap.sic | [WAP-Forum] |
| application/vnd.wap.slc | [WAP-Forum] |
| application/vnd.wap.wbxml | [Stark] |
| application/vnd.wap.wmlc | [Stark] |
| application/vnd.wap.wmlscriptc | [Stark] |
| application/vnd.webturbo | [Rehem] |
| application/vnd.wrq-hp3000-labelled | [Bartram] |
| application/vnd.wt.stf | [Wohler] |
| application/vnd.wv.csp+wbxml | [Salmi] |
| application/vnd.xara | [Matthewman] |
| application/vnd.xfdl | [Manning] |
| application/vnd.yellowriver-custom-menu | [Yellow] |
| application/whoispp-query | [RFC2957] |
| application/whoispp-response | [RFC2958] |
| application/wita | [Campbell] |
| application/wordperfect5.1 | [Lindner] |
| application/x400-bp | [RFC1494] |
| application/xhtml+xml | [RFC3236] |
| application/xml | [RFC3023] |
| application/xml-dtd | [RFC3023] |
| application/xml-external-parsed-entity | [RFC3023] |
| application/zip | [Lindner] |
| audio/32kadpcm | [RFC2421,RFC2422] |
| audio/AMR | [RFC3267] |
| audio/AMR-WB | [RFC3267] |
| audio/basic | [RFC2045,RFC2046] |
| audio/CN | [RFC3389] |
| audio/DAT12 | [RFC3190] |
| audio/DVI4 | |
| 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 | |
| audio/G723 | |
| audio/G726-16 | |

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| 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] |
| audio/vnd.nuera.ecelp9600 | [Fox] |
| audio/vnd.octel.sbc | [Vaudreuil] |
| audio/vnd.qcelp | [Lundblade] |
| audio/vnd.rhetorex.32kadpcm | [Vaudreuil] |
| audio/vnd.vmx.cvsd | [Vaudreuil] |
| image/cgm | Computer Graphics Metafile |
| image/g3fax | [RFC1494] |
| image/gif | [RFC2045,RFC2046] |
| image/ief | [RFC1314] Image Exchange Format |
| image/jpeg | [RFC2045,RFC2046] |
| image/naplps | [Ferber] |

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| 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] |
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| 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 | [Babits] |
| model/vnd.gtw | [Ozaki] |
| model/vnd.mts | [Rabinovitch] |
| model/vnd.parasolid.transmit.binary | [Parasolid] |
| model/vnd.parasolid.transmit.text | [Parasolid] |
| model/vnd.vtu | [Rabinovitch] |
| model/vrml | [RFC2077] |
| multipart/alternative | [RFC2045,RFC2046] |
| multipart/appledouble | [Faltstrom] |
| multipart/byteranges | [RFC2068] |
| multipart/digest | [RFC2045,RFC2046] |
| multipart/encrypted | [RFC1847] |

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| 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.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] |
| 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 | |

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|---|---|
| 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] |

### 3.8.6 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<br>This object represents the party that declare the shipment on behalf of declarant. |
| CLF | Collect From - To enable the buyer to specify the location of where products not supplied directly by the seller/installer may be collected. |
| CLM | Claimed By - This object represents the claimant. |
| CNC | Cancellation party - The party who is cancelling the shipping order. |
| COR | Change originated by - The party who originates a proposed change. |
| COW | Change owned by - The party who owns or who is assigned responsibility for a proposed change. |
| CRA | Credit applicant - The party who is applying for credit. |
| CRE | Created by - The party responsible for creating a process or task. |
| CSP | Contract Service Provider. |
| CWN | contractOwner - The party who is the owner of the contract. For example, in the direct business, the buyer is the contract owner. In the distribution |

| | |
|---|---|
| | business, the buyer is the distributor and the contract owner is the reseller. |
| DCE | DesignCustomerApplicationEngineer. The demand customer's Field Application Engineer. |
| DCT | Declared To - This object represents the party that the declaration goes to. |
| DCU | DesignCustomer. The owner of the product for which the design has been created. |
| DIS | Distributed by - The party who supplies products to retailers. |
| DLR | Declared By - This object represents the party that declare the shipment. |
| DST | Distributed To - This object represents the party to send information to. |
| FCP | Forecast Partner - The collection of business properties that describes the partner types for a forecast. |
| FIA | From Install At - The collection of sender business properties that describes a business partners' identity, their contact information, where they are physically located and their function in a supply chain. |
| FIN | Financed by - The party who is the financier. |
| FNB | Founded by - The party who performs the act, process, or art of casting metals. |
| FOR | Forwarded to - The party to whom a business document has been forwarded. |
| IMB | Imported By - The party responsible for importing the product. |
| INL | Inventory location - The party where the inventory product entry is located. |
| INO | Inventory owner - The party that owns the inventory product entry. |
| ITF | In transit from - The party sending the product quantity in a product location transfer. |
| ITL | installAt - The partner and/or location to which the product must be set up for use or service. |
| ITT | In transit to - The party receiving the product quantity in a product location transfer. |
| LGP | Logistics Provided By - The party who handles the details of an operation. |
| MFG | Manufactured by - The party who creates, processes or produces goods especially in large quantities and by means of industrial machines. |
| OWN | Owned by - The party who owns a process. |
| PAE | ProductProviderFieldApplicationEngineer. The product provider Field Application Engineer. |
| PCW | Primary Contract With - The primary party with whom a contract is formed. |
| PNB | Planning By - The party who establishes goals, policies or procedures. |
| PSR | ProductProviderSalesRepresentative. The product provider sales representative. |
| PUR | Purchased by - The party who is a purchaser of a product. |
| REA | Requested approval by - The party who has been selected to approve a request. |
| REC | Received by - The party who has received a product shipment. |
| REQ | Requested by - The party who has initiated a request. |
| RES | Respond to - The party to whom a responding business document must be sent when it is not equal to the partner specified in the document header. |
| RET | Return by - The party responsible for either carrying or forwarding the |

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| | |
|---|---|
| | returned product. |
| REV | Reviewed by - The party responsible for reviewing a business document. |
| RFR | receivedFrom - The partner and/or location from where the product was shipped. |
| RLS | Released By - This object represents the party that releases the goods. |
| RMT | remitTo - The partner to which payment for a business document is sent. |
| RPB | Repaired By - The collection of business properties used to identify the business partner responsible for the repair or rework of a product. |
| RQT | Refer Quote To - The partner to whom a quote request is being referred. |
| RSF | Requested Ship From - The party where the product is requested to be shipped from. |
| RTT | ReturnTo - The partner and/or location to which the returned product must be delivered. |
| SBF | Self-billing from - The party who initiates the billing in self-billing scenario. |
| SBT | Self-billing to - The party whom the invoice is addressed to. |
| SCB | Subcontracted By - The party who is contracted to perform part or all of another party's contract. |
| SCP | Shipping charges paid by - The party responsible for administering payment of the shipping charges. |
| SCW | Secondary Contract With - The subsequent party(ies) with whom a contract is formed. |
| SHF | Ship From - The collection of business properties used to identify the business partner initiating a shipment or transaction. |
| SHT | Ship To - The partner and/or location to which the product must be delivered. |
| SLD | Sold to - The party to whom a product has been sold. |
| SOB | Sold By - The seller involved in a business transaction. |
| SPL | Supplied by - The party who supplies an item, part or assembly. |
| SPS | Service Provider Site - Identification for the location of the ASP site that is ordering the replacement parts and/or performing the repair. |
| SRT | Submit returns to - The party to whom product returns are to be submitted. |
| STR | Stored By - This object represents the party that stores the goods. |
| SVA | ShipVia - The partner and/or location through which the product must be shipped, such as the "cross dock" at a shipping hub.<br>It must not be specified for the last leg, since this would be the same as the final destination specified in the ShipmentInformation/shipTo. |
| TFR | Transfer From - The party responsible for making the payment (Payer). |
| TIA | To Install At - The collection of receiver business properties that describes business partners' identity, their contact information, where they are physically located and their function in a supply chain. |
| TMT | Transfer Manufacturing To - The movement of the manufacturing process to another site. |
| TRA | Transported by - The party responsible for either carrying or forwarding the product. |
| TSB | Tested By - The collection of business properties used to identify the specific location and resources used to conduct a defined cycle or steps or measurements required to confirm a result or event. |
| TTR | Transfer To - The party who is receiving the payment (payee). |
| ULR | Ultimate recipient - The party who ultimately receives the shipment, |

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| | |
|---|---|
| | 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. |

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# 4. System Structure

## 4.1 BusinessProcessIdentifier

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

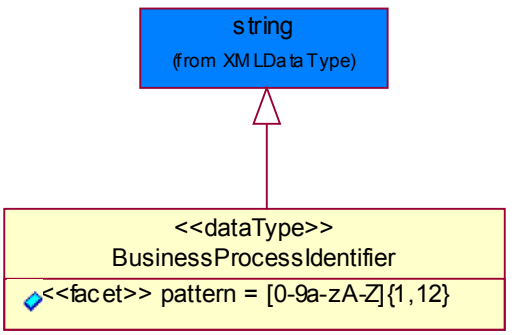


**Figure 4-1 BusinessProcessIdentifier**

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

## 4.2 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.

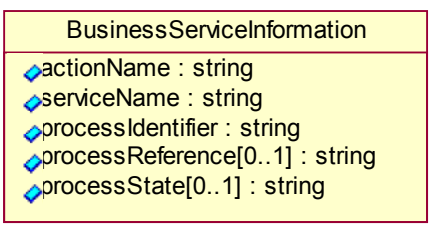


**Figure 4-2 BusinessServiceInformation**

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

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| | | |
|---|---|---|
| | | the interface process (such as PIP3A4) |
| processState[0..1] | string | The business process (or service) state of the sender of a document. When a service receives this document, the receiver may use the state as a precondition. |

## 4.3 ContractInformation

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

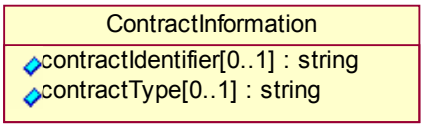


**Figure 4-3 ContractInformation**

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

## 4.4 CorrelationInformation

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

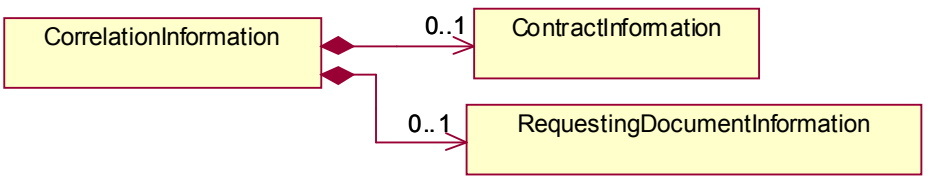


**Figure 4-4 CorrelationInformation**

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

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## 4.5 DocumentHeader

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

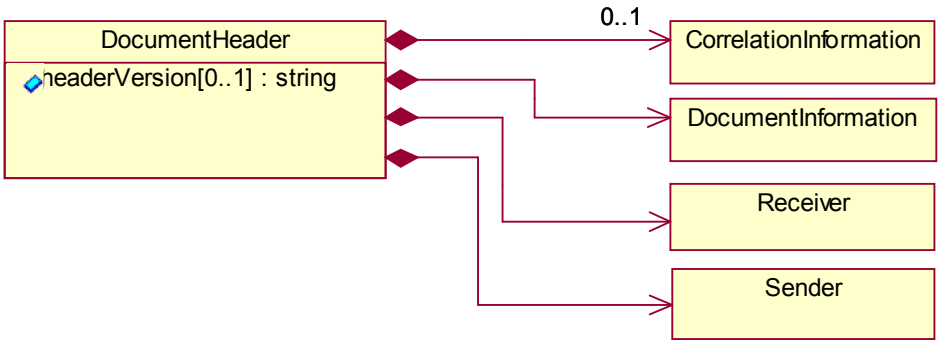


**Figure 4-5 DocumentHeader**

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

| Composition | Cardinality | Type | Documentation |
|---|---|---|---|
| Sender | 1 | Sender | The object allows the identification of the initiating party of the business message. |
| CorrelationInformation | 0..1 | CorrelationInformation | A block of information used to correlate a requesting document to a responding document and to the contract in an executing choreography. |
| DocumentInformation | 1 | DocumentInformation | The object specifies information to identify the business document, a summary of attachments, and information about the business document security. |
| Receiver | 1 | Receiver | The object allows the identification of the receiving party of the business message. |

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## 4.6 DocumentIdentification

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

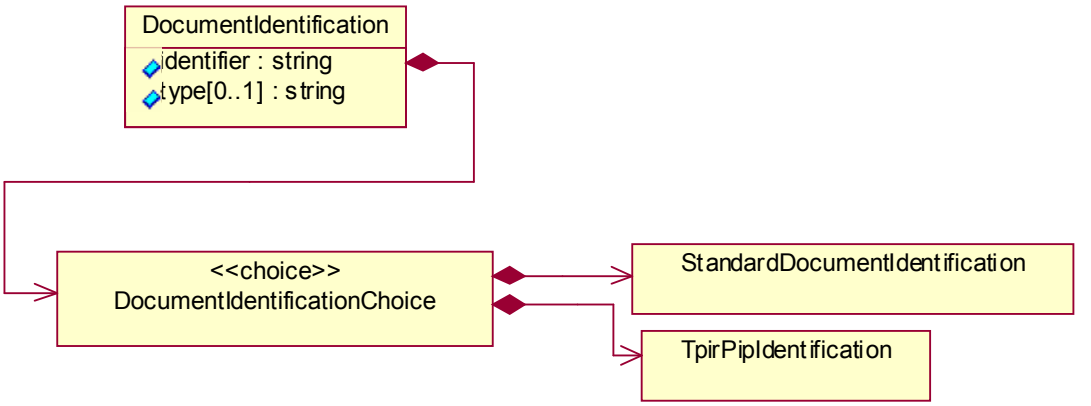


**Figure 4-6 DocumentIdentification**

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

| Composition | Cardinality | Type | Documentation |
|---|---|---|---|
| DocumentIdentificationChoice | 1 | DocumentIdentificationChoice | |

## 4.7 DocumentIdentificationChoice

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

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## 4.8 DocumentInformation

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

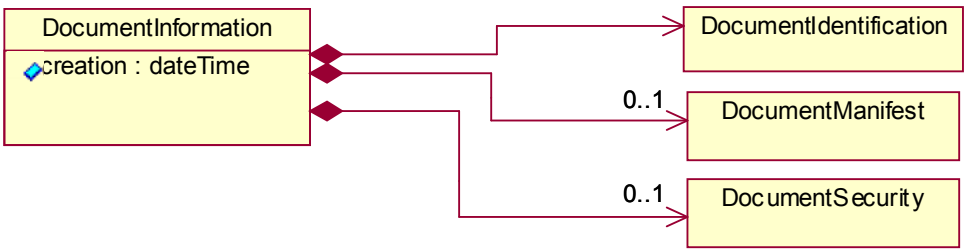


**Figure 4-7 DocumentInformation**

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

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

## 4.9 DocumentManifest

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

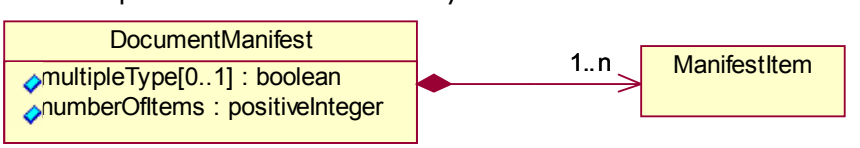


**Figure 4-8 DocumentManifest**

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

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

## 4.10 DocumentSecurity

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

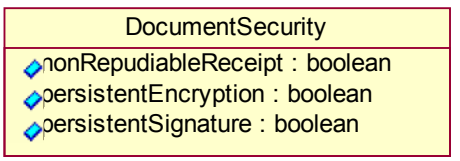


**Figure 4-9 DocumentSecurity**

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

## 4.11 ManifestItem

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

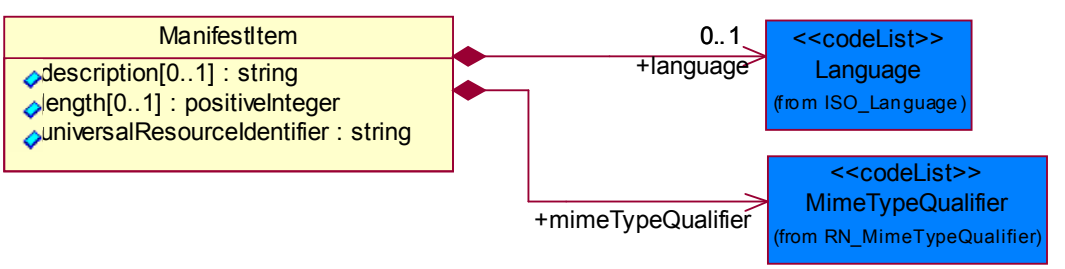


**Figure 4-10 ManifestItem**

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

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

## 4.12 PipIdentifier

PIP Identification.[ i.e. PIP3A4]

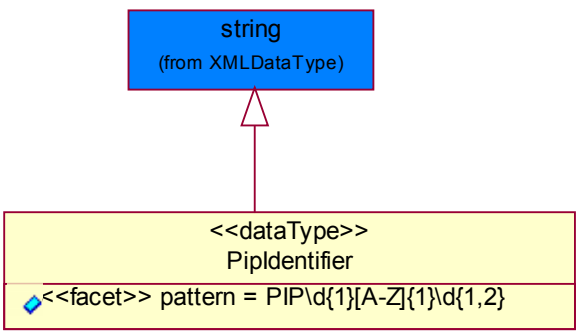


**Figure 4-11 PipIdentifier**

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

## 4.13 PipVersion

PIP version number (i.e. 02.02.00).

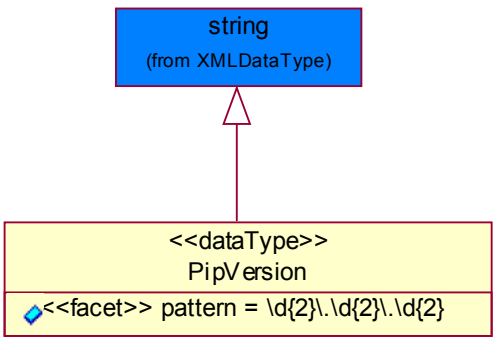


**Figure 4-12 PipVersion**

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

## 4.14 Receiver

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

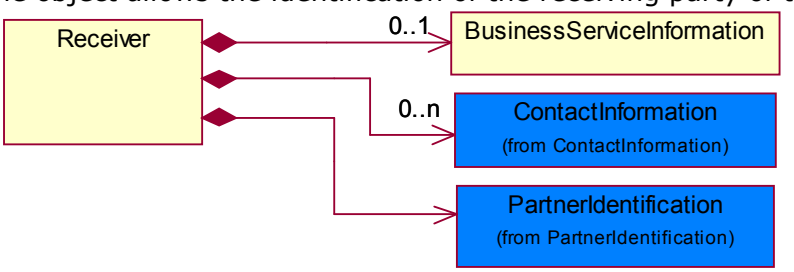


**Figure 4-13 Receiver**

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

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## 4.15 RequestingDocumentInformation

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

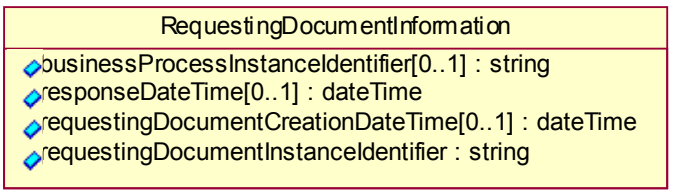


**Figure 4-14 RequestingDocumentInformation**

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

## 4.16 Sender

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

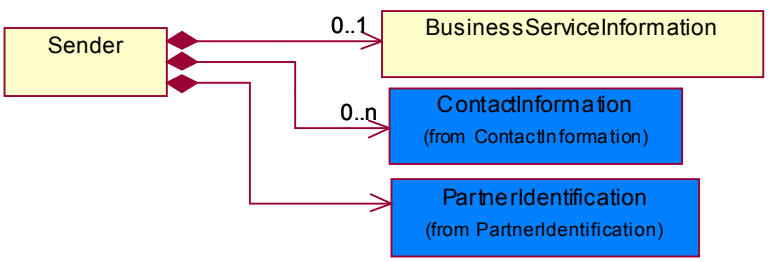


**Figure 4-15 Sender**

| Composition | Cardinality | Type | Documentation |
|---|---|---|---|
| PartnerIdentificati on | 1 | PartnerIdentificat ion | The business document must allow for the identity of one or more parties to the transaction. |
| BusinessServiceIn formation | 0..1 | BusinessServiceI nformation | 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. |

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| | | | |
|---|---|---|---|
| ContactInformation | 0..n | ContactInformation | The business document must allow for the identification of the name of the department, service or individual to be contacted regarding the context of the business document. |

## 4.17 StandardDocumentIdentification

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

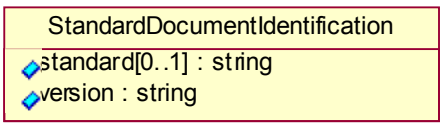


**Figure 4-16 StandardDocumentIdentification**

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

## 4.18 TpirPipIdentification

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

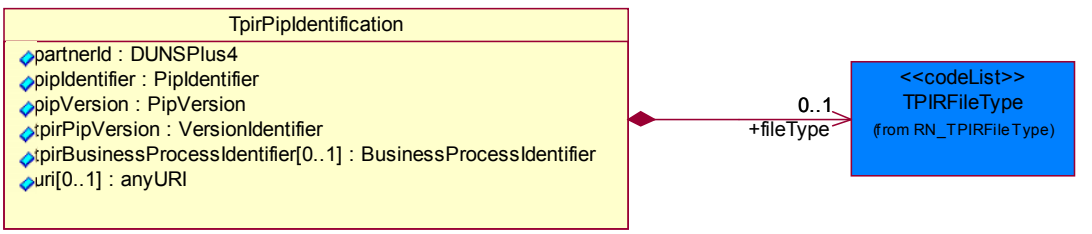


**Figure 4-17 TpirPipIdentification**

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

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

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

## 4.19 VersionIdentifier

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

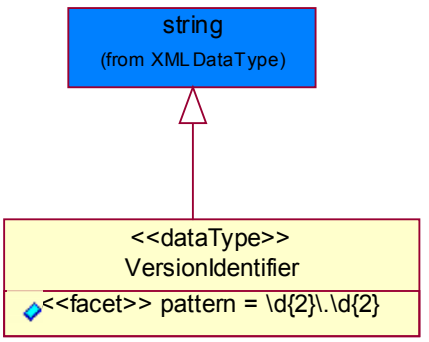


**Figure 4-18 VersionIdentifier**

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

## 4.20 CodeList

### 4.20.1 TPIRFileType

A code identifying the file type of TPIR form.

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

# 5. XML Data Type

## 5.1 anyURI

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

## 5.2 boolean

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

## 5.3 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.

## 5.4 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.

## 5.5 decimal

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

## 5.6 positiveInteger

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

## 5.7 string

Represents character string.

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