

SPECIFICATION

# Purchase Order Creation

Version 0.6

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Submodel Template of the  
Asset Administration Shell

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## Foreword

Purchase orders are the basis of almost all business processes, either for ordering a product, item, raw materials or service. The purchase order process is a fundamental component of efficient and accountable business operations. It contributes to cost control, accurate record-keeping, supplier relationships, and overall financial health, making it economically relevant for businesses of all sizes and industries. Because demand for products is the starting point for purchase orders and thus the production of goods, they play a crucial role in the value chain.

This document describes the specification of AAS Submodel Purchase Order Creation as a part of a set of three Submodels (Purchase Request Notification, Purchase Request Response, Purchase Order Creation) to depict the purchase order process from request to order completion in the Asset Administration Shell.

These Submodels close the gap between existing standard formats for describing process orders and Industry 4.0 standards to support interoperability between these standards and the AAS of the items (assets) which are the subject of the purchase orders.

The Submodel Purchase Order Creation aims to provide a standardized property structure for purchase orders made by a buyer / customer to one or more seller / supplier.

The Submodel has been developed in the joint-project InterOpera by a working group of industrial and scientific specialists with different roles related to predictive maintenance. The members of the working group are listed in authors caption on page 2.

# 1 General

## 1.1 About this document

This document is a part of a specification series. Each part specifies the contents of a Submodel template for the Asset Administration Shell (AAS). The AAS is described in [1-3] and [6]. First exemplary Submodel contents were described in [4], while the actual format of this document was derived by the "Administration Shell in Practice" [5]. The format aims to be very concise, giving only minimal necessary information for applying a Submodel template, while leaving deeper descriptions and specification of concepts, structures and mapping to the respective documents [1-6].

The target group of the specification are developers and editors of technical documentation and manufacturer information, which are describing assets in smart manufacturing by means of the Asset Administration Shell (AAS) and therefore need to create a Submodel instance with a hierarchy of SubmodelElements. This document especially details on the question, which SubmodelElements with which semantic identification shall be used for this purpose.

## 1.2 Scope of the Submodel

This Submodel template aims at interoperable provision of information describing a purchase order from a customer to a supplier in regard to the asset of the respective Asset Administration Shell. Central element is the provision of properties [7], ideally interoperable by the means of dictionaries such as ECLASS and IEC CDD (Common Data Dictionary). The purpose of this document is to make selected specifications of Submodels in such manner that information about assets can be exchanged in a meaningful way between partners in a value creation network. It targets purchase order processes and the information involved in such processes.

The intended use-case is the provision of a standardized property structure for purchase orders, which enables the standardized provision of information in the context of a purchase order and data exchange which production planning.

This concept can serve as a basis for standardizing the respective Submodel. The conception is based on existing norms, studies of common practices at enterprises, directives and standards so that a far-reaching acceptance can be achieved.

Beside standardized Submodel this template also introduces standardized SubmodelElementCollections (SMC) in order to improve the interoperability while modelling aspects of purchase order relevant topics within other Submodels.

The Asset Administration Shell (AAS) is to be used to map the information of a purchase order processes. This comprises in particular B2B transactions (business-to-business) in which companies purchase production components and resources for more complex assemblies and products within the value chain.

For this purpose, the purchase request, response and order creation of an interested party is standardised to enable orders of articles, materials or services from one or more supplier(s) via a structured format, also taking into account variants.

A transferability of the Submodel to the B2C business (business-to-customer), in which the end customer orders a product, is additionally considered.



Crucial to the seamless processing of the order process is the consideration and provision of item lists (BOM: Bill of Material) for the requested product, but also the necessary production equipment to carry out the subsequent order in the form of a work plan.

If different variants of a supplier product are requested by the client, the effort involved in the feasibility test increases accordingly. The dependency on other manufacturing processes, e.g. via co-products (by-products that can be used by or for other products) increase the complexity.

Once the feasibility has been checked, the costs associated with the order, such as personnel costs and current material/raw material prices can be considered.

Conversely, the buyers / customers, i.e. OEM face the challenge of requesting and ordering the production of sub-components or parts of their products from a large number of different suppliers.

In general, the process can be described as the generation of a purchase order request by the client, the processing and feedback from the supplier with a specific quotation and the confirmation of the quotation by the buyer (order). Often, several rounds of coordination between the client and the supplier are necessary. The time required for both clients and suppliers is correspondingly high, especially since different ERP systems can be used and the procedures for processing order processes differ from company to company.

The standardization is intended to create a possibility for automating the purchase ordering process, particularly the feasibility check in production planning. In addition to technical features, time-related features such as availability of production machines and personnel as well as monetary features such as production and raw material costs can to be taken into account for the calculation of the price.

If the a purchase request of a buyer, e.g. an original equipment manufacturer (OEM), refers to a product which is not available out-of-shelf, manual feasibility checks have to be performed by production planners, which can be very time consuming and error-prone in non-standardized processes, especially if several variants are requested.

In order to enable an efficient, less error-prone processing of purchase orders, the information about the order and description of items which are subject of the order should be represented in the Asset Administration Shell (AAS). This allows to use technical data and capability descriptions from the digital twins of the items. In addition, this also creates opportunities for automation of feasibility checks in production planning.

The implementation is divided into three sub-areas (AAS Submodels):

- Purchase Request Notification,
- Purchase Request Response from the supplier with a concrete offer and
- Purchase Order Creation

In this document the Submodel **Purchase Order Creation** is specified.

## **Use case example**

### ***Typical application***

An automobile manufacturer (client) would like to have a interior panel made of plastic on the dashboard manufactured by a supplier (supplier) for a new vehicle model. There are several color and material variants for the interior trim, but also shape variants depending on the additional equipment of the vehicle, e.g. cutouts for controls. The client's design department (designer) provides various CAD drawings via a link in the article's administration shell.

In a purchase request from the purchasing department of the client (buyer), the information about the administration shell is sent via the ERP system to a selection of possible suppliers as a purchase request notification. The suppliers can automatically transfer the information from this into the offer template provided via the Submodel Purchase Request Response. The production planning department (production planner) of the supplier checks the feasibility of the request with regard to technical features, resource availability and scheduling, e.g. via suitable checklists or comparisons of features available through technical descriptions in the AAS items and creates the required production orders in the sub-model by selecting the necessary and available resources. According to the production orders, the prices and time capacities for the supplier's internal resources are determined and the corresponding information on the externally sourced resources is requested. A corresponding price for the offer is calculated from the individual prices for the resources. If the feasibility is met, the offer configured in the Submodel Purchase Request Response will be supplemented by the supplier with regard to the offer price and, if necessary, additional descriptions and sent back to the client.

The client checks the offer and, if necessary, coordinates it with the supplier. The client sends the supplier who wins the contract a purchase order via the Purchase Order Creation Submodel, into which the necessary information from the Submodels Purchase Request Notification and Purchase Request Response might be automatically transferred.

In principle, suppliers could also use the same Submodels concept to request their externally sourced resources (materials/raw materials).

### ***Demonstrational use case example***

As a demonstrational use case example the purchasing process of a rotary lobe pump is used to show the capabilities and usage of the Submodel. In this simple purchasing order a buyer, and a seller is involved. The pump is to be delivered to another address (production department) as the buyer address (purchasing department). The order consists of one item (the rotary lobe pump) and demonstrates a use case for ordering a product from a product catalogue.

### 1.3 Relevant standards and sources of concepts for the Submodel template

According to [3], interoperable properties might be defined by standards, consortium specifications or manufacturer specifications. Useful standards providing sources of concepts are:

Table 1: List of exemplary standards defining interoperable properties

VDA 4901	Basic concepts for data exchange in the supply chain V1.0 2019-12, German Association of the Automotive Industry (VDA) [8]
UN/EDIFACT	United Nations rules for Electronic Data Interchange for Administration, Commerce and Transport comprise a set of internationally agreed standards, directives, and guidelines for the electronic interchange of structured data, between independent computerized information systems [9]
openTRANS®	The openTRANS® format was developed with the aim of providing uniform electronic documents for intercompany e-commerce. Version 2.1, Fraunhofer IAO [10]
cXML Ariba	Commerce eXtensible Markup Language for transmitting data in eCommerce, Ariba Inc. [11]
SAP 4/HANA	ERP cloud solution by SAP AG, Walldorf [12]
IDTA Submodel Generic Frame for Technical Data for Industrial Equipment in Manufacturing	This Submodel template aims at interoperable provision of technical data describing the asset of the respective Asset Administration Shell [13]
IDTA Submodel Capability	Submodel to express capability definitions of a production resource, allowing to connect capability definitions and their properties from ontologies/catalogues to executable skills and their parameters [14]

So called property dictionaries are used to identify information elements (see Terms and Definitions of [6]). Such property dictionaries include:

- ECLASS, see: <https://www.eclasscontent.com/>
- IEC CDD, see: <https://cdd.iec.ch/cdd/iec61987/iec61987.nsf> and <https://cdd.iec.ch/cdd/iec62683/cdddev.nsf>

In this document, properties are aimed to be described by ECLASS.

## 2 Information set for Submodel Purchase Order Creation

For the definition of the Submodel Purchase Order Creation the following aspects considered as suggested in [5]:

### **Use and economic relevance**

Purchase orders are the basis of almost all business processes, either for ordering a product, item, raw materials or services. The purchase order process is a fundamental component of efficient and accountable business operations. It contributes to cost control, accurate record-keeping, supplier relationships, and overall financial health, making it economically relevant for businesses of all sizes and industries. Because demand for products is the starting point for purchase orders and thus the production of goods, they play a crucial role in the value chain.

There are different standard formats for digital purchase order processing, e.g. UN/EDIFACT, openTRANS, cXmIAriba or the SAP 4/HANA API. The Purchase-Submodels close the gap from those data formats to Industry 4.0 standards and support interoperability between these standards and the AAS of the items (assets) which are the subject of the purchase orders.

Additionally, by developing AAS-Submodels containing the information of purchase orders in the language of Industry 4.0, compatible with the semantic descriptions of technical data and capabilities provided by Submodels already used in this context, helps to bridge the gaps between business processes and manufacturing environment. This essentially supports automation of related processes, e.g. to carry out feasibility checks for manufacturing the requested items.

In Figure 1 an overview on the overall purchase order and fulfillment process is shown. The scope of the three Submodels Purchase Request Notification, Purchase Request Response and Purchase Order Creation is highlighted in blue, and comprised the request for quotation, the quotation and the purchase order itself. Shipment and delivery, receipt confirmation or reports on damage and loss as well as invoicing is not depicted in these Submodels. However, relevant information regarding these downstream processes which have to be defined during the order process are considered in the Submodels, like shipping parties, delivery locations, payment methods, delivery dates and restrictions or incoterms.

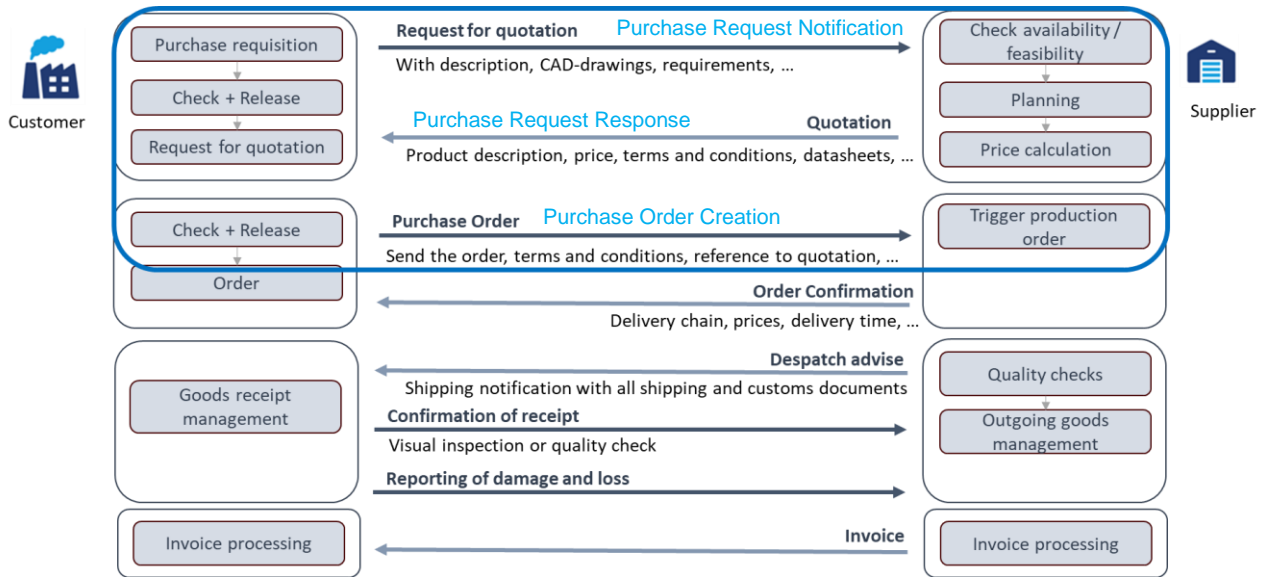


Figure 1: Overview on purchase order process and fulfillment. The scope of the three Submodels Purchase Request Notification, Purchase Request Response and Purchase Order Creation is highlighted in blue.

### Possible functions and interactions

Figure 2 shows an overview on the interaction of the three Submodels in the context of the customer (buyer) and one or more suppliers.

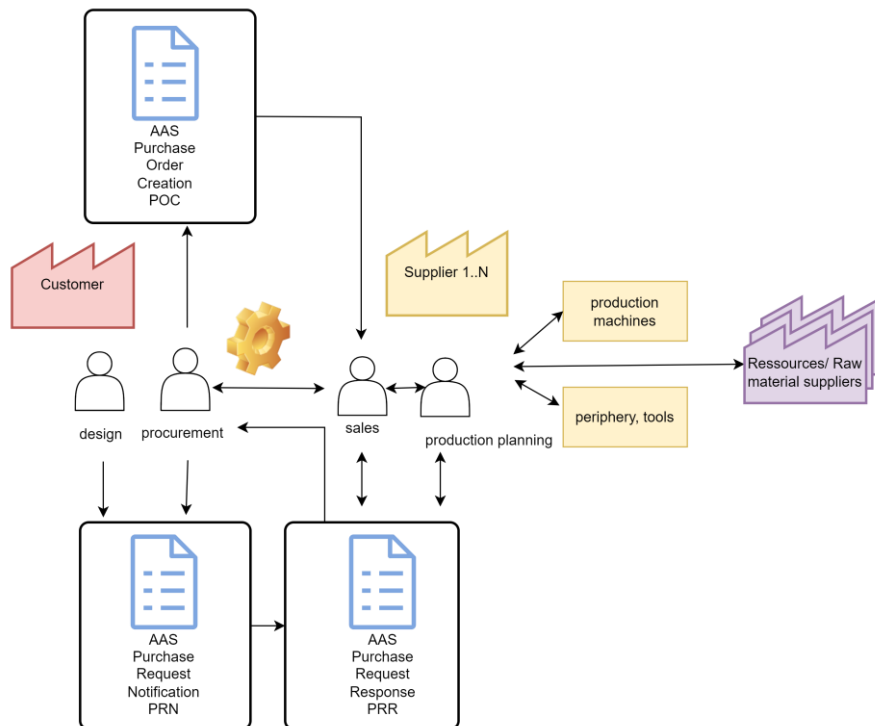


Figure 2: Overview on the interactions of the Submodel Purchase Request notification with Submodels Purchase Request Response and Purchase Order Creation.

Generally speaking a customer / buyer may send out a purchase request notification (request for quotation) to one or more suppliers, or even may place this request on a digital platform.

The supplier(s) use the information in the purchase request notification to check the availability, perform feasibility checks, regarding manufacturing equipment, material, personnel and timely resources, make price calculations and create the purchase request response (quotation). The purchase request response is sent it back or make it available to the customer / buyer. The customer checks the response, negotiate the conditions and finalizes the order by creating and sending a purchase order.

It is important to note that there might many several versions of requests, quotations, and purchases orders. Also, in quotations several requests might be combined, and/or in a purchase order several quotations might be summarized.

With respect to different situations regarding the type and availability of requested items three different scenarios are considered:

Scenario 1: Out-of-shelf products (e.g. products listed in an electronic product catalog). The request process for this scenario is described in Figure 3.

Scenario 2: Uncertainty if an existing product fits the specific requirements defined by the customer (e.g. a pump with specific performance, dimensions and flow-rate). The request process for this scenario is described in Figure 4.

Scenario 3: individual or not existing products, which have to be designed first and produced when the order is confirmed (e.g. headlights for a new car model). The request process for this scenario is described in Figure 5.

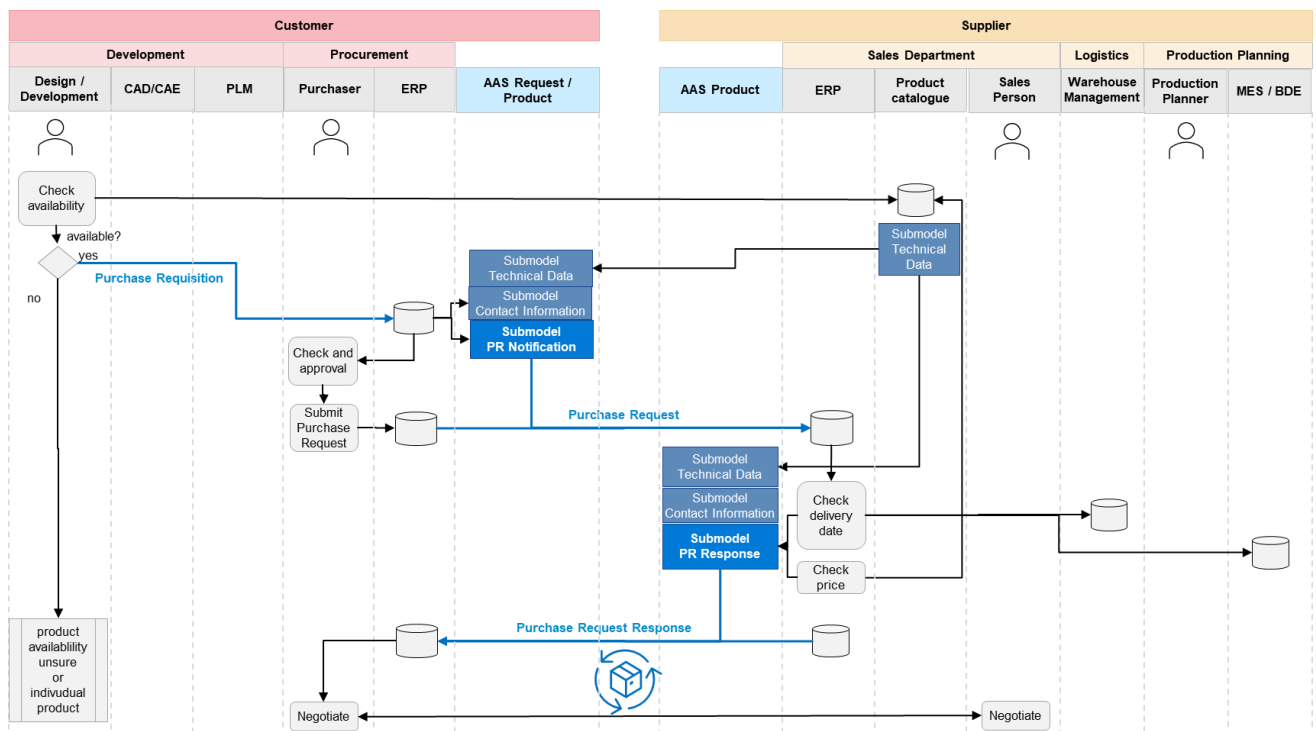


Figure 3: Process of ordering an out-of-shelf product (Scenario 1)

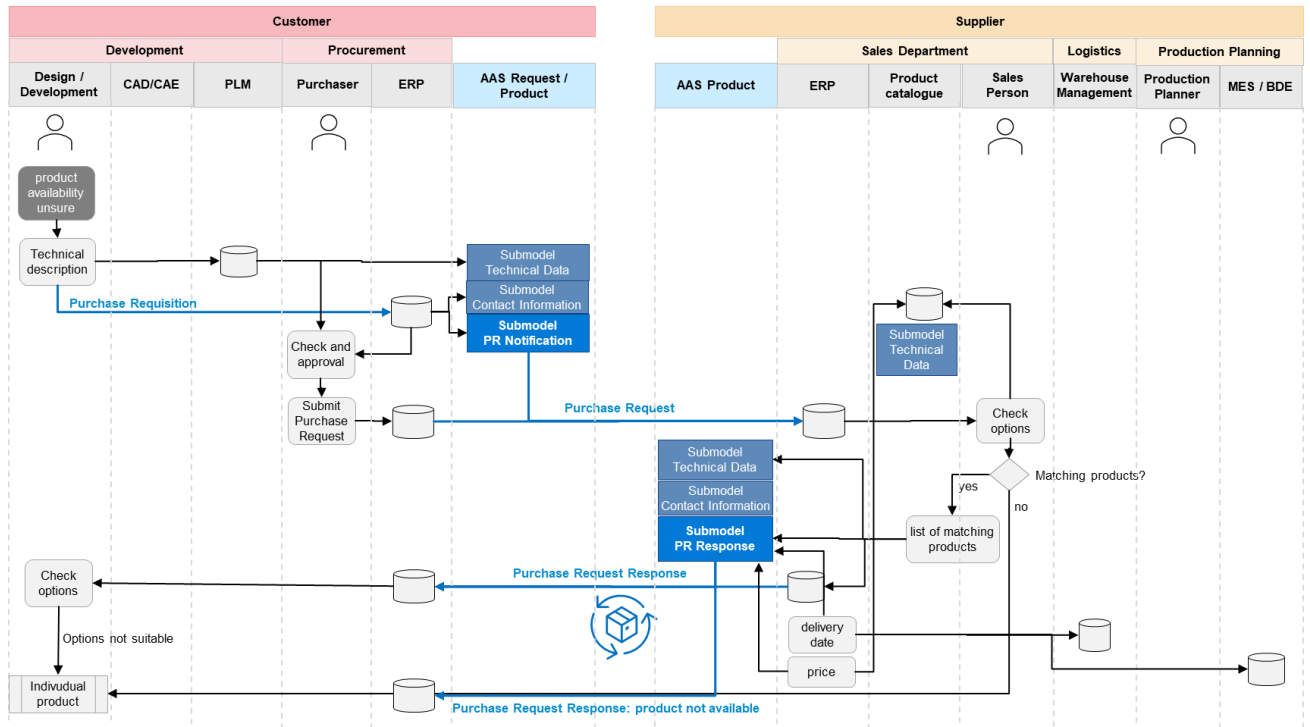


Figure 4: Purchase request process, if it is unsure whether an existing product fits the request or not. (Scenario 2)

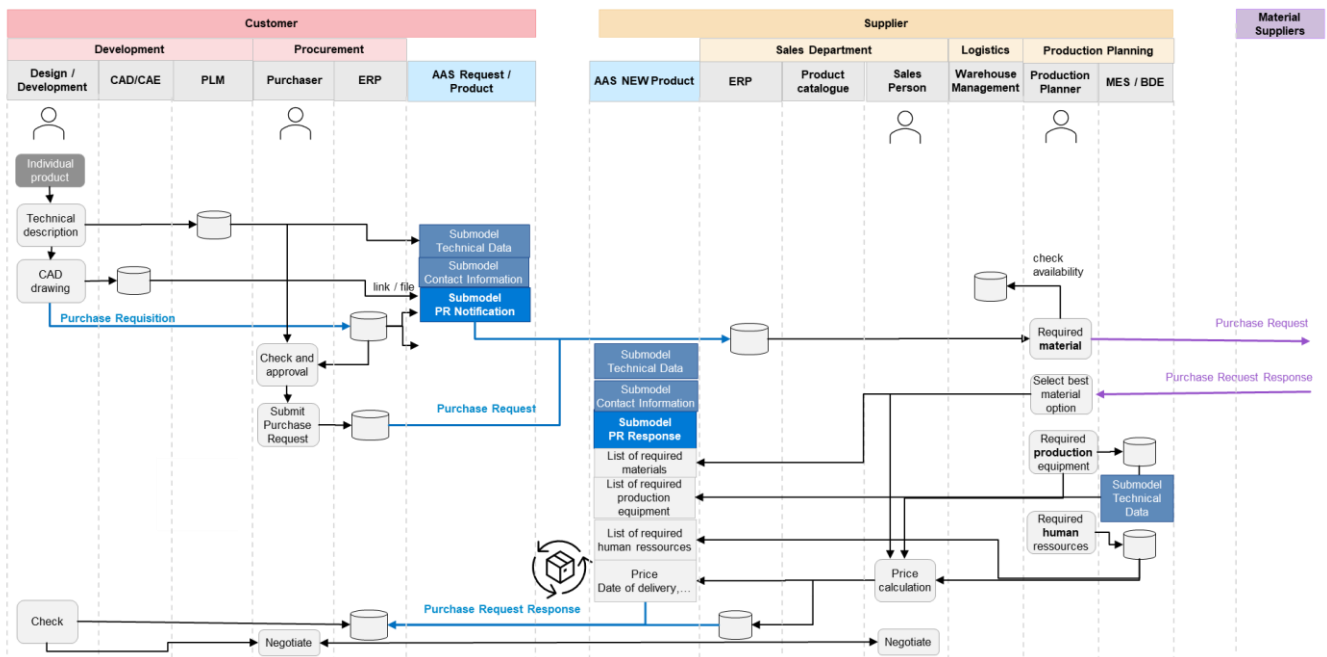


Figure 5: Purchase request process for individual / not existing products (Scenario 3)

The process of checking the purchase request response and creating the purchase order by the customer is the same for all these scenarios and described in Figure 6.

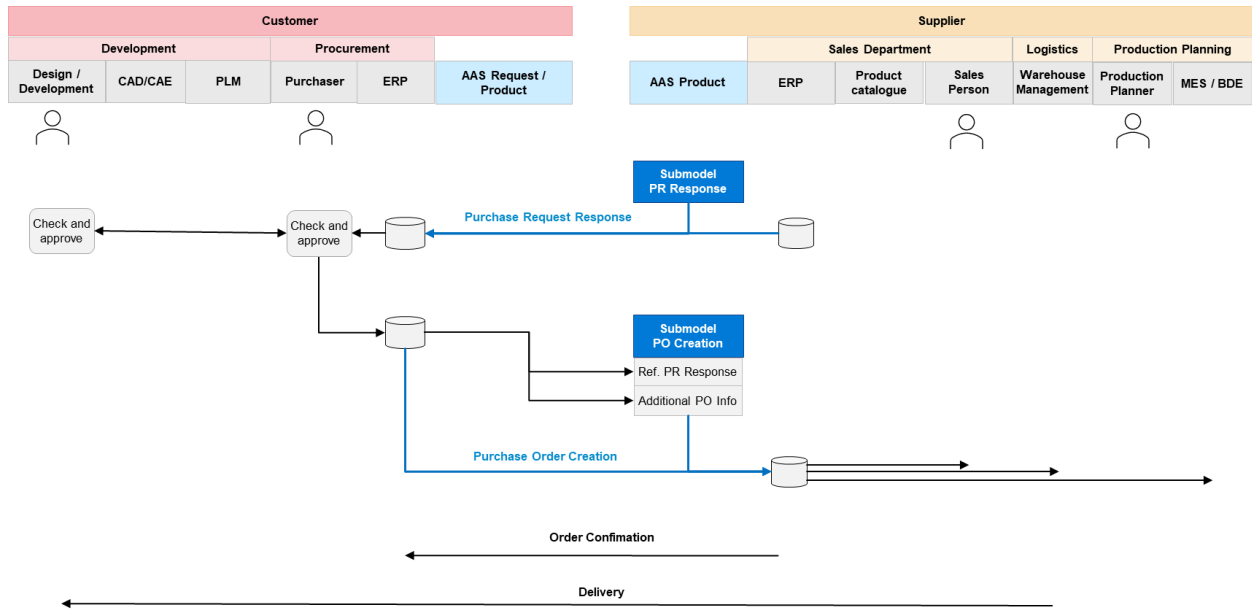


Figure 6: Process of the purchase order according based on the purchase request response (quotation)

The Submodel **Purchase Order Creation** consists of the following main Submodel Element Collections (SMC) to separate the diverse relevant information in a structured manner:

**Purchase Order Information**

The SMC PurchaseOrderInformation is the header of the purchase order containing relevant information on the request itself, like request numbers specific to buyer, seller or agent; request date and version, open and close dates, language and currency settings, terms and conditions, overall descriptions and remarks.

Delivery dates can be provided in the SMC PurchaseOrderInformation directly if they apply for the complete order and are not assigned item specific.

Following other thematic information can be referenced in the header (SMC PurchaseOrderInformation) if they apply to the whole order: catalogs, Incoterms, business parties, international restrictions, special treatment classes, attached media (e.g. files, documents). These information are thematically organized in lists of SMCs which comprise a multitude of properties regarding each of the topics. These SMC can be also referenced for each item (OrderItemList see below) separately, if necessary.

**Catalog References**

In the SMC CatalogReferenceList via SMC CatalogReference one or more references to digital product catalogs can be defined.

**Modes of Payment**

Within the List SMC ModeOfPaymentList several modes of payment can be defined, e.g. bank account, credit card, central payment regulations, etc.

**Incoterms**



The SMC IncotermsList may hold information on incoterm conditions which apply for the whole order or each item separately. Each condition is defined via SMC Incoterms and referred to in the specific item or in the header.

### ***International Restrictions***

If international restrictions apply (bans or embargos) they can be defined in the SMC InternationalRestriction as sub SMCs of SMC InternationalRestrictionList.

### ***Certifications***

Several certifications which might be required (e.g. CE, FDA, ...) can be defined in the SMC CertificationList, and SMC Certification respectively.

### ***Special Treatment Classes***

A list of necessary treatments during delivery can be defined in SMC SpecialTreatmentClasses using the property SpecialTreatmentClass

### ***Involved Parties***

Within the SMC InvolvedPartiesList all business parties involved in the order and fulfillment process can be described using the SMC Party. This SMC comprises properties for the role of the party (e.g. buyer, supplier, manufacturer, agent, carrier,...), reference ids, contact information (as a reference to IDTA Submodel ContactDetails). Because the address of the party (e.g. delivery address) might differ from the address of the contact person, the address of the party is additionally defined (SMC Address).

### ***Cost Centers***

In the SMC CostCentersList via the sub-SMC CostCenter, cost centers can be defined by the buyers, holding information on cost center code and name, reason code and name, carrier code and name, project number and name, billing center code and name.

### ***Attached Media***

If media files or documents shall be attached to the purchase order they can be listed in the SMC AttachedMediaList and its sub-SMC Media, containing the file, mime type, mime purpose and a comment, describing the file.

### ***Order Items***

The items which are subject of the purchase order are described in the SMC OrderItemList. This SMC comprises properties to provide information on ids of the item, parent items, type and classification of the item (material, wages, transport, service), stock status, order quantities, content quantity, number of content units per order unit, content quantity in content units, corresponding units, prices, agreements and terms, remarks, delivery requirements.

As mentioned above for each item specific references to catalogs, incoterms, business parties, international restrictions, special treatment classes, attached media can be provided separately.

Also, delivery dates can be provided for each item separately, if necessary, using the SMC DeliveryDateList.

Information on carbon footprint can be provided for each item in the SCM CarbonFootprint, with respect to the material used, the delivery process and the product itself.

Different definitions of a product id can be provided in the SMC ProductID, e.g. GTIN, UPC or product ids specific to supplier, buyer, agent, deliverer, manufacturer. Also the material number in an SAP ERP system might be provided here.

Additionally scan codes for the item can be defined in the SAM ScanCodeList providing the code type and code itself.

Ingredients which have are not allowed in the item, e.g. CFC, might be listed in the SMC ExcludedIngredientsList.

Besides the mentioned conditions and definitions of the item, a product name, short and long text descriptions for the item can be provided.

The description of technical properties and data (Submodel Generic Frame for Technical Data for Industrial Equipment in Manufacturing or a specific Technical Data Submodel [13]) and/or capabilities (Submodel Capability [14]) can be provided by referencing to the AAS of the item / article.

### **Property specification**

See section 3 Submodel and Collections on the following pages.

# 3 Submodel and Collections

## 3.1 Properties of the Submodel "Purchase Order Creation"

The figure below shows the UML-diagram defining the relevant properties which need to be set. Table 2 describes the details of the Submodel structure combined with examples.

The Submodel **Purchase Order Creation** describes a purchase request that leads to a request message in a standardized form.

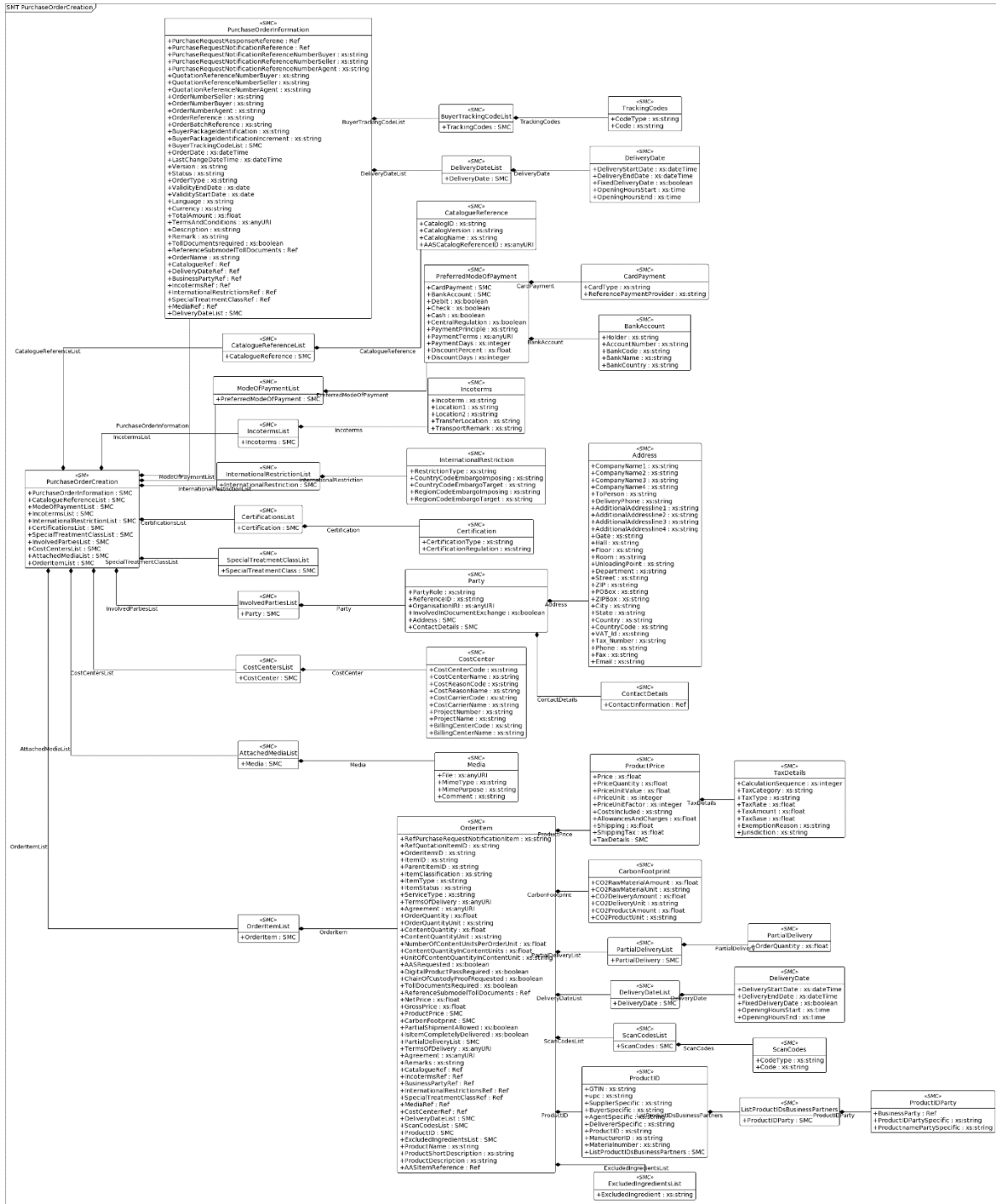


Figure 7: UML-Diagram for Submodel "Purchase Order Creation"

Table 2: Properties of Submodel "Purchase Order Creation "

<b>idShort:</b>	PurchaseOrderCreation		
<b>Class:</b>	Submodel		
<b>semanticId:</b>	[IRI] <a href="https://example.com/ids/sm/7249-5809-0138-3107">https://example.com/ids/sm/7249-5809-0138-3107</a>		
<b>isCaseOf</b>	-		
<b>AllowDuplicates</b>	-		
<b>Parent</b>	PurchaseOrderCreation		
<b>Explanation</b>	Using the Submodel PurchaseOrderCreation, a buyer can create a standardized purchase order for a quotation from a supplier using the Asset Administration Shell. @en  Über das Teilmodell PurchaseOrderCreation kann durch einen Käufer ein standardisierter Bestellauftrag zu einem Angebot eines Lieferanten mittels der Verwaltungsschale erstellt werden. @de		
<b>[SME type]</b>	<b>semanticId = [idType]value</b>	<b>[valueType]</b>	<b>card.</b>
<b>idShort</b>	<b>Description@en</b>	<b>example</b>	
[SMC] PurchaseOrderInformation	[IRI] <a href="https://example.com/ids/cd/4484-8367-8196-9504">https://example.com/ids/cd/4484-8367-8196-9504</a> preferredName @en: Order information preferredName @de: Bestellinformationen  definition @en: General information about the purchase order definition @de: Allgemeine Informationen zur Bestellung  description @en: General information about the purchase order description @de: Allgemeine Informationen zur Bestellung	[-] 38 elements	1
[SMC] CatalogueReferenceList	[IRI] <a href="https://example.com/ids/cd/4417-7676-8216-3479">https://example.com/ids/cd/4417-7676-8216-3479</a> preferredName @en: Catalogue reference list preferredName @de: Katalog Referenz Liste  definition @en: List of catalogs to be referenced in the business document. The referencing can be done in the general part or for each item separately. definition @de: Liste von Katalogen auf die im Geschäftsdokument referenziert werden sollen. Die Referenzierung kann im allgemeinen Teil oder für jedes Item separat erfolgen.  description @en: List of catalogs to be referenced in the business document. The referencing can be done in the general part or for each item separately. description @de: Liste von Katalogen auf die im Geschäftsdokument referenziert werden sollen. Die Referenzierung kann im allgemeinen Teil oder für jedes Item separat erfolgen.	[-] 1 elements	0..1
[SMC] ModeOfPaymentList	[IRI] <a href="https://example.com/ids/cd/4000-1770-4266-7971">https://example.com/ids/cd/4000-1770-4266-7971</a> preferredName @en: Mode of payment list preferredName @de: Bezahlmethodenliste  definition @en: List of payment options to be referenced in the business document. The referencing can be done in the general part or for each item separately. definition @de: Liste von Bezahlmöglichkeiten auf die im Geschäftsdokument referenziert werden sollen. Die Referenzierung	[-] 1 elements	0..1

	<p>kann im allgemeinen Teil oder für jedes Item separat erfolgen.</p> <p>description @en: List of payment options to be referenced in the business document. The referencing can be done in the general part or for each item separately.</p> <p>description @de: Liste von Bezahlungsmöglichkeiten auf die im Geschäftsdokument referenziert werden sollen. Die Referenzierung kann im allgemeinen Teil oder für jedes Item separat erfolgen.</p>		
[SMC] IncotermsList	<p>[IRI] <a href="https://example.com/ids/cd/1293-2488-2965-6530">https://example.com/ids/cd/1293-2488-2965-6530</a></p> <p>preferredName @en: IncotermsList</p> <p>preferredName @de: Incoterms Liste</p> <p>definition @en: List of incoterms conditions to be referenced in the business document. The referencing can be done in the general part or for each item separately.</p> <p>definition @de: Liste von Incotermsbedingungen auf die im Geschäftsdokument referenziert werden sollen. Die Referenzierung kann im allgemeinen Teil oder für jedes Item separat erfolgen.</p> <p>description @en: List of incoterms conditions to be referenced in the business document. The referencing can be done in the general part or for each item separately.</p> <p>description @de: Liste von Incotermsbedingungen auf die im Geschäftsdokument referenziert werden sollen. Die Referenzierung kann im allgemeinen Teil oder für jedes Item separat erfolgen.</p>	[-] 1 elements	0..1
[SMC] InternationalRestrictionList	<p>[IRI] <a href="https://example.com/ids/cd/6435-6143-7395-8504">https://example.com/ids/cd/6435-6143-7395-8504</a></p> <p>preferredName @en: International restrictions list</p> <p>preferredName @de: Internationale Restriktionen Liste</p> <p>definition @en: List of international restrictions to be referenced in the business document. The referencing can be done in the general part or for each item separately.</p> <p>definition @de: Liste von internationalen Restriktionen auf die im Geschäftsdokument referenziert werden sollen. Die Referenzierung kann im allgemeinen Teil oder für jedes Item separat erfolgen.</p> <p>description @en: List of international restrictions to be referenced in the business document. The referencing can be done in the general part or for each item separately.</p> <p>description @de: Liste von internationalen Restriktionen auf die im Geschäftsdokument referenziert werden sollen. Die Referenzierung kann im allgemeinen Teil oder für jedes Item separat erfolgen.</p>	[-] 1 elements	0..*
[SMC] CertificationsList	<p>[IRI] <a href="https://example.com/ids/cd/1904-3261-2120-0020">https://example.com/ids/cd/1904-3261-2120-0020</a></p> <p>preferredName @en: Certification List</p> <p>preferredName @de: Zertifizierungsliste</p> <p>definition @en: Liste von Information on necessary certifications or approval regulations The referencing can be done in the general part or for each item separately.</p> <p>definition @de: Liste von Informationen zu notwendigen Zertifizierungen oder Zulassungsvorschriften. Die Referenzierung kann im allgemeinen Teil oder für jedes Item separat erfolgen.</p> <p>description @en: Liste von Information on necessary certifications or approval regulations The referencing can be done in the general part or for each item separately.</p> <p>description @de: Liste von Informationen zu notwendigen</p>	[-] 1 elements	0..1

	Zertifizierungen oder Zulassungsvorschriften. Die Referenzierung kann im allgemeinen Teil oder für jedes Item separat erfolgen.		
[SMC] SpecialTreatmentClassList	[IRI] <a href="https://example.com/ids/cd/5998-1917-5001-0928">https://example.com/ids/cd/5998-1917-5001-0928</a> preferredName @en: Special treatment class list preferredName @de: Warenbehandlungsklassenliste  definition @en: List of special treatment classes to be referenced in the business document. The referencing can be done in the general part or for each item separately. definition @de: Liste von Sonderbehandlungsklassen auf die im Geschäftsdokument referenziert werden sollen. Die Referenzierung kann im allgemeinen Teil oder für jedes Item separat erfolgen.  description @en: List of special treatment classes to be referenced in the business document. The referencing can be done in the general part or for each item separately. description @de: Liste von Sonderbehandlungsklassen auf die im Geschäftsdokument referenziert werden sollen. Die Referenzierung kann im allgemeinen Teil oder für jedes Item separat erfolgen.	[-] 1 elements	0..1
[SMC] InvolvedPartiesList	[IRI] <a href="https://example.com/ids/cd/3208-2275-3712-5361">https://example.com/ids/cd/3208-2275-3712-5361</a> preferredName @en: Involved parties list preferredName @de: Beteiligte Parteienliste  definition @en: List of involved business parties to be referenced in the business document. The referencing can be done in the general part or for each item separately. definition @de: Liste beteiligter Geschäftsparteien auf die im Geschäftsdokument referenziert werden sollen. Die Referenzierung kann im allgemeinen Teil oder für jedes Item separat erfolgen.  description @en: List of involved business parties to be referenced in the business document. The referencing can be done in the general part or for each item separately. description @de: Liste beteiligter Geschäftsparteien auf die im Geschäftsdokument referenziert werden sollen. Die Referenzierung kann im allgemeinen Teil oder für jedes Item separat erfolgen.	[-] 1 elements	1
[SMC] CostCentersList	[IRI] <a href="https://example.com/ids/cd/6671-3011-2433-1935">https://example.com/ids/cd/6671-3011-2433-1935</a> preferredName @en: Cost centers list preferredName @de: Kostenstellenliste  definition @en: List of cost centers to be referenced in the business document. The referencing can be done in the general part or for each item separately. definition @de: Liste von Kostenstellen auf die im Geschäftsdokument referenziert werden sollen. Die Referenzierung kann im allgemeinen Teil oder für jedes Item separat erfolgen.  description @en: List of cost centers to be referenced in the business document. The referencing can be done in the general part or for each item separately. description @de: Liste von Kostenstellen auf die im Geschäftsdokument referenziert werden sollen. Die Referenzierung kann im allgemeinen Teil oder für jedes Item separat erfolgen.	[-] 1 elements	0..1
[SMC] AttachedMediaList	[IRI] <a href="https://example.com/ids/cd/2839-4873-8128-5745">https://example.com/ids/cd/2839-4873-8128-5745</a> preferredName @en: Attached media list preferredName @de: Liste angefügter Medien	[-] 1 elements	0..1

	<p>definition @en: Media attached to the business document, e.g. component sketch, CAD data, to be referenced in the business document. The referencing can be done in the general part or for each item separately.</p> <p>definition @de: Dem Geschäftsdokument angefügte Medien, z.B. Bauteilskizze, CAD-Daten, auf die im Geschäftsdokument referenziert werden sollen. Die Referenzierung kann im allgemeinen Teil oder für jedes Item separat erfolgen.</p> <p>description @en: Media attached to the business document, e.g. component sketch, CAD data, to be referenced in the business document. The referencing can be done in the general part or for each item separately.</p> <p>description @de: Dem Geschäftsdokument angefügte Medien, z.B. Bauteilskizze, CAD-Daten, auf die im Geschäftsdokument referenziert werden sollen. Die Referenzierung kann im allgemeinen Teil oder für jedes Item separat erfolgen.</p>		
[SMC] OrderItemList	<p>[IRI] <a href="https://example.com/ids/cd/9272-7067-8281-3590">https://example.com/ids/cd/9272-7067-8281-3590</a></p> <p>preferredName @en: Order item list</p> <p>preferredName @de: Liste der Elemente der Bestellung</p> <p>definition @en: Bill of material of order</p> <p>definition @de: Stückliste zur Bestellung</p> <p>description @en: Bill of material of order</p> <p>description @de: Stückliste zur Bestellung</p>	[-] 1 elements	1

### 3.2 Properties of the SMC “PurchaseOrderInformation”

Table 3: Properties of SMC “PurchaseOrderInformation”

<b>idShort:</b>	PurchaseOrderInformation		
<b>Class:</b>	SubmodelElementCollection		
<b>semanticId:</b>	[IRI] <a href="https://example.com/ids/cd/4484-8367-8196-9504">https://example.com/ids/cd/4484-8367-8196-9504</a>		
<b>isCaseOf</b>	-		
<b>AllowDuplicates</b>	-		
<b>Parent</b>	PurchaseOrderInformation		
<b>Explanation</b>	General information about the purchase order@en,Allgemeine Informationen zur Bestellung@de		
<b>[SME type]</b>	<b>semanticId = [idType]value</b>	<b>[valueType]</b>	<b>card.</b>
<b>idShort</b>	<b>Description@en</b>	<b>example</b>	
[Ref] PurchaseRequestResponseReferene	<p>[IRI] <a href="https://example.com/ids/cd/8806-1553-2395-7400">https://example.com/ids/cd/8806-1553-2395-7400</a></p> <p>preferredName @en: Purchase request response reference</p>	[-]	0..*

	<p>preferredName @de: Angebots Referenz</p> <p>definition @en: Reference to the AAS of the offer, can be several if the order combines several offers definition @de: Referenz zur AAS des Angebots, können mehrere sein, wenn die Bestellung mehrere Angebote zusammenfasst</p> <p>description @en: Reference to the AAS of the offer, can be several if the order combines several offers description @de: Referenz zur AAS des Angebots, können mehrere sein, wenn die Bestellung mehrere Angebote zusammenfasst</p>		
<p>[Ref] PurchaseRequestNotificationReference</p>	<p>[IRI] <a href="https://example.com/ids/cd/0519-9049-7942-0970">https://example.com/ids/cd/0519-9049-7942-0970</a> preferredName @en: Purchase request notification reference preferredName @de: Angebotsanfrage Referenz</p> <p>definition @en: Reference to the AAS of the order request, can be several if the offer combines different requests definition @de: Referenz zur AAS der Bestellanfrage, können mehrere sein, wenn das Angebot unterschiedliche Anfragen zusammenfasst</p> <p>description @en: Reference to the AAS of the order request, can be several if the offer combines different requests description @de: Referenz zur AAS der Bestellanfrage, können mehrere sein, wenn das Angebot unterschiedliche Anfragen zusammenfasst</p>	[-]	0..*
<p>[Prop] PurchaseRequestNotificationReferenceNumberBuyer</p>	<p>[IRI] <a href="https://example.com/ids/cd/5124-4971-1540-2760">https://example.com/ids/cd/5124-4971-1540-2760</a> preferredName @en: Order request number buyer preferredName @de: Bestellanfragenummer Käufer</p> <p>definition @en: Purchase request number of the buyer definition @de: Bestellanfragenummer seitens des Käufers</p> <p>description @en: Purchase request number of the buyer description @de: Bestellanfragenummer seitens des Käufers</p>	[String]	0..*



<p>[Prop] PurchaseRequestNotificationReferenceNumberSeller</p>	<p>[IRI] <a href="https://example.com/ids/cd/9883-3024-7749-9477">https://example.com/ids/cd/9883-3024-7749-9477</a>  preferredName @en: Order request number seller  preferredName @de: Bestellanfragenummer Verkäufer    definition @en: Purchase request number of the seller  definition @de: Bestellanfragenummer seitens des Verkäufers    description @en: Purchase request number of the seller  description @de: Bestellanfragenummer seitens des Verkäufers</p>	<p>[String]</p>	<p>0..*</p>
<p>[Prop] PurchaseRequestNotificationReferenceNumberAgent</p>	<p>[IRI] <a href="https://example.com/ids/cd/6294-3468-2782-5722">https://example.com/ids/cd/6294-3468-2782-5722</a>  preferredName @en: Order request number agent  preferredName @de: Bestellanfragenummer Agent    definition @en: Purchase request number of an agent involved  definition @de: Bestellanfragenummer seitens eines involvierten Agenten    description @en: Purchase request number of an agent involved  description @de: Bestellanfragenummer seitens eines involvierten Agenten</p>	<p>[String]</p>	<p>0..*</p>
<p>[Prop] QuotationReferenceNumberBuyer</p>	<p>[IRI] <a href="https://example.com/ids/cd/0709-5432-1701-8815">https://example.com/ids/cd/0709-5432-1701-8815</a>  preferredName @en: Quotation number buyer  preferredName @de: Angebotsnummer Käufer    definition @en: Offer number assigned by the buyer  definition @de: Vom Käufer vergebene Angebotsnummer    description @en: Offer number assigned by the buyer  description @de: Vom Käufer vergebene Angebotsnummer</p>	<p>[String]</p>	<p>0..1</p>
<p>[Prop] QuotationReferenceNumberSeller</p>	<p>[IRI] <a href="https://example.com/ids/cd/3700-0123-4839-8042">https://example.com/ids/cd/3700-0123-4839-8042</a>  preferredName @en: Quotation number seller  preferredName @de: Angebotsnummer Verkäufer    definition @en: Offer number assigned by the seller</p>	<p>[String]</p>	<p>0..1</p>

	<p>definition @de: Vom Verkäufer vergebene Angebotsnummer</p> <p>description @en: Offer number assigned by the seller</p> <p>description @de: Vom Verkäufer vergebene Angebotsnummer</p>		
[Prop] QuotationReferenceNumberAgent	<p>[IRI] https://example.com/ids/cd/5139-9801-3068-0145</p> <p>preferredName @en: Quotation number agent</p> <p>preferredName @de: Angebotsnummer Agent</p> <p>definition @en: Offer number assigned by the agent</p> <p>definition @de: Vom Agenten vergebene Angebotsnummer</p> <p>description @en: Offer number assigned by the agent</p> <p>description @de: Vom Agenten vergebene Angebotsnummer</p>	[String]	0..1
[Prop] OrderNumberSeller	<p>[IRI] https://example.com/ids/cd/0429-3077-8038-0582</p> <p>preferredName @en: Order number</p> <p>preferredName @de: Auftragsnummer</p> <p>definition @en: Order number assigned by the buyer</p> <p>definition @de: Vom Käufer vergebene Auftragsnummer</p> <p>description @en: Order number assigned by the buyer</p> <p>description @de: Vom Käufer vergebene Auftragsnummer</p>	[String]	0..1
[Prop] OrderNumberBuyer	<p>[IRI] https://example.com/ids/cd/2192-6938-8957-6688</p> <p>preferredName @en: Buyer's order number</p> <p>preferredName @de: Auftragsnummer Käufer</p> <p>definition @en: Order number assigned by the seller</p> <p>definition @de: Vom Verkäufer vergebene Auftragsnummer</p> <p>description @en: Order number assigned by the seller</p> <p>description @de: Vom Verkäufer vergebene Auftragsnummer</p>	[String]	1
[Prop] OrderNumberAgent	<p>[IRI] https://example.com/ids/cd/5055-7219-2955-3012</p> <p>preferredName @en: Agent's order</p>	[String]	0..1

	<p>number preferredName @de: Auftragsnummer Agent</p> <p>definition @en: Order number assigned by the agent definition @de: Vom Agenten vergebene Auftragsnummer</p> <p>description @en: Order number assigned by the agent description @de: Vom Agenten vergebene Auftragsnummer</p>		
[Prop] OrderReference	<p>[IRI] <a href="https://example.com/ids/cd/8256-1364-1872-3443">https://example.com/ids/cd/8256-1364-1872-3443</a> preferredName @en: Order reference preferredName @de: Bestellreferenz</p> <p>definition @en: Order reference definition @de: Bestellreferenz</p> <p>description @en: Order reference description @de: Bestellreferenz</p>	[String]	0..1
[Prop] OrderBatchReference	<p>[IRI] <a href="https://example.com/ids/cd/5450-5871-7876-0108">https://example.com/ids/cd/5450-5871-7876-0108</a> preferredName @en: Order batch reference preferredName @de: Bestellbatchreferenz</p> <p>definition @en: Order batch reference definition @de: Bestellbatchreferenz</p> <p>description @en: Order batch reference description @de: Bestellbatchreferenz</p>	[String]	0..1
[Prop] BuyerPackageIdentification	<p>[IRI] <a href="https://example.com/ids/cd/9055-0509-9402-6800">https://example.com/ids/cd/9055-0509-9402-6800</a> preferredName @en: Package identification preferredName @de: Geforderte Lieferscheinnummer</p> <p>definition @en: Package identification required by buyer definition @de: Vom Käufer geforderte Lieferscheinnummer</p> <p>description @en: Package identification required by buyer description @de: Vom Käufer geforderte Lieferscheinnummer</p>	[String]	0..1
[Prop] BuyerPackageIdentificationIncrement	<p>[IRI] <a href="https://example.com/ids/cd/8033-4244-6508-2447">https://example.com/ids/cd/8033-4244-6508-2447</a> preferredName @en: Required delivery note increment preferredName @de: Gefordertes</p>	[String]	0..1

	<p>Lieferscheinnummer Inkrement</p> <p>definition @en: Delivery note number increment required by the buyer, e.g. two additional digits definition @de: Vom Käufer gefordertes Lieferscheinnummerinkrement, z.B. zwei Stellen zusätzlich</p> <p>description @en: Delivery note number increment required by the buyer, e.g. two additional digits description @de: Vom Käufer gefordertes Lieferscheinnummerinkrement, z.B. zwei Stellen zusätzlich</p>		
<p>[SMC] BuyerTrackingCodeList</p>	<p>[IRI] <a href="https://example.com/ids/cd/7715-7143-9962-2140">https://example.com/ids/cd/7715-7143-9962-2140</a> preferredName @en: Tracking code list of buyer preferredName @de: Trackingcodeliste Käufer</p> <p>definition @en: List of scan codes, e.g. barcodes definition @de: Liste von Scan Codes, z.B. Barcodes</p> <p>description @en: List of scan codes, e.g. barcodes description @de: Liste von Scan Codes, z.B. Barcodes</p>	<p>[-] 1 elements</p>	<p>0..1</p>
<p>[Prop] OrderDate</p>	<p>[IRI] <a href="https://example.com/ids/cd/8171-4717-5893-8540">https://example.com/ids/cd/8171-4717-5893-8540</a> preferredName @en: Order date preferredName @de: Datum der Bestellung</p> <p>definition @en: Order date definition @de: Datum der Bestellung</p> <p>description @en: Order date description @de: Datum der Bestellung</p>	<p>[DateTime]</p>	<p>1</p>
<p>[Prop] LastChangeDateTime</p>	<p>[IRI] <a href="https://example.com/ids/cd/2369-1987-9751-5504">https://example.com/ids/cd/2369-1987-9751-5504</a> preferredName @en: Date and time of last change preferredName @de: Zeitpunkt der letzten Änderung</p> <p>definition @en: Date and time of last change definition @de: Zeitpunkt der letzten Änderung</p> <p>description @en: Date and time of last change</p>	<p>[DateTime]</p>	<p>0..1</p>

	description @de: Zeitpunkt der letzten Änderung		
[Prop] Version	[IRI] <a href="https://example.com/ids/cd/6402-3848-3050-6742">https://example.com/ids/cd/6402-3848-3050-6742</a> preferredName @en: Order request version preferredName @de: Bestellanfrageversion  definition @en: Purchase order request version definition @de: Version der Bestellanfrage  description @en: Purchase order request version description @de: Version der Bestellanfrage	[String]	1
[Prop] Status	[IRI] <a href="https://example.com/ids/cd/2593-7661-9658-9505">https://example.com/ids/cd/2593-7661-9658-9505</a> preferredName @en: Status of the quotation preferredName @de: Status des Angebots  definition @en: The status of the order. Possible values: accept, reject, update, final definition @de: Der Status der Bestellung. Mögliche Werte: accept, reject, update, final  description @en: The status of the order. Possible values: accept, reject, update, final description @de: Der Status der Bestellung. Mögliche Werte: accept, reject, update, final	[String]	0..1
[Prop] OrderType	[IRI] <a href="https://example.com/ids/cd/1755-8605-5262-3495">https://example.com/ids/cd/1755-8605-5262-3495</a> preferredName @en: Ortde type preferredName @de: Typ Bestellung  definition @en: Type of order. Possible values: regular, release, blanket, stockTransport, stockTransportRelease definition @de: Typ der Bestellung. Mögliche Werte: regular, release, blanket, stockTransport, stockTransportRelease  description @en: Type of order. Possible values: regular, release, blanket, stockTransport, stockTransportRelease description @de: Typ der Bestellung. Mögliche Werte: regular, release,	[String]	1

	blanket, stockTransport, stockTransportRelease		
[Prop] ValidityEndDate	[IRI] https://example.com/ids/cd/9030-2930-7019-1479 preferredName @en: Quotation validity end date preferredName @de: Enddatum der Angebotsgültigkeit  definition @en: End date of validity of the quotation definition @de: Enddatum der Gültigkeit des Anbebots  description @en: End date of validity of the quotation description @de: Enddatum der Gültigkeit des Anbebots	[Date]	0..1
[Prop] ValidityStartDate	[IRI] https://example.com/ids/cd/9292-8812-2816-9012 preferredName @en: Quotation validity start date preferredName @de: Startdatum der Angebotsgültigkeit  definition @en: Start date of validity of the quotation definition @de: Startdatum der Gültigkeit des Anbebots  description @en: Start date of validity of the quotation description @de: Startdatum der Gültigkeit des Anbebots	[Date]	0..1
[Prop] Language	[IRI] https://example.com/ids/cd/9956-0758-5657-5272 preferredName @en: Language preferredName @de: Sprache  definition @en: Specification of used language: the default language of all language-dependent information definition @de: Angabe der verwendeten Sprache: Die Standardsprache aller sprachabhängigen Informationen  description @en: Specification of used language: the default language of all language-dependent information description @de: Angabe der verwendeten Sprache: Die Standardsprache aller sprachabhängigen Informationen	[String]	1
[Prop] Currency	[IRI] https://example.com/ids/cd/2730-7160-8669-0263 preferredName @en: Currency	[String]	1

	<p>preferredName @de: Wahrung</p> <p>definition @en: The currency used. Must be a three-letter ISO currency code. definition @de: Die verwendete Wahrung. Muss aus drei Buchstaben des ISO-Wahrungscodes bestehen.</p> <p>description @en: The currency used. Must be a three-letter ISO currency code. description @de: Die verwendete Wahrung. Muss aus drei Buchstaben des ISO-Wahrungscodes bestehen.</p>		
[Prop] TotalAmount	<p>[IRI] <a href="https://example.com/ids/cd/0423-1534-0304-1058">https://example.com/ids/cd/0423-1534-0304-1058</a></p> <p>preferredName @en: Quotation total amount preferredName @de: Angebotsgesamtbetrag</p> <p>definition @en: Total price amount of the quotation definition @de: Vollstandiger Preis-Betrag des Angebots</p> <p>description @en: Total price amount of the quotation description @de: Vollstandiger Preis-Betrag des Angebots</p>	[Float]	0..1
[Prop] TermsAndConditions	<p>[IRI] <a href="https://example.com/ids/cd/0483-6321-4445-1877">https://example.com/ids/cd/0483-6321-4445-1877</a></p> <p>preferredName @en: Terms and Conditions preferredName @de: Geschaftsbedingungen</p> <p>definition @en: General terms and conditions definition @de: Allgemeine Geschaftsbedingungen</p> <p>description @en: General terms and conditions description @de: Allgemeine Geschaftsbedingungen</p>	[AnyUri]	0..1
[Prop] Description	<p>[IRI] <a href="https://example.com/ids/cd/7505-1665-0538-3228">https://example.com/ids/cd/7505-1665-0538-3228</a></p> <p>preferredName @en: Description preferredName @de: Beschreibung</p> <p>definition @en: Description of the purchase request notification, quotation or created order definition @de: Beschreibung der Kaufanfrage, des Angebots oder der</p>	[String]	0..1

	<p>erstellten Bestellung</p> <p>description @en: Description of the purchase request notification, quotation or created order description @de: Beschreibung der Kaufanfrage, des Angebots oder der erstellten Bestellung</p>		
[Prop] Remark	<p>[IRI] <a href="https://example.com/ids/cd/6517-9002-5389-5129">https://example.com/ids/cd/6517-9002-5389-5129</a> preferredName @en: Remark preferredName @de: Anmerkung</p> <p>definition @en: Remark related to a business document definition @de: Bemerkung zu einem Geschäftsdokument</p> <p>description @en: Remark related to a business document description @de: Bemerkung zu einem Geschäftsdokument</p>	[String]	0..*
[Prop] OrderName	<p>[IRI] <a href="https://example.com/ids/cd/9608-2685-0243-4603">https://example.com/ids/cd/9608-2685-0243-4603</a> preferredName @en: Order name preferredName @de: Bestellungenbezeichnung</p> <p>definition @en: Name of the order definition @de: Bezeichnung der Bestellung</p> <p>description @en: Name of the order description @de: Bezeichnung der Bestellung</p>	[String]	0..1
[Prop] TollDocumentsRequired	<p>[IRI] <a href="https://example.com/ids/cd/1315-5485-4508-5182">https://example.com/ids/cd/1315-5485-4508-5182</a> preferredName @en: Toll documents required preferredName @de: Zolldokumente erforderlich</p> <p>definition @en: Boolean value, indicating whether toll documents are required definition @de: Boolescher Wert der angibt, ob Zolldokumente erforderlich ist</p> <p>description @en: Boolean value, indicating whether toll documents are required description @de: Boolescher Wert der angibt, ob Zolldokumente erforderlich ist</p>	[Boolean]	0..1
[Ref] ReferenceSubmodelTollDocuments	<p>[IRI] <a href="https://example.com/ids/cd/9901-9710-8091-5659">https://example.com/ids/cd/9901-9710-8091-5659</a> preferredName @en: Reference to submodell toll document</p>	[-]	0..N



	<p>preferredName @de: Referenz auf Teilmodell Zolldokument</p> <p>definition @en: Reference to submodel which describes a toll document definition @de: Referenz auf ein Teilmodell, das ein Zolldokument beschreibt</p> <p>description @en: Reference to submodel which describes a toll document description @de: Referenz auf ein Teilmodell, das ein Zolldokument beschreibt</p>		
[Ref] CatalogueRef	<p>[IRI] <a href="https://example.com/ids/cd/4329-3726-6986-8615">https://example.com/ids/cd/4329-3726-6986-8615</a> preferredName @en: Catalogue reference preferredName @de: Referenz auf Katalog</p> <p>definition @en: Reference to a catalog entry defined in the SMC CatalogReferenceList definition @de: Referenz auf einen Katalogeintrag, der in der SMC CatalogReferenceList definiert ist. Kann im allgemeinen Teil oder im Item referenziert werden.</p> <p>description @en: Reference to a catalog entry defined in the SMC CatalogReferenceList description @de: Referenz auf einen Katalogeintrag, der in der SMC CatalogReferenceList definiert ist. Kann im allgemeinen Teil oder im Item referenziert werden.</p>	[-]	0..1
[Ref] DeliveryDateRef	<p>[IRI] <a href="https://example.com/ids/cd/2138-6217-0177-2501">https://example.com/ids/cd/2138-6217-0177-2501</a> preferredName @en: Delivery date reference preferredName @de: Referenz auf Lieferdatum</p> <p>definition @en: Reference to a delivery period definition @de: Referenz auf einen Lieferzeitraum</p> <p>description @en: Reference to a delivery period description @de: Referenz auf einen Lieferzeitraum</p>	[-]	0..1
[Ref] BusinessPartyRef	<p>[IRI] <a href="https://example.com/ids/cd/9041-5445-4967-4221">https://example.com/ids/cd/9041-5445-4967-4221</a> preferredName @en: Shipment parties</p>	[-]	0..*

	<p>reference preferredName @de: Referenz auf Sendungsparteien</p> <p>definition @en: Reference to a business party, e.g. shipment company defined in the SMC PartiesList. Can be referenced in the general part or in the item. Can be referenced in the general part or in the item.</p> <p>definition @de: Referenz auf eine Geschäftspartei, z.B. Lieferunternehmen, die in der SMC PartiesList definiert ist. Kann im allgemeinen Teil oder im Item referenziert werden.</p> <p>description @en: Reference to a business party, e.g. shipment company defined in the SMC PartiesList. Can be referenced in the general part or in the item. Can be referenced in the general part or in the item.</p> <p>description @de: Referenz auf eine Geschäftspartei, z.B. Lieferunternehmen, die in der SMC PartiesList definiert ist. Kann im allgemeinen Teil oder im Item referenziert werden.</p>		
[Ref] IncotermsRef	<p>[IRI] <a href="https://example.com/ids/cd/7163-0541-5942-4277">https://example.com/ids/cd/7163-0541-5942-4277</a></p> <p>preferredName @en: Incoterms reference</p> <p>preferredName @de: Referenz auf Incoterms</p> <p>definition @en: Reference to Incoterms provisions defined in the SMC IncotermsList. Can be referenced in the general part or in the item.</p> <p>definition @de: Referenz auf Incotermsbestimmungen, die in der SMC IncotermsList definiert sind. Kann im allgemeinen Teil oder im Item referenziert werden.</p> <p>description @en: Reference to Incoterms provisions defined in the SMC IncotermsList. Can be referenced in the general part or in the item.</p> <p>description @de: Referenz auf Incotermsbestimmungen, die in der SMC IncotermsList definiert sind. Kann im allgemeinen Teil oder im Item referenziert werden.</p>	[-]	0..1
[Ref] InternationalRestrictionsRef	<p>[IRI] <a href="https://example.com/ids/cd/5413-5482-9350-2005">https://example.com/ids/cd/5413-5482-9350-2005</a></p> <p>preferredName @en: International</p>	[-]	0..*

	<p>restrictions reference preferredName @de: Referenz auf internationale Restriktionen</p> <p>definition @en: Reference to international restrictions defined in the SMC InternationalRestrictionsList. Can be referenced in the general part or in the item. definition @de: Referenz auf internationale Beschränkungen, die in der SMC InternationalRestrictionsList definiert sind. Kann im allgemeinen Teil oder im Item referenziert werden.</p> <p>description @en: Reference to international restrictions defined in the SMC InternationalRestrictionsList. Can be referenced in the general part or in the item. description @de: Referenz auf internationale Beschränkungen, die in der SMC InternationalRestrictionsList definiert sind. Kann im allgemeinen Teil oder im Item referenziert werden.</p>		
[Ref] SpecialTreatmentClassRef	<p>[IRI] <a href="https://example.com/ids/cd/2547-4480-0898-2903">https://example.com/ids/cd/2547-4480-0898-2903</a> preferredName @en: Special treatment class reference preferredName @de: Referenz auf spezielle Warenbehandlung</p> <p>definition @en: Reference to a special treatment of goods defined in the SMC SpecialTreatmentList. Can be referenced in the general part or in the item. definition @de: Referenz auf eine besondere Warenbehandlung, die in der SMC SpecialTreatmentList definiert sind. Kann im allgemeinen Teil oder im Item referenziert werden.</p> <p>description @en: Reference to a special treatment of goods defined in the SMC SpecialTreatmentList. Can be referenced in the general part or in the item. description @de: Referenz auf eine besondere Warenbehandlung, die in der SMC SpecialTreatmentList definiert sind. Kann im allgemeinen Teil oder im Item referenziert werden.</p>	[-]	0..*
[Ref] MediaRef	<p>[IRI] <a href="https://example.com/ids/cd/7212-4393-2460-1082">https://example.com/ids/cd/7212-4393-2460-1082</a> preferredName @en: Media reference preferredName @de: Referenz auf Medien</p>	[-]	0..*

	<p>definition @en: Reference to a file attachment defined in the SMC MediaList. Can be referenced in the general part or in the item. definition @de: Referenz auf einen Dateianhang, der in der SMC MediaList definiert sind. Kann im allgemeinen Teil oder im Item referenziert werden.</p> <p>description @en: Reference to a file attachment defined in the SMC MediaList. Can be referenced in the general part or in the item. description @de: Referenz auf einen Dateianhang, der in der SMC MediaList definiert sind. Kann im allgemeinen Teil oder im Item referenziert werden.</p>		
[SMC] DeliveryDateList	<p>[IRI] <a href="https://example.com/ids/cd/4377-7293-5351-6683">https://example.com/ids/cd/4377-7293-5351-6683</a> preferredName @en: Delivery date list preferredName @de: Liste der Lieferzeiträume</p> <p>definition @en: List of delivery periods to be referenced in the business document. The referencing can be done in the general part or for each item separately. definition @de: Liste von Lieferzeiträumen auf die im Geschäftsdokument referenziert werden sollen. Die Referenzierung kann im allgemeinen Teil oder für jedes Item separat erfolgen.</p> <p>description @en: List of delivery periods to be referenced in the business document. The referencing can be done in the general part or for each item separately. description @de: Liste von Lieferzeiträumen auf die im Geschäftsdokument referenziert werden sollen. Die Referenzierung kann im allgemeinen Teil oder für jedes Item separat erfolgen.</p>	[-] 1 elements	1

### 3.3 Properties of the SMC “BuyerTrackingCodeList”

Table 4: Properties of SMC “BuyerTrackingCodeList”

<b>idShort:</b>	BuyerTrackingCodeList		
<b>Class:</b>	SubmodelElementCollection		
<b>semanticId:</b>	[IRI] <a href="https://example.com/ids/cd/7715-7143-9962-2140">https://example.com/ids/cd/7715-7143-9962-2140</a>		

<b>isCaseOf</b>	-		
<b>AllowDuplicates</b>	-		
<b>Parent</b>	BuyerTrackingCodeList		
<b>Explanation</b>	List of scan codes, e.g. barcodes@en, Liste von Scan Codes, z.B. Barcodes@de		
<b>[SME type]</b>	<b>semanticId = [idType]value</b>	<b>[valueType]</b>	<b>card.</b>
<b>idShort</b>	<b>Description@en</b>	<b>example</b>	
[SMC] TrackingCodes	[IRI] https://example.com/ids/cd/0743-2282-5661-4105 preferredName @en: Tracking code information preferredName @de: Trackingcodeinfomation  definition @en: Scan code information definition @de: Informationen zum Scancode  description @en: Scan code information description @de: Informationen zum Scancode	[-] 2 elements	0..*

### 3.4 Properties of the SMC “TrackingCodes”

Table 5: Properties of SMC “TrackingCodes”

<b>idShort:</b>	TrackingCodes		
<b>Class:</b>	SubmodelElementCollection		
<b>semanticId:</b>	[IRI] https://example.com/ids/cd/0743-2282-5661-4105		
<b>isCaseOf</b>	-		
<b>AllowDuplicates</b>	-		
<b>Parent</b>	TrackingCodes		
<b>Explanation</b>	Scan code information@en, Informationen zum Scancode@de		
<b>[SME type]</b>	<b>semanticId = [idType]value</b>	<b>[valueType]</b>	<b>card.</b>
<b>idShort</b>	<b>Description@en</b>	<b>example</b>	
[Prop] CodeType	[IRI] https://example.com/ids/cd/8962-0369-5294-2281 preferredName @en: Scan code type preferredName @de: Scancodetyp  definition @en: Typ of the Scancode, e.g. NFC, QR-Code, Bar-Code definition @de: Typ des Scancodes, z.B. NFC, QR-Code, Bar-Code  description @en: Typ of the Scancode, e.g. NFC, QR-Code, Bar-Code description @de: Typ des Scancodes, z.B. NFC, QR-Code, Bar-Code	[String]	1
[Prop] Code	[IRI] https://example.com/ids/cd/6178-3139-3267-5380 preferredName @en: Scan code preferredName @de: Scancode  definition @en: Alpha-numeric code definition @de: Alphanumerischer Code	[String]	1

	description @en: Alpha-numeric code description @de: Alphanumerischer Code		
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### 3.5 Properties of the SMC “DeliveryDateList”

Table 6: Properties of SMC “DeliveryDateList”

<b>idShort:</b>	DeliveryDateList		
<b>Class:</b>	SubmodelElementCollection		
<b>semanticId:</b>	[IRI] https://example.com/ids/cd/4377-7293-5351-6683		
<b>isCaseOf</b>	-		
<b>AllowDuplicates</b>	-		
<b>Parent</b>	DeliveryDateList		
<b>Explanation</b>	List of delivery periods to be referenced in the business document. The referencing can be done in the general part or for each item separately. @en, Liste von Lieferzeiträumen auf die im Geschäftsdokument referenziert werden sollen. Die Referenzierung kann im allgemeinen Teil oder für jedes Item separat erfolgen. @de		
<b>[SME type]</b>	<b>semanticId = [idType]value</b>	<b>[valueType]</b>	<b>card.</b>
<b>idShort</b>	<b>Description @en</b>	<b>example</b>	
[SMC] DeliveryDate	[IRI] https://example.com/ids/cd/8627-9456-1124-8971 preferredName @en: Delivery date preferredName @de: Lieferzeitraum  definition @en: Information about the delivery date. Referencing can be done in the general part or for each article separately. definition @de: Informationen zum Lieferdatum. Die Referenzierung kann im allgemeinen Teil oder für jedes Item separat erfolgen.  description @en: Information about the delivery date. Referencing can be done in the general part or for each article separately. description @de: Informationen zum Lieferdatum. Die Referenzierung kann im allgemeinen Teil oder für jedes Item separat erfolgen.	[ - ] 5 elements	1..*

### 3.6 Properties of the SMC “DeliveryDate”

Table 7: Properties of SMC “DeliveryDate”

<b>idShort:</b>	DeliveryDate		
<b>Class:</b>	SubmodelElementCollection		
<b>semanticId:</b>	[IRI] https://example.com/ids/cd/8627-9456-1124-8971		
<b>isCaseOf</b>	-		

<b>AllowDuplicates</b>	-		
<b>Parent</b>	DeliveryDate		
<b>Explanation</b>	Information about the delivery date. Referencing can be done in the general part or for each article separately. @en, Informationen zum Lieferdatum. Die Referenzierung kann im allgemeinen Teil oder für jedes Item separat erfolgen. @de		
<b>[SME type]</b>	<b>semanticId = [idType]value</b>	<b>[valueType]</b>	<b>card.</b>
<b>idShort</b>	<b>Description@en</b>	<b>example</b>	
[Prop] DeliveryStartDate	[IRI] <a href="https://example.com/ids/cd/6283-8026-7314-1051">https://example.com/ids/cd/6283-8026-7314-1051</a> preferredName @en: Delivery start date preferredName @de: Lieferdatum Start  definition @en: Unique date for the start of the delivery period. If an exact delivery date has to be determined, DeliveryStartDate = DeliveryEndDate is set. definition @de: Eindeutiges Datum für den Beginn des Lieferzeitraums. Wenn ein genauer Liefertermin ermittelt werden muss, wird DeliveryStartDate = Delivery EndDate gesetzt.  description @en: Unique date for the start of the delivery period. If an exact delivery date has to be determined, DeliveryStartDate = DeliveryEndDate is set. description @de: Eindeutiges Datum für den Beginn des Lieferzeitraums. Wenn ein genauer Liefertermin ermittelt werden muss, wird DeliveryStartDate = Delivery EndDate gesetzt.	[DateTime]	1
[Prop] DeliveryEndDate	[IRI] <a href="https://example.com/ids/cd/4503-3474-9702-0875">https://example.com/ids/cd/4503-3474-9702-0875</a> preferredName @en: Delivery end date preferredName @de: Lieferdatum Ende  definition @en: Unique date for the end of the delivery period. If an exact delivery date has to be determined, DeliveryStartDate = DeliveryEndDate is set. definition @de: Eindeutiges Datum für das Ende eines Lieferzeitraums. Wenn ein genauer Liefertermin ermittelt werden muss, wird DeliveryStartDate = Delivery EndDate gesetzt.  description @en: Unique date for the end of the delivery period. If an exact delivery date has to be determined, DeliveryStartDate = DeliveryEndDate is set. description @de: Eindeutiges Datum für das Ende eines Lieferzeitraums. Wenn ein genauer Liefertermin ermittelt werden muss, wird DeliveryStartDate = Delivery EndDate gesetzt.	[DateTime]	1
[Prop] FixedDeliveryDate	[IRI] <a href="https://example.com/ids/cd/5443-9392-1270-5551">https://example.com/ids/cd/5443-9392-1270-5551</a> preferredName @en: Fixed delivery date preferredName @de: Festes Lieferdatum  definition @en: The date given is to be interpreted by the recipient as a fixed specified delivery date. definition @de: Der angegebene Termin ist vom Empfänger als fest vorgegebener Liefertermin zu interpretieren.  description @en: The date given is to be interpreted by the recipient as a fixed specified delivery date.	[Boolean]	1

	description @de: Der angegebene Termin ist vom Empfänger als fest vorgegebener Liefertermin zu interpretieren.		
[Prop] OpeningHoursStart	[IRI] https://example.com/ids/cd/5772-7156-9304-1963 preferredName @en: Opening hours start preferredName @de: Öffnungszeiten Beginn  definition @en: Time at the start of regular opening hours on working days. definition @de: Zeitangabe zum Beginn der regulären Öffnungszeiten an Werktagen.  description @en: Time at the start of regular opening hours on working days. description @de: Zeitangabe zum Beginn der regulären Öffnungszeiten an Werktagen.	[Time]	0..1
[Prop] OpeningHoursEnd	[IRI] https://example.com/ids/cd/5039-9797-9525-4226 preferredName @en: Opening hours end preferredName @de: Öffnungszeiten Ende  definition @en: Time at the end of regular opening hours on working days. definition @de: Zeitangabe zum Ende der regulären Öffnungszeiten an Werktagen.  description @en: Time at the end of regular opening hours on working days. description @de: Zeitangabe zum Ende der regulären Öffnungszeiten an Werktagen.	[Time]	0..1

### 3.7 Properties of the SMC “CatalogueReferenceList”

Table 8: Properties of SMC “CatalogueReferenceList”

<b>idShort:</b>	CatalogueReferenceList		
<b>Class:</b>	SubmodelElementCollection		
<b>semanticId:</b>	[IRI] https://example.com/ids/cd/4417-7676-8216-3479		
<b>isCaseOf</b>	-		
<b>AllowDuplicates</b>	-		
<b>Parent</b>	CatalogueReferenceList		
<b>Explanation</b>	List of catalogs to be referenced in the business document. The referencing can be done in the general part or for each item separately. @en, Liste von Katalogen auf die im Geschäftsdokument referenziert werden sollen. Die Referenzierung kann im allgemeinen Teil oder für jedes Item separat erfolgen. @de		
<b>[SME type]</b>	<b>semanticId = [idType]value</b>	<b>[valueType]</b>	<b>card.</b>
<b>idShort</b>	<b>Description@en</b>	<b>example</b>	
[SMC] CatalogueReference	[IRI] https://example.com/ids/cd/2156-8024-3690-4169 preferredName @en: Catalogue reference preferredName @de: Katalog Referenz	[-] 4 elements	0..*



	<p>definition @en: Information about a catalog to reference in the business document. Can also be used as a reference to a price list. The referencing can be done in the general part or for each item separately.</p> <p>definition @de: Informationen zu einem Katalog, auf den im Geschäftsdokument referenziert werden soll. Kann auch als Referenz auf eine Preisliste genutzt werden. Die Referenzierung kann im allgemeinen Teil oder für jedes Item separat erfolgen.</p>		
	<p>description @en: Information about a catalog to reference in the business document. Can also be used as a reference to a price list. The referencing can be done in the general part or for each item separately.</p> <p>description @de: Informationen zu einem Katalog, auf den im Geschäftsdokument referenziert werden soll. Kann auch als Referenz auf eine Preisliste genutzt werden. Die Referenzierung kann im allgemeinen Teil oder für jedes Item separat erfolgen.</p>		

### 3.8 Properties of the SMC “CatalogueReference”

Table 9: Properties of SMC “CatalogueReference”

<b>idShort:</b>	CatalogueReference		
<b>Class:</b>	SubmodelElementCollection		
<b>semanticId:</b>	[IRI] https://example.com/ids/cd/2156-8024-3690-4169		
<b>isCaseOf</b>	-		
<b>AllowDuplicates</b>	-		
<b>Parent</b>	CatalogueReference		
<b>Explanation</b>	Information about a catalog to reference in the business document. Can also be used as a reference to a price list. The referencing can be done in the general part or for each item separately. @en, Informationen zu einem Katalog, auf den im Geschäftsdokument referenziert werden soll. Kann auch als Referenz auf eine Preisliste genutzt werden. Die Referenzierung kann im allgemeinen Teil oder für jedes Item separat erfolgen. @de		
<b>[SME type]</b>	<b>semanticId = [idType]value</b>	<b>[valueType]</b>	<b>card.</b>
<b>idShort</b>	<b>Description@en</b>	<b>example</b>	
[Prop] CatalogID	<p>[IRI] https://example.com/ids/cd/5647-7612-2411-8715</p> <p>preferredName @en: Catalog ID</p> <p>preferredName @de: Katalog ID</p> <p>definition @en: Unique catalog identification. This ID is usually assigned by the supplier when the catalog is generated and remains unchanged throughout the entire lifecycle of the catalog.</p> <p>definition @de: Eindeutige Katalogidentifikation. Diese ID wird in der Regel vom Lieferanten beim Katalog vergeben wird generiert und bleibt während des gesamten Lebenszyklus des Katalog.</p>	[String]	1

	<p>description @en: Unique catalog identification. This ID is usually assigned by the supplier when the catalog is generated and remains unchanged throughout the entire lifecycle of the catalog.</p> <p>description @de: Eindeutige Katalogidentifikation. Diese ID wird in der Regel vom Lieferanten beim Katalog vergeben wird generiert und bleibt während des gesamten Lebenszyklus des Katalog.</p>		
[Prop] CatalogVersion	<p>[IRI] https://example.com/ids/cd/3857-1518-5654-6209</p> <p>preferredName @en: Catalog version</p> <p>preferredName @de: Katalog Version</p> <p>definition @en: Version number of the catalog.</p> <p>definition @de: Versionsnummer des Katalogs.</p> <p>description @en: Version number of the catalog.</p> <p>description @de: Versionsnummer des Katalogs.</p>	[String]	1
[Prop] CatalogName	<p>[IRI] https://example.com/ids/cd/8025-9594-5427-8002</p> <p>preferredName @en: Catalog name</p> <p>preferredName @de: Katalogname</p> <p>definition @en: Name of the catalogue</p> <p>definition @de: Name des Katalogs</p> <p>description @en: Name of the catalogue</p> <p>description @de: Name des Katalogs</p>	[String]	0..1
[Prop] AASCatalogReferenceID	<p>[IRI] https://example.com/ids/cd/4005-3286-4890-4101</p> <p>preferredName @en: AAS Catalog Reference ID</p> <p>preferredName @de: AAS Katalog Referenz ID</p> <p>definition @en: Base ID of an AAS that represents the catalog</p> <p>definition @de: Basis ID einer AAS, die den Katalog abbildet</p> <p>description @en: Base ID of an AAS that represents the catalog</p> <p>description @de: Basis ID einer AAS, die den Katalog abbildet</p>	[AnyUri]	0..1

### 3.9 Properties of the SMC “ModeOfPaymentList”

Table 10: Properties of SMC “ModeOfPaymentList”

<b>idShort:</b>	ModeOfPaymentList		
<b>Class:</b>	SubmodelElementCollection		
<b>semanticId:</b>	[IRI] https://example.com/ids/cd/4000-1770-4266-7971		
<b>isCaseOf</b>	-		
<b>AllowDuplicates</b>	-		
<b>Parent</b>	ModeOfPaymentList		
<b>Explanation</b>	List of payment options to be referenced in the business document. The referencing can be done in the general part or for each item		

	separately. @en, Liste von Bezahlmöglichkeiten auf die im Geschäftsdokument referenziert werden sollen. Die Referenzierung kann im allgemeinen Teil oder für jedes Item separat erfolgen. @de		
<b>[SME type]</b>	<b>semanticId = [idType]value</b>	<b>[valueType]</b>	<b>card.</b>
<b>idShort</b>	<b>Description@en</b>	<b>example</b>	
[SMC] ModeOfPayment	[IRI] https://example.com/ids/cd/3694-6553-5874-1760 preferredName @en: Mode of payment preferredName @de: Bezahlmethode  definition @en: Information about a payment method. The referencing can be done in the general part or for each item separately. definition @de: Informationen zu einer Bezahlmethode. Die Referenzierung kann im allgemeinen Teil oder für jedes Item separat erfolgen.  description @en: Information about a payment method. The referencing can be done in the general part or for each item separately. description @de: Informationen zu einer Bezahlmethode. Die Referenzierung kann im allgemeinen Teil oder für jedes Item separat erfolgen.	[-] 10 elements	0..*

### 3.10 Properties of the SMC “ModeOfPayment”

Table 11: Properties of SMC “ModeOfPayment”

<b>idShort:</b>	ModeOfPayment		
<b>Class:</b>	SubmodelElementCollection		
<b>semanticId:</b>	[IRI] https://example.com/ids/cd/3694-6553-5874-1760		
<b>isCaseOf</b>	-		
<b>AllowDuplicates</b>	-		
<b>Parent</b>	ModeOfPayment		
<b>Explanation</b>	Information about a payment method. The referencing can be done in the general part or for each item separately. @en, Informationen zu einer Bezahlmethode. Die Referenzierung kann im allgemeinen Teil oder für jedes Item separat erfolgen. @de		
<b>[SME type]</b>	<b>semanticId = [idType]value</b>	<b>[valueType]</b>	<b>card.</b>
<b>idShort</b>	<b>Description@en</b>	<b>example</b>	
[SMC] CardPayment	[IRI] https://example.com/ids/cd/8102-7271-5772-7813 preferredName @en: Card payment preferredName @de: Kartenzahlung  definition @en: Use of credit cards, purchase cards etc definition @de: Nutzung von Kreditkarten, Einkaufskarten etc  description @en: Use of credit cards, purchase cards etc description @de: Nutzung von Kreditkarten, Einkaufskarten etc	[-] 2 elements	0..1

[SMC] BankAccount	[IRI] <a href="https://example.com/ids/cd/9193-5476-7679-6377">https://example.com/ids/cd/9193-5476-7679-6377</a> preferredName @en: BankAccount preferredName @de: Bankkontodaten  definition @en: Bank account details definition @de: Bankverbindung  description @en: Bank account details description @de: Bankverbindung	[-] 5 elements	0..1
[Prop] Debit	[IRI] <a href="https://example.com/ids/cd/9675-5178-9634-8241">https://example.com/ids/cd/9675-5178-9634-8241</a> preferredName @en: Debit preferredName @de: Lastschrift  definition @en: The element Debit specifies the credit note procedure as payment system. definition @de: Das Element Debit gibt als Zahlungssystem das Lastschriftverfahren an.  description @en: The element Debit specifies the credit note procedure as payment system. description @de: Das Element Debit gibt als Zahlungssystem das Lastschriftverfahren an.	[Boolean]	1
[Prop] Check	[IRI] <a href="https://example.com/ids/cd/2854-2994-7589-4799">https://example.com/ids/cd/2854-2994-7589-4799</a> preferredName @en: Check preferredName @de: Scheck  definition @en: The element Check specifies paying by check as payment system definition @de: Das Element Check gibt die Zahlung per Scheck als Zahlungssystem an  description @en: The element Check specifies paying by check as payment system description @de: Das Element Check gibt die Zahlung per Scheck als Zahlungssystem an	[Boolean]	1
[Prop] Cash	[IRI] <a href="https://example.com/ids/cd/5783-2936-4003-9356">https://example.com/ids/cd/5783-2936-4003-9356</a> preferredName @en: Cash preferredName @de: Barzahlung  definition @en: The element Cash specifies cash payment as payment system definition @de: Das Element Cash gibt die Barzahlung als Zahlungssystem an  description @en: The element Cash specifies cash payment as payment system description @de: Das Element Cash gibt die Barzahlung als Zahlungssystem an	[Boolean]	1
[Prop] CentralRegulation	[IRI] <a href="https://example.com/ids/cd/4321-3905-0900-8960">https://example.com/ids/cd/4321-3905-0900-8960</a> preferredName @en: Central payment regulation preferredName @de: Zentrale Zahlungsregulierung  definition @en: Indicates if the payment process is transacted via a centralized settlement definition @de: Gibt an, ob der Zahlungsvorgang über eine zentrale Abwicklung abgewickelt wird	[Boolean]	0..1

	<p>description @en: Indicates if the payment process is transacted via a centralized settlement</p> <p>description @de: Gibt an, ob der Zahlungsvorgang über eine zentrale Abwicklung abgewickelt wird</p>		
[Prop] PaymentPrinciple	<p>[IRI] <a href="https://example.com/ids/cd/9027-4259-7944-3949">https://example.com/ids/cd/9027-4259-7944-3949</a></p> <p>preferredName @en: Payment principle</p> <p>preferredName @de: Zahlungsprinzip</p> <p>definition @en: Information about the payment principle, e.g. pre-payment, payment on delivery, partial payment</p> <p>definition @de: Informationen zur Zahlungsweise, z.B. Vorauszahlung, Zahlung bei Lieferung, Teilzahlung</p> <p>description @en: Information about the payment principle, e.g. pre-payment, payment on delivery, partial payment</p> <p>description @de: Informationen zur Zahlungsweise, z.B. Vorauszahlung, Zahlung bei Lieferung, Teilzahlung</p>	[String]	0..1
[Prop] PaymentTerms	<p>[IRI] <a href="https://example.com/ids/cd/8165-1448-4827-5367">https://example.com/ids/cd/8165-1448-4827-5367</a></p> <p>preferredName @en: PaymentTerms</p> <p>preferredName @de: Zahlungsbedingungen</p> <p>definition @en: Information to payment terms</p> <p>definition @de: Informationen zu Zahlungsbedingungen</p> <p>description @en: Information to payment terms</p> <p>description @de: Informationen zu Zahlungsbedingungen</p>	[AnyUri]	0..1
[Prop] PaymentDays	<p>[IRI] <a href="https://example.com/ids/cd/0242-0424-2898-2239">https://example.com/ids/cd/0242-0424-2898-2239</a></p> <p>preferredName @en: PaymentDays</p> <p>preferredName @de: Tage bis zur Bezahlung</p> <p>definition @en: Number of days within which payment has to be made.</p> <p>definition @de: Anzahl der Tage innerhalb denen die Bezahlung erfolgen muss.</p> <p>description @en: Number of days within which payment has to be made.</p> <p>description @de: Anzahl der Tage innerhalb denen die Bezahlung erfolgen muss.</p>	[Integer]	0..1
[Prop] DiscountPercent	<p>[IRI] <a href="https://example.com/ids/cd/0382-5703-6404-5073">https://example.com/ids/cd/0382-5703-6404-5073</a></p> <p>preferredName @en: DiscountPercent</p> <p>preferredName @de: Skonto Prozent</p> <p>definition @en: Percentage for cash discount</p> <p>definition @de: Prozentsatz für Skonto</p> <p>description @en: Percentage for cash discount</p> <p>description @de: Prozentsatz für Skonto</p>	[Float]	0..1
[Prop] DiscountDays	<p>[IRI] <a href="https://example.com/ids/cd/5442-4989-0151-5804">https://example.com/ids/cd/5442-4989-0151-5804</a></p> <p>preferredName @en: DiscountDays</p> <p>preferredName @de: Skonto Tage</p> <p>definition @en: Validity period for cash discount</p> <p>definition @de: Gültigkeitszeitraum für Skonto</p>	[Integer]	0..1

	description @en: Validity period for cash discount description @de: Gültigkeitszeitraum für Skonto		
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### 3.11 Properties of the SMC “CardPayment”

Table 12: Properties of SMC “CardPayment”

<b>idShort:</b>	CardPayment		
<b>Class:</b>	SubmodelElementCollection		
<b>semanticId:</b>	[IRI] https://example.com/ids/cd/8102-7271-5772-7813		
<b>isCaseOf</b>	-		
<b>AllowDuplicates</b>	-		
<b>Parent</b>	CardPayment		
<b>Explanation</b>	Use of credit cards, purchase cards etc@en,Nutzung von Kreditkarten, Einkaufskarten etc@de		
<b>[SME type]</b>	<b>semanticId = [idType]value</b>	<b>[valueType]</b>	<b>card.</b>
<b>idShort</b>	<b>Description@en</b>	<b>example</b>	
[Prop] CardType	[IRI] https://example.com/ids/cd/6684-8546-3205-0840 preferredName @en: Card type preferredName @de: Kartentyp  definition @en: The type of the credit or purchasing card definition @de: Der Typ der Kredit- oder Einkaufskarte.  description @en: The type of the credit or purchasing card description @de: Der Typ der Kredit- oder Einkaufskarte.	[String]	1
[Prop] ReferencePaymentProvider	[IRI] https://example.com/ids/cd/4499-1017-7221-5081 preferredName @en: Payment provider reference preferredName @de: Referenz auf Bezahlanbieter  definition @en: Reference to a payment provider that processes card payments definition @de: Referenz zu einem Bezahlanbieter, der die Kartenzahlung abwickelt  description @en: Reference to a payment provider that processes card payments description @de: Referenz zu einem Bezahlanbieter, der die Kartenzahlung abwickelt	[String]	1

### 3.12 Properties of the SMC “BankAccount”

Table 13: Properties of SMC “BankAccount”

<b>idShort:</b>	BankAccount		
<b>Class:</b>	SubmodelElementCollection		

<b>semanticId:</b>	[IRI] https://example.com/ids/cd/9193-5476-7679-6377		
<b>isCaseOf</b>	-		
<b>AllowDuplicates</b>	-		
<b>Parent</b>	BankAccount		
<b>Explanation</b>	Bank account details@en,Bankverbindung@de		
<b>[SME type]</b>	<b>semanticId = [idType]value</b>	<b>[valueType]</b>	<b>card.</b>
<b>idShort</b>	<b>Description@en</b>	<b>example</b>	
[Prop] Holder	[IRI] https://example.com/ids/cd/0405-5177-4671-3659 preferredName @en: Holder preferredName @de: Kontoinhaber  definition @en: Name of the account holder definition @de: Name des Kontoinhabers  description @en: Name of the account holder description @de: Name des Kontoinhabers	[String]	1
[Prop] AccountNumber	[IRI] https://example.com/ids/cd/2821-1744-1979-3822 preferredName @en: AccountNumber preferredName @de: Kontonummer  definition @en: Code to identify a bank account definition @de: Code zur Identifizierung eines Bankkontos, z.B. Kontonummer, IBAN  description @en: Code to identify a bank account description @de: Code zur Identifizierung eines Bankkontos, z.B. Kontonummer, IBAN	[String]	1
[Prop] BankCode	[IRI] https://example.com/ids/cd/9222-7046-7553-4553 preferredName @en: BankCode preferredName @de: Bankleitzahl  definition @en: Bank identification number definition @de: Bankidentifikationsnummer, z.B. BLZ, BIC  description @en: Bank identification number description @de: Bankidentifikationsnummer, z.B. BLZ, BIC	[String]	1
[Prop] BankName	[IRI] https://example.com/ids/cd/2062-9165-1877-5897 preferredName @en: BankName preferredName @de: Name der Bank  definition @en: Name of the bank definition @de: Name der Bank  description @en: Name of the bank description @de: Name der Bank	[String]	0..1
[Prop] BankCountry	[IRI] https://example.com/ids/cd/9394-9931-2771-9890 preferredName @en: BankCountry preferredName @de: Land der Bank  definition @en: Country in which the bank account is managed. definition @de: Land, in dem das Bankkonto geführt wird.	[String]	0..1

	description @en: Country in which the bank account is managed. description @de: Land, in dem das Bankkonto geführt wird.		
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### 3.13 Properties of the SMC “IncotermsList”

Table 14: Properties of SMC “IncotermsList”

<b>idShort:</b>	IncotermsList		
<b>Class:</b>	SubmodelElementCollection		
<b>semanticId:</b>	[IRI] https://example.com/ids/cd/1293-2488-2965-6530		
<b>isCaseOf</b>	-		
<b>AllowDuplicates</b>	-		
<b>Parent</b>	IncotermsList		
<b>Explanation</b>	List of incoterms conditions to be referenced in the business document. The referencing can be done in the general part or for each item separately. @en, Liste von Incotermsbedingungen auf die im Geschäftsdokument referenziert werden sollen. Die Referenzierung kann im allgemeinen Teil oder für jedes Item separat erfolgen. @de		
<b>[SME type]</b>	<b>semanticId = [idType]value</b>	<b>[valueType]</b>	<b>card.</b>
<b>idShort</b>	<b>Description @en</b>	<b>example</b>	
[SMC] Incoterms	[IRI] https://example.com/ids/cd/4298-0749-7307-3577 preferredName @en: Incoterms preferredName @de: Incoterms  definition @en: Information about an incoterms condition. The referencing can be done in the general part or for each item separately. definition @de: Informationen zu einer Incotermsbedingung. Die Referenzierung kann im allgemeinen Teil oder für jedes Item separat erfolgen.  description @en: Information about an incoterms condition. The referencing can be done in the general part or for each item separately. description @de: Informationen zu einer Incotermsbedingung. Die Referenzierung kann im allgemeinen Teil oder für jedes Item separat erfolgen.	[-] 5 elements	0..*

### 3.14 Properties of the SMC “Incoterms”

Table 15: Properties of SMC “Incoterms”

<b>idShort:</b>	Incoterms		
<b>Class:</b>	SubmodelElementCollection		
<b>semanticId:</b>	[IRI] https://example.com/ids/cd/4298-0749-7307-3577		
<b>isCaseOf</b>	-		
<b>AllowDuplicates</b>	-		



Parent	Incoterms		
Explanation	Information about an incoterms condition. The referencing can be done in the general part or for each item separately. @en, Informationen zu einer Incotermsbedingung. Die Referenzierung kann im allgemeinen Teil oder für jedes Item separat erfolgen. @de		
[SME type]	<b>semanticId = [idType]value</b>	<b>[valueType]</b>	<b>card.</b>
idShort	<b>Description@en</b>	<b>example</b>	
[Prop] Incoterm	[IRI] <a href="https://example.com/ids/cd/3185-1406-3586-5873">https://example.com/ids/cd/3185-1406-3586-5873</a> preferredName @en: Incoterm preferredName @de: Incoterm  definition @en: International coding of transport, costs and insurance according to INCOTERMS 2000, UN/ECE, Recommendation No. 5 (ECE/TRADE/259) definition @de: Internationale Kodierung von Transport, Kosten und Versicherung gemäß INCOTERMS 2000, UN/ECE, Recommendation No. 5 (ECE/TRADE/259)  description @en: International coding of transport, costs and insurance according to INCOTERMS 2000, UN/ECE, Recommendation No. 5 (ECE/TRADE/259) description @de: Internationale Kodierung von Transport, Kosten und Versicherung gemäß INCOTERMS 2000, UN/ECE, Recommendation No. 5 (ECE/TRADE/259)	[String]	1
[Prop] Location1	[IRI] <a href="https://example.com/ids/cd/2809-8179-9555-2986">https://example.com/ids/cd/2809-8179-9555-2986</a> preferredName @en: Location1 preferredName @de: Ort 1  definition @en: Location of supplier definition @de: Ort des Anbieters  description @en: Location of supplier description @de: Ort des Anbieters	[String]	0..1
[Prop] Location2	[IRI] <a href="https://example.com/ids/cd/4313-9535-3582-5165">https://example.com/ids/cd/4313-9535-3582-5165</a> preferredName @en: Location2 preferredName @de: Ort 2  definition @en: Location of buyer definition @de: Ort des Nachfragers  description @en: Location of buyer description @de: Ort des Nachfragers	[String]	0..1
[Prop] TransferLocation	[IRI] <a href="https://example.com/ids/cd/4849-2307-6803-8682">https://example.com/ids/cd/4849-2307-6803-8682</a> preferredName @en: TransferLocation preferredName @de: Transferort  definition @en: Transfer of goods from supplier to buyer or vice versa. definition @de: Übergang der Ware von Anbieter zu Nachfrager oder umgekehrt  description @en: Transfer of goods from supplier to buyer or vice versa. description @de: Übergang der Ware von Anbieter zu Nachfrager oder umgekehrt	[String]	0..1

[Prop] TransportRemark	[IRI] https://example.com/ids/cd/8904-9124-1226-0128 preferredName @en: Remark preferredName @de: Bemerkung  definition @en: Note on the type of transport definition @de: Bemerkung für die Transportart  description @en: Note on the type of transport description @de: Bemerkung für die Transportart	[String]	0..1
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### 3.15 Properties of the SMC “InternationalRestrictionList”

Table 16: Properties of SMC “InternationalRestrictionList”

<b>idShort:</b>	InternationalRestrictionList		
<b>Class:</b>	SubmodelElementCollection		
<b>semanticId:</b>	[IRI] https://example.com/ids/cd/6435-6143-7395-8504		
<b>isCaseOf</b>	-		
<b>AllowDuplicates</b>	-		
<b>Parent</b>	InternationalRestrictionList		
<b>Explanation</b>	List of international restrictions to be referenced in the business document. The referencing can be done in the general part or for each item separately. @en, Liste von internationalen Restriktionen auf die im Geschäftsdokument referenziert werden sollen. Die Referenzierung kann im allgemeinen Teil oder für jedes Item separat erfolgen. @de		
<b>[SME type]</b>	<b>semanticId = [idType]value</b>	<b>[valueType]</b>	<b>card.</b>
<b>idShort</b>	<b>Description @en</b>	<b>example</b>	
[SMC] InternationalRestriction	[IRI] https://example.com/ids/cd/7730-3338-6277-2288 preferredName @en: International restrictions preferredName @de: Internationale Restriktion  definition @en: Information about an international restriction. The referencing can be done in the general part or for each item separately. definition @de: Informationen zu einer internationalen Restriktion. Die Referenzierung kann im allgemeinen Teil oder für jedes Item separat erfolgen.  description @en: Information about an international restriction. The referencing can be done in the general part or for each item separately. description @de: Informationen zu einer internationalen Restriktion. Die Referenzierung kann im allgemeinen Teil oder für jedes Item separat erfolgen.	[-] 5 elements	0..1

### 3.16 Properties of the SMC “InternationalRestriction”

Table 17: Properties of SMC “InternationalRestriction”

<b>idShort:</b>	InternationalRestriction		
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<b>Class:</b>	SubmodelElementCollection		
<b>semanticId:</b>	[IRI] <a href="https://example.com/ids/cd/7730-3338-6277-2288">https://example.com/ids/cd/7730-3338-6277-2288</a>		
<b>isCaseOf</b>	-		
<b>AllowDuplicates</b>	-		
<b>Parent</b>	InternationalRestriction		
<b>Explanation</b>	Information about an international restriction. The referencing can be done in the general part or for each item separately. @en: Informationen zu einer internationalen Restriktion. Die Referenzierung kann im allgemeinen Teil oder für jedes Item separat erfolgen. @de		
<b>[SME type]</b>	<b>semanticId = [idType]value</b>	<b>[valueType]</b>	<b>card.</b>
<b>idShort</b>	<b>Description @en</b>	<b>example</b>	
[Prop] RestrictionType	[IRI] <a href="https://example.com/ids/cd/2013-7229-5960-0256">https://example.com/ids/cd/2013-7229-5960-0256</a> preferredName @en: Restriction type preferredName @de: Art der Restriktion  definition @en: Type of international delivery restriction, e.g. embargo definition @de: Art der internationalen Restriktion, z.B. Embargo  description @en: Type of international delivery restriction, e.g. embargo description @de: Art der internationalen Restriktion, z.B. Embargo	[String]	1
[Prop] CountryCodeEmbargoImposing	[IRI] <a href="https://example.com/ids/cd/6317-3180-6320-4219">https://example.com/ids/cd/6317-3180-6320-4219</a> preferredName @en: Imposing country preferredName @de: Verhängendes Land  definition @en: Country which is imposing the restriction definition @de: Land, das die Restriktion verhängt  description @en: Country which is imposing the restriction description @de: Land, das die Restriktion verhängt	[String]	0..*
[Prop] CountryCodeEmbargoTarget	[IRI] <a href="https://example.com/ids/cd/2441-4107-3887-0267">https://example.com/ids/cd/2441-4107-3887-0267</a> preferredName @en: Target country preferredName @de: Zielland  definition @en: Target country of the restriction definition @de: Land, das die Restriktion betrifft  description @en: Target country of the restriction description @de: Land, das die Restriktion betrifft	[String]	0..*
[Prop] RegionCodeEmbargoImposing	[IRI] <a href="https://example.com/ids/cd/6498-9456-9286-1468">https://example.com/ids/cd/6498-9456-9286-1468</a> preferredName @en: Imposing region preferredName @de: Verhängende Region  definition @en: Region which is imposing the restriction definition @de: Region, die die Restriktion verhängt, z.B. EU	[String]	0..*

	description @en: Region which is imposing the restriction description @de: Region, die die Restriktion verhängt, z.B. EU		
[Prop] RegionCodeEmbargoTarget	[IRI] https://example.com/ids/cd/2936-0932-6489-1390 preferredName @en: Target region preferredName @de: Zielregion  definition @en: Target region of the restriction definition @de: Region, die die Restriktion betrifft  description @en: Target region of the restriction description @de: Region, die die Restriktion betrifft	[String]	0..*

### 3.17 Properties of the SMC “CertificationsList”

Table 18: Properties of SMC “CertificationsList”

<b>idShort:</b>	CertificationsList		
<b>Class:</b>	SubmodelElementCollection		
<b>semanticId:</b>	[IRI] https://example.com/ids/cd/1904-3261-2120-0020		
<b>isCaseOf</b>	-		
<b>AllowDuplicates</b>	-		
<b>Parent</b>	CertificationsList		
<b>Explanation</b>	Liste von Information on necessary certifications or approval regulations The referencing can be done in the general part or for each item separately. @en, Liste von Informationen zu notwendigen Zertifizierungen oder Zulassungsvorschriften. Die Referenzierung kann im allgemeinen Teil oder für jedes Item separat erfolgen. @de		
<b>[SME type]</b>	<b>semanticId = [idType]value</b>	<b>[valueType]</b>	<b>card.</b>
<b>idShort</b>	<b>Description@en</b>	<b>example</b>	
[SMC] Certification	[IRI] https://example.com/ids/cd/7466-3288-8215-1714 preferredName @en: Certification information preferredName @de: Zertifizierungsinformationen  definition @en: Information on necessary certifications or approval regulations The referencing can be done in the general part or for each item separately. definition @de: Informationen zu notwendigen Zertifizierungen oder Zulassungsvorschriften. Die Referenzierung kann im allgemeinen Teil oder für jedes Item separat erfolgen.  description @en: Information on necessary certifications or approval regulations The referencing can be done in the general part or for each item separately. description @de: Informationen zu notwendigen Zertifizierungen oder Zulassungsvorschriften. Die Referenzierung kann im allgemeinen Teil oder für jedes Item separat erfolgen.	[-] 2 elements	0..*

### 3.18 Properties of the SMC “Certification”

Table 19: Properties of SMC “Certification”

<b>idShort:</b>	Certification		
<b>Class:</b>	SubmodelElementCollection		
<b>semanticId:</b>	[IRI] https://example.com/ids/cd/7466-3288-8215-1714		
<b>isCaseOf</b>	-		
<b>AllowDuplicates</b>	-		
<b>Parent</b>	Certification		
<b>Explanation</b>	Information on necessary certifications or approval regulations The referencing can be done in the general part or for each item separately. @en, Informationen zu notwendigen Zertifizierungen oder Zulassungsvorschriften. Die Referenzierung kann im allgemeinen Teil oder für jedes Item separat erfolgen. @de		
<b>[SME type]</b>	<b>semanticId = [idType]value</b>	<b>[valueType]</b>	<b>card.</b>
<b>idShort</b>	<b>Description @en</b>	<b>example</b>	
[Prop] CertificationType	[IRI] https://example.com/ids/cd/3871-6863-0886-7382 preferredName @en: Certification type preferredName @de: Typ der Zertifizierung  definition @en: Type of certification or approval requirement definition @de: Art der Zertifizierung oder Zulassungsvorschrift  description @en: Type of certification or approval requirement description @de: Art der Zertifizierung oder Zulassungsvorschrift	[String]	1
[Prop] CertificationRegulation	[IRI] https://example.com/ids/cd/7383-2874-5226-5624 preferredName @en: Certification regulation preferredName @de: Zertifizierungsvorschrift  definition @en: Specific name of the certification or approval requirement definition @de: Konkrete Benennung der Zertifizierung oder Zulassungsvorschrift  description @en: Specific name of the certification or approval requirement description @de: Konkrete Benennung der Zertifizierung oder Zulassungsvorschrift	[String]	1

### 3.19 Properties of the SMC “SpecialTreatmentClassList”

Table 20: Properties of SMC “SpecialTreatmentClassList”

<b>idShort:</b>	SpecialTreatmentClassList		
<b>Class:</b>	SubmodelElementCollection		
<b>semanticId:</b>	[IRI] https://example.com/ids/cd/5998-1917-5001-0928		

<b>isCaseOf</b>	-		
<b>AllowDuplicates</b>	-		
<b>Parent</b>	SpecialTreatmentClassList		
<b>Explanation</b>	List of special treatment classes to be referenced in the business document. The referencing can be done in the general part or for each item separately. @en, Liste von Sonderbehandlungsklassen auf die im Geschäftsdokument referenziert werden sollen. Die Referenzierung kann im allgemeinen Teil oder für jedes Item separat erfolgen. @de		
<b>[SME type]</b>	<b>semanticId = [idType]value</b>	<b>[valueType]</b>	<b>card.</b>
<b>idShort</b>	<b>Description@en</b>	<b>example</b>	
[Prop] SpecialTreatmentClass	[IRI] https://example.com/ids/cd/3372-2658-1353-9822 preferredName @en: Special treatment class preferredName @de: Warenbehandlungsklasse  definition @en: Kurzbezeichnung für das Sonderbehandlungsreglement, z.B. GGVS (Gefahrgutverordnung Straße) definition @de: Short name for the special treatment regulations, e.g. GGVS (Dangerous Goods Ordinance Street)"  description @en: Kurzbezeichnung für das Sonderbehandlungsreglement, z.B. GGVS (Gefahrgutverordnung Straße) description @de: Short name for the special treatment regulations, e.g. GGVS (Dangerous Goods Ordinance Street)"	[String]	0..*

### 3.20 Properties of the SMC “InvolvedPartiesList”

Table 21: Properties of SMC “InvolvedPartiesList”

<b>idShort:</b>	InvolvedPartiesList		
<b>Class:</b>	SubmodelElementCollection		
<b>semanticId:</b>	[IRI] https://example.com/ids/cd/3208-2275-3712-5361		
<b>isCaseOf</b>	-		
<b>AllowDuplicates</b>	-		
<b>Parent</b>	InvolvedPartiesList		
<b>Explanation</b>	List of involved business parties to be referenced in the business document. The referencing can be done in the general part or for each item separately. @en, Liste beteiligter Geschäftsparteien auf die im Geschäftsdokument referenziert werden sollen. Die Referenzierung kann im allgemeinen Teil oder für jedes Item separat erfolgen. @de		
<b>[SME type]</b>	<b>semanticId = [idType]value</b>	<b>[valueType]</b>	<b>card.</b>
<b>idShort</b>	<b>Description@en</b>	<b>example</b>	

[SMC] Party	[IRI] https://example.com/ids/cd/6378-7096-6959-2893 preferredName @en: Party preferredName @de: Partei  definition @en: Information about a business party. The referencing can be done in the general part or for each item separately. definition @de: Informationen zu einer Geschäftspartei.Die Referenzierung kann im allgemeinen Teil oder für jedes Item separat erfolgen.  description @en: Information about a business party. The referencing can be done in the general part or for each item separately. description @de: Informationen zu einer Geschäftspartei.Die Referenzierung kann im allgemeinen Teil oder für jedes Item separat erfolgen.	[-] 6 elements	1..*
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### 3.21 Properties of the SMC “Party”

Table 22: Properties of SMC “Party”

<b>idShort:</b>	Party		
<b>Class:</b>	SubmodelElementCollection		
<b>semanticId:</b>	[IRI] https://example.com/ids/cd/6378-7096-6959-2893		
<b>isCaseOf</b>	-		
<b>AllowDuplicates</b>	-		
<b>Parent</b>	Party		
<b>Explanation</b>	Information about a business party. The referencing can be done in the general part or for each item separately.@en,Informationen zu einer Geschäftspartei.Die Referenzierung kann im allgemeinen Teil oder für jedes Item separat erfolgen.@de		
<b>[SME type]</b>	<b>semanticId = [idType]value</b>	<b>[valueType]</b>	<b>card.</b>
<b>idShort</b>	<b>Description@en</b>	<b>example</b>	
[Prop] PartyRole	[IRI] https://example.com/ids/cd/3075-8997-1396-6274 preferredName @en: Party role preferredName @de: Partner Rolle  definition @en: Role of the business partner within this document definition @de: Rolle des Geschäftspartners innerhalb dieses Dokumentes  description @en: Role of the business partner within this document description @de: Rolle des Geschäftspartners innerhalb dieses Dokumentes	[String]	1
[Prop] ReferenceID	[IRI] https://example.com/ids/cd/3771-1724-0131-7837 preferredName @en: Reference ID preferredName @de: Referenz ID  definition @en: Unique identifier of the business partner. definition @de: Eindeutiger Identifikator des Geschäftspartners.	[String]	0..1

	<p>description @en: Unique identifier of the business partner. description @de: Eindeutiger Identifikator des Geschäftspartners.</p>		
[Prop] OrganisationIRI	<p>[IRI] https://example.com/ids/cd/4708-6632-0530-0460 preferredName @en: Organisation IRI preferredName @de: Organisations IRI</p> <p>definition @en: IRI of the organisation definition @de: IRI der Organisation</p> <p>description @en: IRI of the organisation description @de: IRI der Organisation</p>	[AnyUri]	0..1
[Prop] InvolvedInDocumentExchange	<p>[IRI] https://example.com/ids/cd/3844-6746-0152-2371 preferredName @en: Involved in document exchange preferredName @de: In den Dokumentaustausch einbezogen</p> <p>definition @en: Is the business partner involved in the exchange of this document? definition @de: Ist der Geschäftspartner in den Austausch dieses Dokuments involviert?</p> <p>description @en: Is the business partner involved in the exchange of this document? description @de: Ist der Geschäftspartner in den Austausch dieses Dokuments involviert?</p>	[Boolean]	1
[SMC] Address	<p>[IRI] https://example.com/ids/cd/5798-8153-9666-1312 preferredName @en: Address preferredName @de: Adresse</p> <p>definition @en: Address information for a business partner definition @de: Adressinformationen zu einem Geschäftspartner</p> <p>description @en: Address information for a business partner description @de: Adressinformationen zu einem Geschäftspartner</p>	[IRI] 21 elements	1..*
[SMC] ContactDetails	<p>[IRI] https://example.com/ids/cd/4718-1728-1436-5846 preferredName @en: Contact details preferredName @de: Kontaktdetails Ansprechpartner</p> <p>definition @en: Information about a contact person definition @de: Informationen über einen Ansprechpartner</p> <p>description @en: Information about a contact person description @de: Informationen über einen Ansprechpartner</p>	[IRI] 1 elements	1..*

### 3.22 Properties of the SMC “Address”

Table 23: Properties of SMC “Address”

<b>idShort:</b>	Address		
<b>Class:</b>	SubmodelElementCollection		
<b>semanticId:</b>	[IRI] https://example.com/ids/cd/5798-8153-9666-1312		



<b>isCaseOf</b>	-		
<b>AllowDuplicates</b>	-		
<b>Parent</b>	Address		
<b>Explanation</b>	Address information for a business partner@en,Adressinformationen zu einem Geschäftspartner@de		
<b>[SME type]</b>	<b>semanticId = [idType]value</b>	<b>[valueType]</b>	<b>card.</b>
<b>idShort</b>	<b>Description@en</b>	<b>example</b>	
[Prop] CompanyName1	[IRI] https://example.com/ids/cd/9862-3724-2583-1632 preferredName @en: Company name 1 preferredName @de: Firmenname 1  definition @en: First address line, usually the name of the organization definition @de: Erste Adresszeile, meistens der Name der Organisation  description @en: First address line, usually the name of the organization description @de: Erste Adresszeile, meistens der Name der Organisation	[String]	0..1
[Prop] CompanyName2	[IRI] https://example.com/ids/cd/3347-2429-6980-2704 preferredName @en: Company name 2 preferredName @de: Firmenname 2  definition @en: Additional line for the organization name definition @de: Zusätzliche Zeile für den Namen der Organisation  description @en: Additional line for the organization name description @de: Zusätzliche Zeile für den Namen der Organisation	[String]	0..1
[Prop] CompanyName3	[IRI] https://example.com/ids/cd/3229-8143-0982-0793 preferredName @en: Company name 3 preferredName @de: Firmenname 3  definition @en: Additional line for the organization name definition @de: Zusätzliche Zeile für den Namen der Organisation  description @en: Additional line for the organization name description @de: Zusätzliche Zeile für den Namen der Organisation	[String]	0..1
[Prop] CompanyName4	[IRI] https://example.com/ids/cd/0964-4665-7761-4017 preferredName @en: Company name 4 preferredName @de: Firmenname 4  definition @en: Additional line for the organization name definition @de: Zusätzliche Zeile für den Namen der Organisation  description @en: Additional line for the organization name description @de: Zusätzliche Zeile für den Namen der Organisation	[String]	0..1
[Prop] ToPerson	[IRI] https://example.com/ids/cd/6457-5420-4250-3462 preferredName @en: to the attention of preferredName @de: zu Händen von  definition @en: Address line for the information -for the attention of- definition @de: Adresszeile für die Angabe -zu Händen von-	[String]	0..1

	<p>description @en: Address line for the information -for the attention of- description @de: Adresszeile für die Angabe -zu Händen von-</p>		
[Prop] DeliveryPhone	<p>[IRI] https://example.com/ids/cd/3978-9570-7866-1164 preferredName @en: Delivery phone number preferredName @de: Telefonnummer des Empfängers</p> <p>definition @en: Telephone number of the recipient (not the buyer) for the shipping companies. That can also be the gatekeeper. definition @de: Telefonnummer des Empfängers (nicht des Käufers) für die Speditionen. Das kann auch mal der Pförtner sein.</p> <p>description @en: Telephone number of the recipient (not the buyer) for the shipping companies. That can also be the gatekeeper. description @de: Telefonnummer des Empfängers (nicht des Käufers) für die Speditionen. Das kann auch mal der Pförtner sein.</p>	[String]	0..1
[Prop] AdditionalAddressline1	<p>[IRI] https://example.com/ids/cd/9897-7479-3673-2597 preferredName @en: Additional Address line 1 preferredName @de: zusätzliche Adresszeile 1</p> <p>definition @en: Additional Address line definition @de: zusätzliche Adresszeile</p> <p>description @en: Additional Address line description @de: zusätzliche Adresszeile</p>	[String]	0..1
[Prop] AdditionalAddressline2	<p>[IRI] https://example.com/ids/cd/4220-0482-1327-8151 preferredName @en: Additional Address line2 preferredName @de: zusätzliche Adresszeile 2</p> <p>definition @en: Additional Address line definition @de: zusätzliche Adresszeile</p> <p>description @en: Additional Address line description @de: zusätzliche Adresszeile</p>	[String]	0..1
[Prop] AdditionalAddressline3	<p>[IRI] https://example.com/ids/cd/0231-2955-3714-4514 preferredName @en: Additional Address line 3 preferredName @de: zusätzliche Adresszeile 3</p> <p>definition @en: Additional Address line 3 definition @de: zusätzliche Adresszeile 3</p> <p>description @en: Additional Address line 3 description @de: zusätzliche Adresszeile 3</p>	[String]	0..1
[Prop] AdditionalAddressline4	<p>[IRI] https://example.com/ids/cd/9054-4382-9976-1739 preferredName @en: Additional Address line 4 preferredName @de: zusätzliche Adresszeile 4</p> <p>definition @en: Additional Address line 4 definition @de: zusätzliche Adresszeile 4</p> <p>description @en: Additional Address line 4 description @de: zusätzliche Adresszeile 4</p>	[String]	0..1
[Prop] UnloadingPoint	<p>[IRI] https://example.com/ids/cd/0461-9712-7170-9023 preferredName @en: Unloading point preferredName @de: Abladestelle</p>	[String]	0..1

	<p>definition @en: Unloading point definition @de: Abladestelle</p> <p>description @en: Unloading point description @de: Abladestelle</p>		
[Prop] Gate	<p>[IRI] <a href="https://example.com/ids/cd/8484-1863-1901-5069">https://example.com/ids/cd/8484-1863-1901-5069</a> preferredName @en: Gate preferredName @de: Tor</p> <p>definition @en: Gate in the context of an address definition @de: Tor im Zusammenhang mit einer Adresse</p> <p>description @en: Gate in the context of an address description @de: Tor im Zusammenhang mit einer Adresse</p>	[String]	0..1
[Prop] Hall	<p>[IRI] <a href="https://example.com/ids/cd/8880-4055-9494-9724">https://example.com/ids/cd/8880-4055-9494-9724</a> preferredName @en: Hall preferredName @de: Halle</p> <p>definition @en: Hall in the context of an address definition @de: Halle im Zusammenhang mit einer Adresse</p> <p>description @en: Hall in the context of an address description @de: Halle im Zusammenhang mit einer Adresse</p>	[String]	0..1
[Prop] Floor	<p>[IRI] <a href="https://example.com/ids/cd/2697-7470-5291-9200">https://example.com/ids/cd/2697-7470-5291-9200</a> preferredName @en: Floor preferredName @de: Stockwerk</p> <p>definition @en: Floor in the context of an address definition @de: Stockwerk im Zusammenhang mit einer Adresse</p> <p>description @en: Floor in the context of an address description @de: Stockwerk im Zusammenhang mit einer Adresse</p>	[String]	0..1
[Prop] Room	<p>[IRI] <a href="https://example.com/ids/cd/6023-1738-8823-3441">https://example.com/ids/cd/6023-1738-8823-3441</a> preferredName @en: Room number preferredName @de: Raumnummer</p> <p>definition @en: Room number in the context of an address definition @de: Raumnummer im Zusammenhang mit einer Adresse</p> <p>description @en: Room number in the context of an address description @de: Raumnummer im Zusammenhang mit einer Adresse</p>	[String]	0..1
[Prop] Department	<p>[IRI] <a href="https://example.com/ids/cd/5101-8092-4643-0998">https://example.com/ids/cd/5101-8092-4643-0998</a> preferredName @en: Department preferredName @de: Abteilung</p> <p>definition @en: Department in the company definition @de: Abteilung im Unternehmen</p> <p>description @en: Department in the company description @de: Abteilung im Unternehmen</p>	[String]	1
[Prop] Street	<p>[IRI] <a href="https://example.com/ids/cd/0712-8960-1501-5018">https://example.com/ids/cd/0712-8960-1501-5018</a> preferredName @en: Street preferredName @de: Straße</p> <p>definition @en: Street name and house number</p>	[String]	1

	<p>definition @de: Straßenname und Hausnummer</p> <p>description @en: Street name and house number description @de: Straßenname und Hausnummer</p>		
[Prop] ZIP	<p>[IRI] <a href="https://example.com/ids/cd/2333-7505-7088-6383">https://example.com/ids/cd/2333-7505-7088-6383</a></p> <p>preferredName @en: ZIP preferredName @de: Postleitzahl</p> <p>definition @en: Postal code of the house address definition @de: Postleitzahl der Hausanschrift</p> <p>description @en: Postal code of the house address description @de: Postleitzahl der Hausanschrift</p>	[String]	1
[Prop] POBox	<p>[IRI] <a href="https://example.com/ids/cd/6539-1432-3791-6633">https://example.com/ids/cd/6539-1432-3791-6633</a></p> <p>preferredName @en: PO box preferredName @de: Postfachnummer</p> <p>definition @en: Post office box number definition @de: Nummer des Postfachs</p> <p>description @en: Post office box number description @de: Nummer des Postfachs</p>	[String]	0..1
[Prop] ZIPBox	<p>[IRI] <a href="https://example.com/ids/cd/7786-3815-7881-2054">https://example.com/ids/cd/7786-3815-7881-2054</a></p> <p>preferredName @en: ZIP PO box preferredName @de: Postleitzahl Postfach</p> <p>definition @en: Postal code of the post office box definition @de: Postleitzahl des Postfachs</p> <p>description @en: Postal code of the post office box description @de: Postleitzahl des Postfachs</p>	[String]	0..1
[Prop] City	<p>[IRI] <a href="https://example.com/ids/cd/3778-9247-4142-3562">https://example.com/ids/cd/3778-9247-4142-3562</a></p> <p>preferredName @en: City preferredName @de: Ort</p> <p>definition @en: Location information about the company definition @de: Ortsangabe zum Unternehmen</p> <p>description @en: Location information about the company description @de: Ortsangabe zum Unternehmen</p>	[String]	1
[Prop] State	<p>[IRI] <a href="https://example.com/ids/cd/2671-0230-9760-7052">https://example.com/ids/cd/2671-0230-9760-7052</a></p> <p>preferredName @en: State preferredName @de: Bundesland</p> <p>definition @en: State definition @de: Bundesland</p> <p>description @en: State description @de: Bundesland</p>	[String]	0..1
[Prop] Country	<p>[IRI] <a href="https://example.com/ids/cd/5235-1914-8646-9725">https://example.com/ids/cd/5235-1914-8646-9725</a></p> <p>preferredName @en: Country preferredName @de: Land</p> <p>definition @en: Country definition @de: Land</p>	[String]	1

	<p>description @en: Country description @de: Land</p>		
[Prop] CountryCode	<p>[IRI] https://example.com/ids/cd/0971-1811-6008-5332 preferredName @en: Country code preferredName @de: Landescode</p> <p>definition @en: Two-digit country code according to ISO 3166 ALPHA-2 definition @de: Zweistelliger Ländescode gemäß ISO 3166 ALPHA-2</p> <p>description @en: Two-digit country code according to ISO 3166 ALPHA-2 description @de: Zweistelliger Ländescode gemäß ISO 3166 ALPHA-2</p>	[String]	1
[Prop] VAT_Id	<p>[IRI] https://example.com/ids/cd/9899-6402-7236-5784 preferredName @en: VAT Id preferredName @de: Umsatzsteuer ID</p> <p>definition @en: VAT Id of the business partner definition @de: Umsatzsteuer ID des Geschäftspartners</p> <p>description @en: VAT Id of the business partner description @de: Umsatzsteuer ID des Geschäftspartners</p>	[String]	0..1
[Prop] Tax_Number	<p>[IRI] https://example.com/ids/cd/2577-3889-4647-1561 preferredName @en: Tax number preferredName @de: Steuernummer</p> <p>definition @en: Tax number of the business partner definition @de: Steuernummer des Geschäftspartners</p> <p>description @en: Tax number of the business partner description @de: Steuernummer des Geschäftspartners</p>	[String]	0..1
[Prop] Phone	<p>[IRI] https://example.com/ids/cd/2207-1134-6236-8237 preferredName @en: Phone preferredName @de: Telefonnummer</p> <p>definition @en: Company central phone number definition @de: Zentrale Telefonnummer des Unternehmens</p> <p>description @en: Company central phone number description @de: Zentrale Telefonnummer des Unternehmens</p>	[String]	1
[Prop] Fax	<p>[IRI] https://example.com/ids/cd/6437-1513-2624-8890 preferredName @en: Fax preferredName @de: Faxnummer</p> <p>definition @en: Company central fax number definition @de: Zentrale Faxnummer des Unternehmens</p> <p>description @en: Company central fax number description @de: Zentrale Faxnummer des Unternehmens</p>	[String]	0..1
[Prop] Email	<p>[IRI] https://example.com/ids/cd/6494-4017-9371-2990 preferredName @en: Email preferredName @de: E-Mail Adresse</p> <p>definition @en: Company central email address</p>	[String]	1

	definition @de: Zentrale E-Mail-Adresse des Unternehmens		
	description @en: Company central email address		
	description @de: Zentrale E-Mail-Adresse des Unternehmens		

### 3.23 Properties of the SMC “ContactDetails”

Table 24: Properties of SMC “ContactDetails”

<b>idShort:</b>	ContactDetails		
<b>Class:</b>	SubmodelElementCollection		
<b>semanticId:</b>	[IRI] https://example.com/ids/cd/4718-1728-1436-5846		
<b>isCaseOf</b>	-		
<b>AllowDuplicates</b>	-		
<b>Parent</b>	ContactDetails		
<b>Explanation</b>	Information about a contact person@en, Informationen über einen Ansprechpartner@de		
<b>[SME type]</b>	<b>semanticId = [idType]value</b>	<b>[valueType]</b>	<b>card.</b>
<b>idShort</b>	<b>Description@en</b>	<b>example</b>	
[Ref] ContactInformation	[IRI] https://example.com/ids/cd/7444-1289-7990-9565 preferredName @en: Contact information preferredName @de: Kontaktinformationen  definition @en: Reference to the submodel ContactInformation definition @de: Referenz auf das Teilmodell ContactInformation  description @en: Reference to the submodel ContactInformation description @de: Referenz auf das Teilmodell ContactInformation	[-]	1

### 3.24 Properties of the SMC “CostCentersList”

Table 25: Properties of SMC “CostCentersList”

<b>idShort:</b>	CostCentersList		
<b>Class:</b>	SubmodelElementCollection		
<b>semanticId:</b>	[IRI] https://example.com/ids/cd/6671-3011-2433-1935		
<b>isCaseOf</b>	-		
<b>AllowDuplicates</b>	-		
<b>Parent</b>	CostCentersList		
<b>Explanation</b>	List of cost centers to be referenced in the business document. The referencing can be done in the general part or for each item separately.@en, Liste von Kostenstellen auf die im Geschäftsdokument referenziert werden sollen. Die Referenzierung kann im allgemeinen Teil oder für jedes Item separat erfolgen.@de		

[SME type]	semanticId = [idType]value	[valueType]	card.
<b>idShort</b>	<b>Description@en</b>	<b>example</b>	
[SMC] CostCenter	[IRI] https://example.com/ids/cd/0208-7319-7094-3793 preferredName @en: Cost center preferredName @de: Kostenstelle  definition @en: Information about a cost center. The referencing can be done in the general part or for each item separately. definition @de: Informationen zu einer Kostenstelle. Die Referenzierung kann im allgemeinen Teil oder für jedes Item separat erfolgen.  description @en: Information about a cost center. The referencing can be done in the general part or for each item separately. description @de: Informationen zu einer Kostenstelle. Die Referenzierung kann im allgemeinen Teil oder für jedes Item separat erfolgen.	[-] 10 elements	1..*

### 3.25 Properties of the SMC “CostCenter”

Table 26: Properties of SMC “CostCenter”

<b>idShort:</b>	CostCenter		
<b>Class:</b>	SubmodelElementCollection		
<b>semanticId:</b>	[IRI] https://example.com/ids/cd/0208-7319-7094-3793		
<b>isCaseOf</b>	-		
<b>AllowDuplicates</b>	-		
<b>Parent</b>	CostCenter		
<b>Explanation</b>	Information about a cost center. The referencing can be done in the general part or for each item separately. @en, Informationen zu einer Kostenstelle. Die Referenzierung kann im allgemeinen Teil oder für jedes Item separat erfolgen. @de		
[SME type]	semanticId = [idType]value	[valueType]	card.
<b>idShort</b>	<b>Description@en</b>	<b>example</b>	
[Prop] CostCenterCode	[IRI] https://example.com/ids/cd/8571-6265-1372-6165 preferredName @en: Cost center code preferredName @de: Code der Kostenstelle  definition @en: Identifying code for the cost center definition @de: Identifizierender Code der Kostenstelle  description @en: Identifying code for the cost center description @de: Identifizierender Code der Kostenstelle	[String]	0..1
[Prop] CostCenterName	[IRI] https://example.com/ids/cd/5565-9390-5216-7303 preferredName @en: Cost center name preferredName @de: Name der Kostenstelle  definition @en: Name of the cost center definition @de: Bezeichnung der Kostenstelle	[String]	1

	<p>description @en: Name of the cost center description @de: Bezeichnung der Kostenstelle</p>		
[Prop] CostReasonCode	<p>[IRI] <a href="https://example.com/ids/cd/5168-1311-0319-9617">https://example.com/ids/cd/5168-1311-0319-9617</a> preferredName @en: Cost reason code preferredName @de: Code des Kostengrunds</p> <p>definition @en: Identifying code for the cost reason definition @de: Identifizierender Code des Kostengrunds</p> <p>description @en: Identifying code for the cost reason description @de: Identifizierender Code des Kostengrunds</p>	[String]	0..1
[Prop] CostReasonName	<p>[IRI] <a href="https://example.com/ids/cd/3465-6074-9658-1102">https://example.com/ids/cd/3465-6074-9658-1102</a> preferredName @en: Name of the cost reason preferredName @de: Name des Kostengrundes</p> <p>definition @en: Name of the Cost Reason definition @de: Name des Kostengrundes</p> <p>description @en: Name of the Cost Reason description @de: Name des Kostengrundes</p>	[String]	0..1
[Prop] CostCarrierCode	<p>[IRI] <a href="https://example.com/ids/cd/1502-0566-8852-4678">https://example.com/ids/cd/1502-0566-8852-4678</a> preferredName @en: Cost carrier code preferredName @de: Code des Kostenträgers</p> <p>definition @en: Identifying code for the cost carrier definition @de: Identifizierender Code des Kostenträgers</p> <p>description @en: Identifying code for the cost carrier description @de: Identifizierender Code des Kostenträgers</p>	[String]	0..1
[Prop] CostCarrierName	<p>[IRI] <a href="https://example.com/ids/cd/9656-7632-8106-6289">https://example.com/ids/cd/9656-7632-8106-6289</a> preferredName @en: Name of the cost carrier preferredName @de: Name des Kostenträgers</p> <p>definition @en: Name of the cost carrier definition @de: Name des Kostenträgers</p> <p>description @en: Name of the cost carrier description @de: Name des Kostenträgers</p>	[String]	0..1
[Prop] ProjectNumber	<p>[IRI] <a href="https://example.com/ids/cd/6025-9637-0933-6857">https://example.com/ids/cd/6025-9637-0933-6857</a> preferredName @en: Project number preferredName @de: Projektnummer</p> <p>definition @en: Project number definition @de: Projektnummer</p> <p>description @en: Project number description @de: Projektnummer</p>	[String]	0..1
[Prop] ProjectName	<p>[IRI] <a href="https://example.com/ids/cd/2633-0425-6816-8093">https://example.com/ids/cd/2633-0425-6816-8093</a> preferredName @en: Project name preferredName @de: Projektname</p> <p>definition @en: Project name definition @de: Projektname</p>	[String]	0..1



	description @en: Project name description @de: Projektname		
[Prop] BillingCenterCode	[IRI] https://example.com/ids/cd/0911-5554-2453-6362 preferredName @en: Billing center code preferredName @de: Code der Abrechnungstelle  definition @en: Identifying code for the billing center definition @de: Identifizierender Code der Abrechnungstelle  description @en: Identifying code for the billing center description @de: Identifizierender Code der Abrechnungstelle	[String]	0..1
[Prop] BillingCenterName	[IRI] https://example.com/ids/cd/0456-9793-0372-6679 preferredName @en: Billing center name preferredName @de: Name der Abrechnungstelle  definition @en: Name of the billing center definition @de: Name der Abrechnungsstelle  description @en: Name of the billing center description @de: Name der Abrechnungsstelle	[String]	0..1

### 3.26 Properties of the SMC “AttachedMediaList”

Table 27: Properties of SMC “AttachedMediaList”

<b>idShort:</b>	AttachedMediaList		
<b>Class:</b>	SubmodelElementCollection		
<b>semanticId:</b>	[IRI] https://example.com/ids/cd/2839-4873-8128-5745		
<b>isCaseOf</b>	-		
<b>AllowDuplicates</b>	-		
<b>Parent</b>	AttachedMediaList		
<b>Explanation</b>	Media attached to the business document, e.g. component sketch, CAD data, to be referenced in the business document. The referencing can be done in the general part or for each item separately. @en, Dem Geschäftsdokument angefügte Medien, z.B. Bauteilskizze, CAD-Daten, auf die im Geschäftsdokument referenziert werden sollen. Die Referenzierung kann im allgemeinen Teil oder für jedes Item separat erfolgen. @de		
<b>[SME type]</b>	<b>semanticId = [idType]value</b>	<b>[valueType]</b>	<b>card.</b>
<b>idShort</b>	<b>Description@en</b>	<b>example</b>	
[SMC] Media	[IRI] https://example.com/ids/cd/9426-4755-6948-1625 preferredName @en: Media preferredName @de: Medium  definition @en: Information about an attached multi media file. The referencing can be done in the general part or for each item separately. definition @de: Informationen zu einer angefügten multimedialen Datei. Die Referenzierung kann im allgemeinen Teil oder für jedes Item separat erfolgen.  description @en: Information about an attached multi media file. The	[-] 4 elements	0..*

	referencing can be done in the general part or for each item separately. description @de: Informationen zu einer angefügten multimedialen Datei. Die Referenzierung kann im allgemeinen Teil oder für jedes Item separat erfolgen.		
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### 3.27 Properties of the SMC “Media”

Table 28: Properties of SMC “Media”

<b>idShort:</b>	Media		
<b>Class:</b>	SubmodelElementCollection		
<b>semanticId:</b>	[IRI] https://example.com/ids/cd/9426-4755-6948-1625		
<b>isCaseOf</b>	-		
<b>AllowDuplicates</b>	-		
<b>Parent</b>	Media		
<b>Explanation</b>	Information about an attached multi media file. The referencing can be done in the general part or for each item separately. @en, Informationen zu einer angefügten multimedialen Datei. Die Referenzierung kann im allgemeinen Teil oder für jedes Item separat erfolgen. @de		
<b>[SME type]</b>	<b>semanticId = [idType]value</b>	<b>[valueType]</b>	<b>card.</b>
<b>idShort</b>	<b>Description @en</b>	<b>example</b>	
[Prop] File	[IRI] https://example.com/ids/cd/3858-8741-3610-0675 preferredName @en: File preferredName @de: Datei  definition @en: Link to the multimedia file definition @de: Link zu der Multimediatei  description @en: Link to the multimedia file description @de: Link zu der Multimediatei	[AnyUri]	0..1
[Prop] MimeType	[IRI] https://example.com/ids/cd/4346-0784-7719-2900 preferredName @en: File type preferredName @de: Datei Typ  definition @en: MIME type of the multimedia file definition @de: MIME-typ der Multimediatei  description @en: MIME type of the multimedia file description @de: MIME-typ der Multimediatei	[String]	0..1
[Prop] MimeTypePurpose	[IRI] https://example.com/ids/cd/5307-1241-7657-2764 preferredName @en: File purpose preferredName @de: Zweck der Datei  definition @en: Purpose of the file, e.g. white paper, standard, hazard document definition @de: Zweck der Datei, z.B. Whitepaper, Norm, Gefahrendokument  description @en: Purpose of the file, e.g. white paper, standard, hazard document	[String]	0..1

	description @de: Zweck der Datei, z.B. Whitepaper, Norm, Gefahrendokument		
[Prop] Comment	[IRI] https://example.com/ids/cd/3376-7127-3767-1631 preferredName @en: Comment preferredName @de: Kommentar  definition @en: Comment or description of the multimedia file definition @de: Kommentar oder Beschreibung der Multimediadatei  description @en: Comment or description of the multimedia file description @de: Kommentar oder Beschreibung der Multimediadatei	[String]	0..1

### 3.28 Properties of the SMC “OrderItemList”

Table 29: Properties of SMC “OrderItemList”

<b>idShort:</b>	OrderItemList		
<b>Class:</b>	SubmodelElementCollection		
<b>semanticId:</b>	[IRI] https://example.com/ids/cd/9272-7067-8281-3590		
<b>isCaseOf</b>	-		
<b>AllowDuplicates</b>	-		
<b>Parent</b>	OrderItemList		
<b>Explanation</b>	Bill of material of order@en,Stückliste zur Bestellung@de		
<b>[SME type]</b>	<b>semanticId = [idType]value</b>	<b>[valueType]</b>	<b>card.</b>
<b>idShort</b>	<b>Description@en</b>	<b>example</b>	
[SMC] OrderItem	[IRI] https://example.com/ids/cd/0656-6005-6121-4560 preferredName @en: Order item preferredName @de: Bestelltes Element  definition @en: Information about an item or line of the order definition @de: Informationen zu einem Element, auch Item oder Line der Bestellung  description @en: Information about an item or line of the order description @de: Informationen zu einem Element, auch Item oder Line der Bestellung	[-] 46 elements	1..*

### 3.29 Properties of the SMC “OrderItem”

Table 30: Properties of SMC “OrderItem”

<b>idShort:</b>	OrderItem		
<b>Class:</b>	SubmodelElementCollection		
<b>semanticId:</b>	[IRI] https://example.com/ids/cd/0656-6005-6121-4560		
<b>isCaseOf</b>	-		

<b>AllowDuplicates</b>	-		
<b>Parent</b>	OrderItem		
<b>Explanation</b>	Information about an item or line of the order@en, Informationen zu einem Element, auch Item oder Line der Bestellung@de		
<b>[SME type]</b>	<b>semanticId = [idType]value</b>	<b>[valueType]</b>	<b>card.</b>
<b>idShort</b>	<b>Description@en</b>	<b>example</b>	
[Prop] RefPurchaseRequestNotificationItem	[IRI] https://example.com/ids/cd/5446-1209-7372-1910 preferredName @en: Item ID purchase request preferredName @de: Element ID Bestellanfrage  definition @en: ID of the Item in the purchase request definition @de: ID des Elements in der Bestellanfrage  description @en: ID of the Item in the purchase request description @de: ID des Elements in der Bestellanfrage	[String]	0..1
[Prop] RefQuotationItemID	[IRI] https://example.com/ids/cd/8859-6093-8857-2756 preferredName @en: Item ID quotation preferredName @de: Element ID Angebot  definition @en: ID of the Item in the quotation definition @de: ID des Elements im Angebot  description @en: ID of the Item in the quotation description @de: ID des Elements im Angebot	[String]	0..1
[Prop] OrderItemID	[IRI] https://example.com/ids/cd/9310-7626-1278-1738 preferredName @en: Item ID order preferredName @de: Element ID Order  definition @en: ID of the Item in the order definition @de: ID des Elements in der Bestellung  description @en: ID of the Item in the order description @de: ID des Elements in der Bestellung	[String]	0..1
[Ref] AASItemReference	[IRI] https://example.com/ids/cd/1252-0729-2673-4432 preferredName @en: AAS item reference preferredName @de: AAS Elementreferenz  definition @en: Reference to the AAS of the item if it is described in another AAS definition @de: Referenz auf die AAS des Items, falls dieses in einer anderen AAS beschrieben ist  description @en: Reference to the AAS of the item if it is described in another AAS description @de: Referenz auf die AAS des Items, falls dieses in einer anderen AAS beschrieben ist	[-]	0..1
[Prop] ItemID	[IRI] https://example.com/ids/cd/1524-7461-7928-7972 preferredName @en: Item ID preferredName @de: Element ID  definition @en: Unique ID of the item, e.g. position number or position line	[String]	1

	<p>definition @de: Eindeutige ID des Items, z.B. Positionsnummer oder Positionszeile</p> <p>description @en: Unique ID of the item, e.g. position number or position line</p> <p>description @de: Eindeutige ID des Items, z.B. Positionsnummer oder Positionszeile</p>		
[Prop] ParentItemID	<p>[IRI] <a href="https://example.com/ids/cd/7078-8943-3692-3027">https://example.com/ids/cd/7078-8943-3692-3027</a></p> <p>preferredName @en: Parent item ID</p> <p>preferredName @de: ID des übergeordneten Elements</p> <p>definition @en: ID of the parent item or line</p> <p>definition @de: ID des übergeordneten Elements</p> <p>description @en: ID of the parent item or line</p> <p>description @de: ID des übergeordneten Elements</p>	[String]	0..1
[Prop] ItemClassification	<p>[IRI] <a href="https://example.com/ids/cd/0641-6451-4618-9078">https://example.com/ids/cd/0641-6451-4618-9078</a></p> <p>preferredName @en: classification</p> <p>preferredName @de: Klassifikation</p> <p>definition @en: classification of the item: material, wages or service</p> <p>definition @de: Art des Eintrags: Material, Lohn oder Dienstleistung</p> <p>description @en: classification of the item: material, wages or service</p> <p>description @de: Art des Eintrags: Material, Lohn oder Dienstleistung</p>	[String]	0..1
[Prop] ItemType	<p>[IRI] <a href="https://example.com/ids/cd/7177-2251-4225-9208">https://example.com/ids/cd/7177-2251-4225-9208</a></p> <p>preferredName @en: Item type</p> <p>preferredName @de: Element Typ</p> <p>definition @en: Specifies the type of item. Possible values are: composite: Identifies an item group. item: independent line item. lean: no child item is expected for the line</p> <p>definition @de: Gibt den Typ des Artikels an. Mögliche Werte: composite: Identifiziert eine Artikelgruppe. item: unabhängiger Artikel. lean: Es wird kein untergeordnetes Element erwartet</p> <p>description @en: Specifies the type of item. Possible values are: composite: Identifies an item group. item: independent line item. lean: no child item is expected for the line</p> <p>description @de: Gibt den Typ des Artikels an. Mögliche Werte: composite: Identifiziert eine Artikelgruppe. item: unabhängiger Artikel. lean: Es wird kein untergeordnetes Element erwartet</p>	[String]	0..1
[Prop] ItemStatus	<p>[IRI] <a href="https://example.com/ids/cd/7807-7720-3097-0571">https://example.com/ids/cd/7807-7720-3097-0571</a></p> <p>preferredName @en: Item status</p> <p>preferredName @de: Elementstatus</p> <p>definition @en: Status of the item (IsClosed, IsOpen, IsDeleted)</p>	[String]	0..1

	<p>definition @de: Status des Items (IsClosed, IsOpen, IsDeleted)</p> <p>description @en: Status of the item (IsClosed, IsOpen, IsDeleted)</p> <p>description @de: Status des Items (IsClosed, IsOpen, IsDeleted)</p>		
<p>[Prop] ServiceType</p>	<p>[IRI] <a href="https://example.com/ids/cd/1422-5969-6378-1313">https://example.com/ids/cd/1422-5969-6378-1313</a></p> <p>preferredName @en: ServiceType</p> <p>preferredName @de: Service Typ</p> <p>definition @en: Represents the type of the service line. Possible values: standard: Standard service. blanket: Blanket service for which you don't specify a quantity. It is settled as a lump sum. contingency: A service that is not absolutely necessary to perform the order. openquantity: A service for which the sold-to party requires that the bidder offer the quantity for a specific partial service. information: The line type does not describe a service and is for information purposes only. definition @de: Stellt den Typ der Servicezeile dar. Mögliche Werte: standard: Standarddienst. blanket: Pauschalservice, für den Sie keine Menge angeben. Es wird als abgerechnet eine Pauschalsumme. contingency: Eventualverbindlichkeit, eine Leistung, die zur Ausführung des Auftrags nicht unbedingt erforderlich ist. openquantity: Eine Dienstleistung, für die</p> <p>description @en: Represents the type of the service line. Possible values: standard: Standard service. blanket: Blanket service for which you don't specify a quantity. It is settled as a lump sum. contingency: A service that is not absolutely necessary to perform the order. openquantity: A service for which the sold-to party requires that the bidder offer the quantity for a specific partial service. information: The line type does not describe a service and is for information purposes only. description @de: Stellt den Typ der Servicezeile dar. Mögliche Werte: standard: Standarddienst. blanket: Pauschalservice, für den Sie keine Menge angeben. Es wird als abgerechnet eine Pauschalsumme. contingency: Eventualverbindlichkeit, eine Leistung, die zur Ausführung des Auftrags nicht unbedingt erforderlich</p>	[String]	0..1

	ist. openquantity: Eine Dienstleistung, für die		
[Prop] TermsOfDelivery	[IRI] <a href="https://example.com/ids/cd/9342-4705-7165-2098">https://example.com/ids/cd/9342-4705-7165-2098</a> preferredName @en: Terms of delivery preferredName @de: Zustellbedingungen  definition @en: Contains additional information for transportation of the shipment definition @de: Enthält zusätzliche Informationen zum Transport der Sendung  description @en: Contains additional information for transportation of the shipment description @de: Enthält zusätzliche Informationen zum Transport der Sendung	[AnyUri]	0..1
[Prop] Agreement	[IRI] <a href="https://example.com/ids/cd/9905-1897-2217-0546">https://example.com/ids/cd/9905-1897-2217-0546</a> preferredName @en: Agreement preferredName @de: Vereinbarung  definition @en: Additional Agreement definition @de: Zusätzliche Vereinbarung  description @en: Additional Agreement description @de: Zusätzliche Vereinbarung	[AnyUri]	0..1
[Prop] OrderQuantity	[IRI] <a href="https://example.com/ids/cd/0153-3716-2451-1483">https://example.com/ids/cd/0153-3716-2451-1483</a> preferredName @en: Order Quantity preferredName @de: Bestellmenge  definition @en: Quantity delivered definition @de: Liefermenge  description @en: Quantity delivered description @de: Liefermenge	[Float]	1
[Prop] OrderQuantityUnit	[IRI] <a href="https://example.com/ids/cd/1280-8461-5943-9975">https://example.com/ids/cd/1280-8461-5943-9975</a> preferredName @en: Order quantity unit preferredName @de: Einheit Bestellmenge  definition @en: Unit in which the product can be ordered; only multiples of this unit can be used be ordered. definition @de: Einheit, in der das Produkte bestellt werden kann; es können nur Vielfache dieser Einheit bestellt werden.  description @en: Unit in which the product can be ordered; only multiples of this unit can be used be ordered. description @de: Einheit, in der das Produkte bestellt werden kann; es können nur Vielfache dieser Einheit bestellt werden.	[String]	1
[Prop] ContentQuantity	[IRI] <a href="https://example.com/ids/cd/3923-5355-0205-9325">https://example.com/ids/cd/3923-5355-0205-9325</a> preferredName @en: Content quantity preferredName @de: Inhaltsmenge  definition @en: Content quantity definition @de: Inhaltsmenge	[Float]	1

	<p>description @en: Content quantity description @de: Inhaltsmenge</p>		
[Prop] ContentQuantityUnit	<p>[IRI] <a href="https://example.com/ids/cd/7830-5126-7896-5853">https://example.com/ids/cd/7830-5126-7896-5853</a> preferredName @en: Content quantity unit preferredName @de: Einheit Inhaltsmengenangabe</p> <p>definition @en: Unit of the content quantity definition @de: Einheit der Inhaltsgrößenangabe</p> <p>description @en: Unit of the content quantity description @de: Einheit der Inhaltsgrößenangabe</p>	[String]	1
[Prop] NumberOfContentUnitsPerOrderUnit	<p>[IRI] <a href="https://example.com/ids/cd/4738-1052-8365-0777">https://example.com/ids/cd/4738-1052-8365-0777</a> preferredName @en: Number of content units per order quantity unit preferredName @de: Anzahl Inhaltsmengeneinheiten pro Bestellmengeneinheit</p> <p>definition @en: Number of content units per order quantity unit definition @de: Anzahl Inhaltsmengeneinheiten pro Bestellmengeneinheit</p> <p>description @en: Number of content units per order quantity unit description @de: Anzahl Inhaltsmengeneinheiten pro Bestellmengeneinheit</p>	[Float]	0..1
[Prop] ContentQuantityInContentUnits	<p>[IRI] <a href="https://example.com/ids/cd/9508-7167-8861-1611">https://example.com/ids/cd/9508-7167-8861-1611</a> preferredName @en: Content quantity per content unit preferredName @de: Inhaltsmenge pro Inhaltsmengeneinheit</p> <p>definition @en: Content quantity per content units definition @de: Inhaltsmenge pro Inhaltsmengeneinheit</p> <p>description @en: Content quantity per content units description @de: Inhaltsmenge pro Inhaltsmengeneinheit</p>	[Float]	0..1
[Prop] UnitOfContentQuantityInContentUnit	<p>[IRI] <a href="https://example.com/ids/cd/6746-4506-7624-8173">https://example.com/ids/cd/6746-4506-7624-8173</a> preferredName @en: Unit of content quantity in content unit preferredName @de: Einheit für die Inhaltsmenge in Inhaltseinheit</p> <p>definition @en: SI-Einheit für die Angabe der Inhaltsmenge pro Inhaltsmengeneinheit definition @de: SI-Einheit für die Angabe der Inhaltsmenge pro Inhaltsmengeneinheit</p> <p>description @en: SI-Einheit für die Angabe der Inhaltsmenge pro Inhaltsmengeneinheit description @de: SI-Einheit für die Angabe der Inhaltsmenge pro Inhaltsmengeneinheit</p>	[String]	0..1
[Prop] AASRequested	<p>[IRI] <a href="https://example.com/ids/cd/5161-4807-9731-2754">https://example.com/ids/cd/5161-4807-9731-2754</a> preferredName @en: Item AAS requested preferredName @de: Artikel AAS angefordert</p>	[Boolean]	0..1



	<p>definition @en: Boolean variable that indicates whether a digital twin in the form of an AAS is requested for the item.</p> <p>definition @de: Boolsche Variable, die angibt, ob zum Artikel ein digitaler Zwilling in Form einer AAS angefordert wird.</p> <p>description @en: Boolean variable that indicates whether a digital twin in the form of an AAS is requested for the item.</p> <p>description @de: Boolsche Variable, die angibt, ob zum Artikel ein digitaler Zwilling in Form einer AAS angefordert wird.</p>		
[Prop] DigitalProductPassRequired	<p>[IRI] <a href="https://example.com/ids/cd/0659-5597-8463-8655">https://example.com/ids/cd/0659-5597-8463-8655</a></p> <p>preferredName @en: Digital product passport requested</p> <p>preferredName @de: Digitaler Produktpass erforderlich</p> <p>definition @en: Boolean value indicating whether a digital product passport is required</p> <p>definition @de: Boolsche Wert der Angibt ob ein digitaler Produktpass erforderlich ist</p> <p>description @en: Boolean value indicating whether a digital product passport is required</p> <p>description @de: Boolsche Wert der Angibt ob ein digitaler Produktpass erforderlich ist</p>	[Boolean]	0..1
[Prop] ChainOfCustodyProofRequested	<p>[IRI] <a href="https://example.com/ids/cd/7196-9217-0521-4845">https://example.com/ids/cd/7196-9217-0521-4845</a></p> <p>preferredName @en: Chain of custody proof required</p> <p>preferredName @de: Lieferkettennachweis erforderlich</p> <p>definition @en: Boolean value indicating whether proof of custody chain is required</p> <p>definition @de: Boolscher Wert der angibt, ob ein Lieferkettennachweis erforderlich ist</p> <p>description @en: Boolean value indicating whether proof of custody chain is required</p> <p>description @de: Boolscher Wert der angibt, ob ein Lieferkettennachweis erforderlich ist</p>	[Boolean]	0..1
[Prop] TollDocumentsRequired	<p>[IRI] <a href="https://example.com/ids/cd/1315-5485-4508-5182">https://example.com/ids/cd/1315-5485-4508-5182</a></p> <p>preferredName @en: Toll documents required</p> <p>preferredName @de: Zolldokumente erforderlich</p> <p>definition @en: Boolean value, indicating whether toll documents are required</p> <p>definition @de: Boolscher Wert der angibt, ob Zolldokumente erforderlich ist</p> <p>description @en: Boolean value, indicating whether toll documents are required</p> <p>description @de: Boolscher Wert der angibt, ob Zolldokumente erforderlich ist</p>	[Boolean]	0..1
[Ref] ReferenceSubmodelTollDocuments	<p>[IRI] <a href="https://example.com/ids/cd/9901-9710-8091-5659">https://example.com/ids/cd/9901-9710-8091-5659</a></p> <p>preferredName @en: Reference to submodell toll document</p>	[-]	0..N

	<p>preferredName @de: Referenz auf Teilmodell Zolldokument</p> <p>definition @en: Reference to submodel which describes a toll document definition @de: Referenz auf ein Teilmodell, das ein Zolldokument beschreibt</p> <p>description @en: Reference to submodel which describes a toll document description @de: Referenz auf ein Teilmodell, das ein Zolldokument beschreibt</p>		
[Prop] NetPrice	<p>[IRI] <a href="https://example.com/ids/cd/3864-8722-0291-8023">https://example.com/ids/cd/3864-8722-0291-8023</a> preferredName @en: Net price preferredName @de: Nettopreis Element</p> <p>definition @en: Der Gesamtnettobetrag für den Eintrag definition @de: The total net amount for the line item</p> <p>description @en: Der Gesamtnettobetrag für den Eintrag description @de: The total net amount for the line item</p>	[Float]	0..1
[Prop] GrossPrice	<p>[IRI] <a href="https://example.com/ids/cd/8210-0156-9703-9868">https://example.com/ids/cd/8210-0156-9703-9868</a> preferredName @en: Gross price preferredName @de: Bruttopreis Element</p> <p>definition @en: Der Gesamtbruttobetrag für den Eintrag definition @de: The total gross amount for the line item</p> <p>description @en: Der Gesamtbruttobetrag für den Eintrag description @de: The total gross amount for the line item</p>	[Float]	0..1
[SMC] CarbonFootprint	<p>[IRI] <a href="https://example.com/ids/cd/7946-6796-7075-0011">https://example.com/ids/cd/7946-6796-7075-0011</a> preferredName @en: Information on carbon footprint preferredName @de: Informationen zum CO2-Fussabdruck</p> <p>definition @en: Information on carbon footprint definition @de: Informationen zum CO2-Fussabdruck</p> <p>description @en: Information on carbon footprint description @de: Informationen zum CO2-Fussabdruck</p>	[-] 6 elements	0..1
[SMC] ProductPrice	<p>[IRI] <a href="https://example.com/ids/cd/3275-4793-0126-5699">https://example.com/ids/cd/3275-4793-0126-5699</a> preferredName @en: Product price preferredName @de: Produktpreis</p> <p>definition @en: Information on product or article price definition @de: Angaben zum Produktpreis bzw. Artikelpreis</p> <p>description @en: Information on product or article price description @de: Angaben zum Produktpreis bzw. Artikelpreis</p>	[-] 10 elements	1
[Prop] NetPrice	<p>[IRI] <a href="https://example.com/ids/cd/3864-8722-0291-8023">https://example.com/ids/cd/3864-8722-0291-8023</a> preferredName @en: Net price preferredName @de: Nettopreis Element</p> <p>definition @en: Der Gesamtnettobetrag für den Eintrag</p>	[Float]	0..1

	<p>definition @de: The total net amount for the line item</p> <p>description @en: Der Gesamtnettobetrag für den Eintrag description @de: The total net amount for the line item</p>		
[Prop] GrossPrice	<p>[IRI] <a href="https://example.com/ids/cd/8210-0156-9703-9868">https://example.com/ids/cd/8210-0156-9703-9868</a> preferredName @en: Gross price preferredName @de: Bruttopreis Element</p> <p>definition @en: Der Gesamtbruttobetrag für den Eintrag definition @de: The total gross amount for the line item</p> <p>description @en: Der Gesamtbruttobetrag für den Eintrag description @de: The total gross amount for the line item</p>	[Float]	0..1
[Prop] PartialShipmentAllowed	<p>[IRI] <a href="https://example.com/ids/cd/0880-1787-5127-4400">https://example.com/ids/cd/0880-1787-5127-4400</a> preferredName @en: Partial shipment allowed preferredName @de: Teillieferung erlaubt</p> <p>definition @en: Flag to indicate whether partial shipment is allowed. If allowed the value is TRUE, FALSE otherwise. The flag is binding for the order. definition @de: Flag, das angibt, ob Teillieferungen zulässig sind. Wenn zulässig, ist der Wert TRUE, andernfalls FALSE. Dieses Flag ist für die Bestellung verbindlich.</p> <p>description @en: Flag to indicate whether partial shipment is allowed. If allowed the value is TRUE, FALSE otherwise. The flag is binding for the order. description @de: Flag, das angibt, ob Teillieferungen zulässig sind. Wenn zulässig, ist der Wert TRUE, andernfalls FALSE. Dieses Flag ist für die Bestellung verbindlich.</p>	[Boolean]	0..1
[Prop] IsItemCompletelyDelivered	<p>[IRI] <a href="https://example.com/ids/cd/2566-8832-9007-7695">https://example.com/ids/cd/2566-8832-9007-7695</a> preferredName @en: Delivered completely preferredName @de: Vollständig geliefert</p> <p>definition @en: Is the item delivered complete? definition @de: Wird der Artikel vollständig geliefert?</p> <p>description @en: Is the item delivered complete? description @de: Wird der Artikel vollständig geliefert?</p>	[Boolean]	0..1
[SMC] PartialDeliveryList	<p>[IRI] <a href="https://example.com/ids/cd/2956-7788-3383-6410">https://example.com/ids/cd/2956-7788-3383-6410</a> preferredName @en: Partial shipment list preferredName @de: List der Teillieferungen</p> <p>definition @en: List for defining partial deliveries of an item definition @de: Liste zur Definition von Teillieferungen eines Artikels</p> <p>description @en: List for defining partial deliveries of an item description @de: Liste zur Definition von Teillieferungen eines Artikels</p>	[-] 1 elements	0..1

<p>[Prop] TermsOfDelivery</p>	<p>[IRI] <a href="https://example.com/ids/cd/9342-4705-7165-2098">https://example.com/ids/cd/9342-4705-7165-2098</a>  preferredName @en: Terms of delivery  preferredName @de: Zustellbedingungen</p> <p>definition @en: Contains additional information for transportation of the shipment  definition @de: Enthält zusätzliche Informationen zum Transport der Sendung</p> <p>description @en: Contains additional information for transportation of the shipment  description @de: Enthält zusätzliche Informationen zum Transport der Sendung</p>	<p>[AnyUri]</p>	<p>0..1</p>
<p>[Prop] Agreement</p>	<p>[IRI] <a href="https://example.com/ids/cd/9905-1897-2217-0546">https://example.com/ids/cd/9905-1897-2217-0546</a>  preferredName @en: Agreement  preferredName @de: Vereinbarung</p> <p>definition @en: Additional Agreement  definition @de: Zusätzliche Vereinbarung</p> <p>description @en: Additional Agreement  description @de: Zusätzliche Vereinbarung</p>	<p>[AnyUri]</p>	<p>0..1</p>
<p>[Prop] Remarks</p>	<p>[IRI] <a href="https://example.com/ids/cd/6398-0224-8364-6622">https://example.com/ids/cd/6398-0224-8364-6622</a>  preferredName @en: Remarks  preferredName @de: Anmerkungen</p> <p>definition @en: Remark related to a business document  definition @de: Bemerkung zu einem Geschäftsdokument</p> <p>description @en: Remark related to a business document  description @de: Bemerkung zu einem Geschäftsdokument</p>	<p>[String]</p>	<p>1..*</p>
<p>[Ref] CatalogueRef</p>	<p>[IRI] <a href="https://example.com/ids/cd/3622-8956-5425-8824">https://example.com/ids/cd/3622-8956-5425-8824</a>  preferredName @en: Catalogue reference  preferredName @de: Referenz auf Katalog</p> <p>definition @en: Reference to a catalog entry defined in the SMC CatalogReferenceList  definition @de: Referenz auf einen Katalogeintrag, der in der SMC CatalogueReferenceList definiert ist. Kann im allgemeinen Teil oder im Item referenziert werden.</p> <p>description @en: Reference to a catalog entry defined in the SMC CatalogReferenceList  description @de: Referenz auf einen Katalogeintrag, der in der SMC CatalogueReferenceList definiert ist. Kann im allgemeinen Teil oder im Item referenziert werden.</p>	<p>[-]</p>	<p>0..1</p>
<p>[Ref] IncotermsRef</p>	<p>[IRI] <a href="https://example.com/ids/cd/9733-9492-6042-4410">https://example.com/ids/cd/9733-9492-6042-4410</a>  preferredName @en: Incoterms reference  preferredName @de: Referenz auf Incoterms</p> <p>definition @en: Reference to Incoterms provisions defined in the SMC IncotermsList. Can be referenced in the general part or in the item.</p>	<p>[-]</p>	<p>0..1</p>

	<p>definition @de: Referenz auf Incotermsbestimmungen, die in der SMC IncotermsList definiert sind. Kann im allgemeinen Teil oder im Item referenziert werden.</p> <p>description @en: Reference to Incoterms provisions defined in the SMC IncotermsList. Can be referenced in the general part or in the item.</p> <p>description @de: Referenz auf Incotermsbestimmungen, die in der SMC IncotermsList definiert sind. Kann im allgemeinen Teil oder im Item referenziert werden.</p>		
[Ref] BusinessPartyRef	<p>[IRI] <a href="https://example.com/ids/cd/9041-5445-4967-4221">https://example.com/ids/cd/9041-5445-4967-4221</a></p> <p>preferredName @en: Shipment parties reference</p> <p>preferredName @de: Referenz auf Sendungsparteien</p> <p>definition @en: Reference to a business party, e.g. shipment company defined in the SMC PartiesList. Can be referenced in the general part or in the item. Can be referenced in the general part or in the item.</p> <p>definition @de: Referenz auf eine Geschäftspartei, z.B. Lieferunternehmen, die in der SMC PartiesList definiert ist. Kann im allgemeinen Teil oder im Item referenziert werden.</p> <p>description @en: Reference to a business party, e.g. shipment company defined in the SMC PartiesList. Can be referenced in the general part or in the item. Can be referenced in the general part or in the item.</p> <p>description @de: Referenz auf eine Geschäftspartei, z.B. Lieferunternehmen, die in der SMC PartiesList definiert ist. Kann im allgemeinen Teil oder im Item referenziert werden.</p>	[-]	0..*
[Ref] InternationalRestrictionsRef	<p>[IRI] <a href="https://example.com/ids/cd/5413-5482-9350-2005">https://example.com/ids/cd/5413-5482-9350-2005</a></p> <p>preferredName @en: International restrictions reference</p> <p>preferredName @de: Referenz auf internationale Restriktionen</p> <p>definition @en: Reference to international restrictions defined in the SMC InternationalRestrictionsList. Can be referenced in the general part or in the item.</p> <p>definition @de: Referenz auf internationale Beschränkungen, die in der SMC InternationalRestrictionsList definiert sind. Kann im allgemeinen Teil oder im Item referenziert werden.</p> <p>description @en: Reference to international restrictions defined in the SMC InternationalRestrictionsList. Can be referenced in the general part or in the item.</p> <p>description @de: Referenz auf internationale Beschränkungen, die in der SMC InternationalRestrictionsList definiert sind. Kann im allgemeinen Teil oder im Item referenziert werden.</p>	[-]	0..*
[Ref] SpecialTreatmentClassRef	<p>[IRI] <a href="https://example.com/ids/cd/2547-4480-0898-2903">https://example.com/ids/cd/2547-4480-0898-2903</a></p> <p>preferredName @en: Special treatment class reference</p> <p>preferredName @de: Referenz auf spezielle Warenbehandlung</p> <p>definition @en: Reference to a special treatment of</p>	[-]	0..*

	<p>goods defined in the SMC SpecialTreatmentList. Can be referenced in the general part or in the item.  definition @de: Referenz auf eine besondere Warenbehandlung, die in der SMC SpecialTreatmentList definiert sind. Kann im allgemeinen Teil oder im Item referenziert werden.</p> <p>description @en: Reference to a special treatment of goods defined in the SMC SpecialTreatmentList. Can be referenced in the general part or in the item.  description @de: Referenz auf eine besondere Warenbehandlung, die in der SMC SpecialTreatmentList definiert sind. Kann im allgemeinen Teil oder im Item referenziert werden.</p>		
[Ref] MediaRef	<p>[IRI] <a href="https://example.com/ids/cd/7212-4393-2460-1082">https://example.com/ids/cd/7212-4393-2460-1082</a>  preferredName @en: Media reference  preferredName @de: Referenz auf Medien</p> <p>definition @en: Reference to a file attachment defined in the SMC MediaList. Can be referenced in the general part or in the item.  definition @de: Referenz auf einen Dateianhang, der in der SMC MediaList definiert sind. Kann im allgemeinen Teil oder im Item referenziert werden.</p> <p>description @en: Reference to a file attachment defined in the SMC MediaList. Can be referenced in the general part or in the item.  description @de: Referenz auf einen Dateianhang, der in der SMC MediaList definiert sind. Kann im allgemeinen Teil oder im Item referenziert werden.</p>	[-]	0..*
[Ref] CostCenterRef	<p>[IRI] <a href="https://example.com/ids/cd/8086-8735-8251-8529">https://example.com/ids/cd/8086-8735-8251-8529</a>  preferredName @en: Cost center reference  preferredName @de: Referenz auf Kostenstelle</p> <p>definition @en: Reference to a cost center defined in the SMC CostCentersList. Can be referenced in the general part or in the item.  definition @de: Referenz auf eine Kostenstelle, der in der SMC CostCentersList definiert sind. Kann im allgemeinen Teil oder im Item referenziert werden.</p> <p>description @en: Reference to a cost center defined in the SMC CostCentersList. Can be referenced in the general part or in the item.  description @de: Referenz auf eine Kostenstelle, der in der SMC CostCentersList definiert sind. Kann im allgemeinen Teil oder im Item referenziert werden.</p>	[-]	0..*
[SMC] DeliveryDateList	<p>[IRI] <a href="https://example.com/ids/cd/9886-2051-5641-9078">https://example.com/ids/cd/9886-2051-5641-9078</a>  preferredName @en: Delivery date list  preferredName @de: Liste der Lieferzeiträume</p> <p>definition @en: List of delivery periods to be referenced in the business document. The referencing can be done in the general part or for each item separately.  definition @de: Liste von Lieferzeiträumen auf die im Geschäftsdokument referenziert werden sollen. Die</p>	[-] 1 elements	1

	<p>Referenzierung kann im allgemeinen Teil oder für jedes Item separat erfolgen.</p> <p>description @en: List of delivery periods to be referenced in the business document. The referencing can be done in the general part or for each item separately. description @de: Liste von Lieferzeiträumen auf die im Geschäftsdokument referenziert werden sollen. Die Referenzierung kann im allgemeinen Teil oder für jedes Item separat erfolgen.</p>		
[SMC] ScanCodesList	<p>[IRI] <a href="https://example.com/ids/cd/1781-5106-0330-5831">https://example.com/ids/cd/1781-5106-0330-5831</a> preferredName @en: Scan code list preferredName @de: Scancode-liste</p> <p>definition @en: List of scan codes, e.g. barcodes definition @de: Liste von Scan Codes, z.B. Barcodes</p> <p>description @en: List of scan codes, e.g. barcodes description @de: Liste von Scan Codes, z.B. Barcodes</p>	[-] 1 elements	0..1
[SMC] ProductID	<p>[IRI] <a href="https://example.com/ids/cd/7622-9908-5900-2769">https://example.com/ids/cd/7622-9908-5900-2769</a> preferredName @en: ProductID preferredName @de: Produkt ID</p> <p>definition @en: This element is used to identify the item. It must be possible to clearly identify the product from the sub-elements contained definition @de: Dieses Element dient zur Identifikation des Artikels. Aus den enthaltenen Unterelementen muss eine eindeutigen Identifikation des Produktes möglich sein</p> <p>description @en: This element is used to identify the item. It must be possible to clearly identify the product from the sub-elements contained description @de: Dieses Element dient zur Identifikation des Artikels. Aus den enthaltenen Unterelementen muss eine eindeutigen Identifikation des Produktes möglich sein</p>	[-] 10 elements	0..1
[SMC] ExcludedIngredientsList	<p>[IRI] <a href="https://example.com/ids/cd/8386-0541-1586-1175">https://example.com/ids/cd/8386-0541-1586-1175</a> preferredName @en: Excluded ingredients list preferredName @de: Liste ausgeschlossener Inhaltsstoffe</p> <p>definition @en: Excluded ingredients list definition @de: Liste ausgeschlossener Inhaltsstoffe</p> <p>description @en: Excluded ingredients list description @de: Liste ausgeschlossener Inhaltsstoffe</p>	[-] 1 elements	0..1
[Prop] ProductName	<p>[IRI] <a href="https://example.com/ids/cd/4812-2131-7159-7423">https://example.com/ids/cd/4812-2131-7159-7423</a> preferredName @en: Product name preferredName @de: Produktname</p> <p>definition @en: Name of the product definition @de: Bezeichnung des Produkts</p>	[String]	1

	<p>description @en: Name of the product description @de: Bezeichnung des Produkts</p>		
<p>[Prop] ProductShortDescription</p>	<p>[IRI] <a href="https://example.com/ids/cd/2979-3291-1034-5353">https://example.com/ids/cd/2979-3291-1034-5353</a> preferredName @en: Product name preferredName @de: Produktname</p> <p>definition @en: This element contains the short description/name of the product. Basically This description should be short and clear and meaningful within the first 40 characters, as many application systems only use 40 characters can process definition @de: Dieses Element enthält die Kurzbeschreibung/-bezeichnung des Produktes. Grundsätzlich soll diese Beschreibung kurz und innerhalb der ersten 40 Zeichen eindeutig und aussagekräftig sein, da in der weiteren Verwendung viele Anwendungssysteme nur 40 Zeichen verarbeiten können</p> <p>description @en: This element contains the short description/name of the product. Basically This description should be short and clear and meaningful within the first 40 characters, as many application systems only use 40 characters can process description @de: Dieses Element enthält die Kurzbeschreibung/-bezeichnung des Produktes. Grundsätzlich soll diese Beschreibung kurz und innerhalb der ersten 40 Zeichen eindeutig und aussagekräftig sein, da in der weiteren Verwendung viele Anwendungssysteme nur 40 Zeichen verarbeiten können</p>	[String]	1
<p>[Prop] ProductDescription</p>	<p>[IRI] <a href="https://example.com/ids/cd/0373-9667-4526-5467">https://example.com/ids/cd/0373-9667-4526-5467</a> preferredName @en: Product description preferredName @de: Produktbeschreibung</p> <p>definition @en: This element contains the long description of the product definition @de: Dieses Element enthält die Langbeschreibung des Produktes</p> <p>description @en: This element contains the long description of the product description @de: Dieses Element enthält die Langbeschreibung des Produktes</p>	[String]	1
<p>[Ref] AASItemReference</p>	<p>[IRI] <a href="https://example.com/ids/cd/7265-1824-8757-7588">https://example.com/ids/cd/7265-1824-8757-7588</a> preferredName @en: AAS item reference preferredName @de: AAS Artikelreferenz</p> <p>definition @en: Reference to the AAS of the item if it is described in another AAS definition @de: Referenz auf die AAS des Items, falls dieses in einer anderen AAS beschrieben ist</p>	[-]	0..*



	description @en: Reference to the AAS of the item if it is described in another AAS description @de: Referenz auf die AAS des Items, falls dieses in einer anderen AAS beschrieben ist		
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### 3.30 Properties of the SMC “ProductPrice”

Table 31: Properties of SMC “ProductPrice”

<b>idShort:</b>	ProductPrice		
<b>Class:</b>	SubmodelElementCollection		
<b>semanticId:</b>	[IRI] https://example.com/ids/cd/3275-4793-0126-5699		
<b>isCaseOf</b>	-		
<b>AllowDuplicates</b>	-		
<b>Parent</b>	ProductPrice		
<b>Explanation</b>	Information on product or article price@en,Angaben zum Produktpreis bzw. Artikelpreis@de		
<b>[SME type]</b>	<b>semanticId = [idType]value</b>	<b>[valueType]</b>	<b>card.</b>
<b>idShort</b>	<b>Description@en</b>	<b>example</b>	
[Prop] Price	[IRI] https://example.com/ids/cd/4092-5091-3141-9803 preferredName @en: Price preferredName @de: Preis  definition @en: Amount of the fixed price definition @de: Höhe des festgelegten Preises  description @en: Amount of the fixed price description @de: Höhe des festgelegten Preises	[Float]	1
[Prop] MinPrice	[IRI] https://example.com/ids/cd/0877-6591-0462-3412 preferredName @en: Minimal price preferredName @de: Minimaler Preis  definition @en: Minimum allowable price definition @de: Minimal zulässiger Preis  description @en: Minimum allowable price description @de: Minimal zulässiger Preis	[Float]	0..1
[Prop] MaxPrice	[IRI] https://example.com/ids/cd/3744-0851-2732-0008 preferredName @en: maximal price preferredName @de: Maximaler Preis  definition @en: Maximal allowable price definition @de: Maximal zulässiger Preis  description @en: Maximal allowable price description @de: Maximal zulässiger Preis	[Float]	0..1
[Prop] PriceQuantity	[IRI] https://example.com/ids/cd/0789-3388-5877-3403 preferredName @en: price quantity preferredName @de: Preisbezugsmenge	[Float]	0..1

	<p>definition @en: If nothing is specified in this field the default value 1 is assumed, in other words the price refers to exactly one order unit. If specified, a multiple or a fraction of the order unit which indicates the quantity to which all the specified prices refer.</p> <p>definition @de: Wird dieses Element nicht angegeben, so bezieht sich der Preis auf die im Element OrderQuantityUnit enthaltene Bestelleinheit. Durch Angabe eines Vielfaches oder eines Bruchteils der Bestelleinheit kann davon abgewichen werden.</p> <p>description @en: If nothing is specified in this field the default value 1 is assumed, in other words the price refers to exactly one order unit. If specified, a multiple or a fraction of the order unit which indicates the quantity to which all the specified prices refer.</p> <p>description @de: Wird dieses Element nicht angegeben, so bezieht sich der Preis auf die im Element OrderQuantityUnit enthaltene Bestelleinheit. Durch Angabe eines Vielfaches oder eines Bruchteils der Bestelleinheit kann davon abgewichen werden.</p>		
[Prop] PriceUnitValue	<p>[IRI] <a href="https://example.com/ids/cd/6981-6083-8824-1638">https://example.com/ids/cd/6981-6083-8824-1638</a></p> <p>preferredName @en: Amount of price units</p> <p>preferredName @de: Anzahl Preiseinheiten</p> <p>definition @en: Number of supplied price units</p> <p>definition @de: Anzahl der gelieferten Preiseinheiten</p> <p>description @en: Number of supplied price units</p> <p>description @de: Anzahl der gelieferten Preiseinheiten</p>	[Float]	1
[Prop] PriceUnit	<p>[IRI] <a href="https://example.com/ids/cd/0724-2592-6437-0181">https://example.com/ids/cd/0724-2592-6437-0181</a></p> <p>preferredName @en: Price unit</p> <p>preferredName @de: Preiseinheit</p> <p>definition @en: Unit of measurement on which the price is calculated</p> <p>definition @de: Mengeneinheit, auf die sich der Preis bezieht</p> <p>description @en: Unit of measurement on which the price is calculated</p> <p>description @de: Mengeneinheit, auf die sich der Preis bezieht</p>	[Integer]	1
[Prop] PriceUnitFactor	<p>[IRI] <a href="https://example.com/ids/cd/6257-1709-2210-1717">https://example.com/ids/cd/6257-1709-2210-1717</a></p> <p>preferredName @en: Pricefactor</p> <p>preferredName @de: Preisfaktor</p> <p>definition @en: The price factor is the conversion factor for price unit and order unit.</p> <p>definition @de: Umrechnungsfaktor zwischen Preiseinheit und Bestelleinheit. 1 Preiseinheit entspricht PriceUnitFactor * Bestelleinheit</p> <p>description @en: The price factor is the conversion factor for price unit and order unit.</p> <p>description @de: Umrechnungsfaktor zwischen Preiseinheit und Bestelleinheit. 1 Preiseinheit entspricht PriceUnitFactor * Bestelleinheit</p>	[Integer]	0..1
[Prop] CostsIncluded	<p>[IRI] <a href="https://example.com/ids/cd/9938-2814-8339-9047">https://example.com/ids/cd/9938-2814-8339-9047</a></p> <p>preferredName @en: Costs included</p> <p>preferredName @de: Berücksichtigte Kosten</p>	[String]	0..*

	<p>definition @en: Kind of included costs definition @de: Art inkludierter Kosten</p> <p>description @en: Kind of included costs description @de: Art inkludierter Kosten</p>		
[Prop] AllowancesAndCharges	<p>[IRI] <a href="https://example.com/ids/cd/5788-5570-1930-4173">https://example.com/ids/cd/5788-5570-1930-4173</a> preferredName @en: Allowances and charges preferredName @de: Vergütungen und Gebühren</p> <p>definition @en: Sum of allowances and charges definition @de: Summe der Vergütungen und Gebühren</p> <p>description @en: Sum of allowances and charges description @de: Summe der Vergütungen und Gebühren</p>	[Float]	0..1
[Prop] Shipping	<p>[IRI] <a href="https://example.com/ids/cd/9692-8634-0313-9210">https://example.com/ids/cd/9692-8634-0313-9210</a> preferredName @en: Shipping costs preferredName @de: Zustellkosten</p> <p>definition @en: Shipping costs definition @de: Versandkosten</p> <p>description @en: Shipping costs description @de: Versandkosten</p>	[Float]	0..1
[Prop] ShippingTax	<p>[IRI] <a href="https://example.com/ids/cd/5744-6862-5676-3301">https://example.com/ids/cd/5744-6862-5676-3301</a> preferredName @en: Shipping tax preferredName @de: 0</p> <p>definition @en: Tax amount on the shipping costs definition @de: Steuer auf die Zustellkosten als Betrag</p> <p>description @en: Tax amount on the shipping costs description @de: Steuer auf die Zustellkosten als Betrag</p>	[Float]	0..1
[SMC] TaxDetails	<p>[IRI] <a href="https://example.com/ids/cd/2379-8385-4839-7052">https://example.com/ids/cd/2379-8385-4839-7052</a> preferredName @en: Tax details preferredName @de: Steuerdetails</p> <p>definition @en: Tax information definition @de: Informationen zu den Steuern</p> <p>description @en: Tax information description @de: Informationen zu den Steuern</p>	[IRI] 8 elements	0..*

### 3.31 Properties of the SMC “TaxDetails”

Table 32: Properties of SMC “TaxDetails”

<b>idShort:</b>	TaxDetails		
<b>Class:</b>	SubmodelElementCollection		

<b>semanticId:</b>	[IRI] <a href="https://example.com/ids/cd/2379-8385-4839-7052">https://example.com/ids/cd/2379-8385-4839-7052</a>		
<b>isCaseOf</b>	-		
<b>AllowDuplicates</b>	-		
<b>Parent</b>	TaxDetails		
<b>Explanation</b>	Tax information@en, Informationen zu den Steuern@de		
<b>[SME type]</b>	<b>semanticId = [idType]value</b>	<b>[valueType]</b>	<b>card.</b>
<b>idShort</b>	<b>Description@en</b>	<b>example</b>	
[Prop] CalculationSequence	[IRI] <a href="https://example.com/ids/cd/6369-2005-0784-8950">https://example.com/ids/cd/6369-2005-0784-8950</a> preferredName @en: Calculation sequence preferredName @de: Anwendungsreihenfolge  definition @en: Determines the sequence for applying multiple taxes to a basis. The taxes must be applied beginning with the lowest value in the sequence. The tax with the lowest sequence will be calculated first, then follows the tax with the next higher sequence, and so on. If two taxes have the same sequence, both tax factors must be added prior to calculation. definition @de: Bestimmt die Reihenfolge für die Anwendung mehrerer Steuern auf eine Basis. Die Steuern müssen beginnend mit dem niedrigsten Wert in der Reihenfolge angewendet werden. Die Steuer mit der niedrigsten Reihenfolge wird zuerst berechnet, dann folgt die Steuer mit der nächsthöhere Sequenz usw. Wenn zwei Steuern die gleiche Reihenfolge haben, müssen vor der Berechnung beide Steuerfaktoren addiert werden.  description @en: Determines the sequence for applying multiple taxes to a basis. The taxes must be applied beginning with the lowest value in the sequence. The tax with the lowest sequence will be calculated first, then follows the tax with the next higher sequence, and so on. If two taxes have the same sequence, both tax factors must be added prior to calculation. description @de: Bestimmt die Reihenfolge für die Anwendung mehrerer Steuern auf eine Basis. Die Steuern müssen beginnend mit dem niedrigsten Wert in der Reihenfolge angewendet werden. Die Steuer mit der niedrigsten Reihenfolge wird zuerst berechnet, dann folgt die Steuer mit der nächsthöhere Sequenz usw. Wenn zwei Steuern die gleiche Reihenfolge haben, müssen vor der Berechnung beide Steuerfaktoren addiert werden.	[Integer]	0..1
[Prop] TaxCategory	[IRI] <a href="https://example.com/ids/cd/7849-1350-5314-5069">https://example.com/ids/cd/7849-1350-5314-5069</a> preferredName @en: Tax category preferredName @de: Steuerkategorie  definition @en: Specifies the tax category as a code. By this it is possible to define the tax not as an absolute value, but as the currently valid percentage. The specification should take place, if possible, by using a common code. definition @de: Gibt die Steuerkategorie als Code an. Dadurch ist es möglich, die Steuer nicht als absoluter Wert zu definieren, sondern als aktuell gültiger Prozentsatz. Die Spezifikation sollte nach Möglichkeit unter Verwendung eines gemeinsamen Codes erfolgen.	[String]	0..1

	<p>description @en: Specifies the tax category as a code. By this it is possible to define the tax not as an absolute value, but as the currently valid percentage. The specification should take place, if possible, by using a common code.</p> <p>description @de: Gibt die Steuerkategorie als Code an. Dadurch ist es möglich, die Steuer nicht als absoluter Wert zu definieren, sondern als aktuell gültiger Prozentsatz. Die Spezifikation sollte nach Möglichkeit unter Verwendung eines gemeinsamen Codes erfolgen.</p>		
[Prop] TaxType	<p>[IRI] <a href="https://example.com/ids/cd/2086-3996-3358-4545">https://example.com/ids/cd/2086-3996-3358-4545</a></p> <p>preferredName @en: Tax type</p> <p>preferredName @de: Steuerart</p> <p>definition @en: Tax type, by using internationally accepted terms, such as VAT for value added tax.</p> <p>definition @de: Steuertyp, unter Verwendung international anerkannter Abkürzungen, z.B. VAT für Mehrwertsteuer.</p> <p>description @en: Tax type, by using internationally accepted terms, such as VAT for value added tax.</p> <p>description @de: Steuertyp, unter Verwendung international anerkannter Abkürzungen, z.B. VAT für Mehrwertsteuer.</p>	[String]	0..1
[Prop] TaxRate	<p>[IRI] <a href="https://example.com/ids/cd/9657-3717-0085-0552">https://example.com/ids/cd/9657-3717-0085-0552</a></p> <p>preferredName @en: Tax rate</p> <p>preferredName @de: Steuersatz</p> <p>definition @en: Factor for tax applicable to this price</p> <p>definition @de: Faktor für die auf den Preis anwendbare Steuer</p> <p>description @en: Factor for tax applicable to this price</p> <p>description @de: Faktor für die auf den Preis anwendbare Steuer</p>	[Float]	0..1
[Prop] TaxAmount	<p>[IRI] <a href="https://example.com/ids/cd/9821-6978-7214-9515">https://example.com/ids/cd/9821-6978-7214-9515</a></p> <p>preferredName @en: Tax amount</p> <p>preferredName @de: Steuerbetrag</p> <p>definition @en: Total amount of the tax to be paid.</p> <p>definition @de: Gesamtbetrag der zu zahlenden Steuer.</p> <p>description @en: Total amount of the tax to be paid.</p> <p>description @de: Gesamtbetrag der zu zahlenden Steuer.</p>	[Float]	0..1
[Prop] TaxBase	<p>[IRI] <a href="https://example.com/ids/cd/7385-2562-0130-2157">https://example.com/ids/cd/7385-2562-0130-2157</a></p> <p>preferredName @en: Different tax base</p> <p>preferredName @de: Abweichende Steuerbasis</p> <p>definition @en: If used this element specifies the base for the calculation of the tax</p> <p>definition @de: Wird dieses Element angegeben, wird die Steuer auf Basis dieses Betrag berechnet</p> <p>description @en: If used this element specifies the base for the calculation of the tax</p> <p>description @de: Wird dieses Element angegeben, wird die Steuer auf Basis dieses Betrag berechnet</p>	[Float]	0..1

[Prop] ExemptionReason	[IRI] https://example.com/ids/cd/8100-0054-1040-5561 preferredName @en: Exemption reason preferredName @de: Ausnahmegrund  definition @en: This element gives the reason why the tax is an exemption from the norm definition @de: Diese Element gibt an, warum eine Steuer anders als üblich angewendet wird, also welche Ausnahmeregelung greift.  description @en: This element gives the reason why the tax is an exemption from the norm description @de: Diese Element gibt an, warum eine Steuer anders als üblich angewendet wird, also welche Ausnahmeregelung greift.	[String]	0..1
[Prop] Jurisdiction	[IRI] https://example.com/ids/cd/9772-0297-0679-9801 preferredName @en: Tax jurisdiction preferredName @de: Steuerhoheitsgebiet  definition @en: Jurisdiction for the tax definition @de: Gerichtsstand für die Steuer  description @en: Jurisdiction for the tax description @de: Gerichtsstand für die Steuer	[String]	0..1

### 3.32 Properties of the SMC “PartialDeliveryList”

Table 33: Properties of SMC “PartialDeliveryList”

<b>idShort:</b>	PartialDeliveryList		
<b>Class:</b>	SubmodelElementCollection		
<b>semanticId:</b>	[IRI] https://example.com/ids/cd/2956-7788-3383-6410		
<b>isCaseOf</b>	-		
<b>AllowDuplicates</b>	-		
<b>Parent</b>	PartialDeliveryList		
<b>Explanation</b>	List for defining partial deliveries of an item@en, Liste zur Definition von Teillieferungen eines Artikels@de		
<b>[SME type]</b>	<b>semanticId = [idType]value</b>	<b>[valueType]</b>	<b>card.</b>
<b>idShort</b>	<b>Description@en</b>	<b>example</b>	
[SMC] PartialDelivery	[IRI] https://example.com/ids/cd/2621-3426-7967-4603 preferredName @en: Partial shipment preferredName @de: Teillieferung  definition @en: Definition of partial delivery of an item definition @de: Definition der Teillieferung eines Artikels  description @en: Definition of partial delivery of an item description @de: Definition der Teillieferung eines Artikels	[-] 1 elements	0..*

### 3.33 Properties of the SMC “PartialDelivery”

Table 34: Properties of SMC “PartialDelivery”

<b>idShort:</b>	PartialDelivery		
<b>Class:</b>	SubmodelElementCollection		
<b>semanticId:</b>	[IRI] https://example.com/ids/cd/2621-3426-7967-4603		
<b>isCaseOf</b>	-		
<b>AllowDuplicates</b>	-		
<b>Parent</b>	PartialDelivery		
<b>Explanation</b>	Definition of partial delivery of an item@en,Definition der Teillieferung eines Artikels@de		
<b>[SME type]</b>	<b>semanticId = [idType]value</b>	<b>[valueType]</b>	<b>card.</b>
<b>idShort</b>	<b>Description@en</b>	<b>example</b>	
[Prop] OrderQuantity	[IRI] https://example.com/ids/cd/0153-3716-2451-1483 preferredName @en: Order Quantity preferredName @de: Bestellmenge  definition @en: Quantity delivered definition @de: Liefermenge  description @en: Quantity delivered description @de: Liefermenge	[Float]	0..1

### 3.34 Properties of the SMC “CarbonFootprint”

Table 35: Properties of SMC “CarbonFootprint”

<b>idShort:</b>	CarbonFootprint		
<b>Class:</b>	SubmodelElementCollection		
<b>semanticId:</b>	[IRI] https://example.com/ids/cd/7946-6796-7075-0011		
<b>isCaseOf</b>	-		
<b>AllowDuplicates</b>	-		
<b>Parent</b>	CarbonFootprint		
<b>Explanation</b>	Information on carbon footprint@en,Informationen zum CO2-Fussabdruck@de		
<b>[SME type]</b>	<b>semanticId = [idType]value</b>	<b>[valueType]</b>	<b>card.</b>
<b>idShort</b>	<b>Description@en</b>	<b>example</b>	
[Prop] CO2RawMaterialAmount	[IRI] https://example.com/ids/cd/7419-6511-6172-4284 preferredName @en: CO2 quantity material preferredName @de: CO2-Menge Material  definition @en: Amount of CO2 for the material used	[Float]	0..1

	<p>definition @de: CO2-Menge für das eingesetzte Material</p> <p>description @en: Amount of CO2 for the material used description @de: CO2-Menge für das eingesetzte Material</p>		
[Prop] CO2RawMaterialUnit	<p>[IRI] <a href="https://example.com/ids/cd/1534-2323-8899-5513">https://example.com/ids/cd/1534-2323-8899-5513</a> preferredName @en: Unit CO2 quantity material preferredName @de: CO2-Mengeneinheit Material</p> <p>definition @en: Unit of the CO2 quantity for the material definition @de: Einheit der CO2-Mengenangabe für das Material</p> <p>description @en: Unit of the CO2 quantity for the material description @de: Einheit der CO2-Mengenangabe für das Material</p>	[String]	0..1
[Prop] CO2DeliveryAmount	<p>[IRI] <a href="https://example.com/ids/cd/4345-6439-0432-8625">https://example.com/ids/cd/4345-6439-0432-8625</a> preferredName @en: CO2 quantity delivery preferredName @de: CO2-Menge Lieferung</p> <p>definition @en: CO2 quantity for delivery definition @de: CO2-Menge für die Lieferung</p> <p>description @en: CO2 quantity for delivery description @de: CO2-Menge für die Lieferung</p>	[Float]	0..1
[Prop] CO2DeliveryUnit	<p>[IRI] <a href="https://example.com/ids/cd/9649-3985-1604-8273">https://example.com/ids/cd/9649-3985-1604-8273</a> preferredName @en: Unit CO2 quantity delivery preferredName @de: CO2-Mengeneinheit Lieferung</p> <p>definition @en: Unit of CO2 quantity for delivery definition @de: Einheit der CO2-Mengenangabe für die Lieferung</p> <p>description @en: Unit of CO2 quantity for delivery description @de: Einheit der CO2-Mengenangabe für die Lieferung</p>	[String]	0..1
[Prop] CO2ProductAmount	<p>[IRI] <a href="https://example.com/ids/cd/2388-6871-7996-2126">https://example.com/ids/cd/2388-6871-7996-2126</a> preferredName @en: CO2 quantity item preferredName @de: CO2-Menge Artikel</p> <p>definition @en: CO2 quantity for the item definition @de: CO2-Menge für den Artikel</p> <p>description @en: CO2 quantity for the item description @de: CO2-Menge für den Artikel</p>	[Float]	0..1
[Prop] CO2ProductUnit	<p>[IRI] <a href="https://example.com/ids/cd/0922-2704-3072-8236">https://example.com/ids/cd/0922-2704-3072-8236</a> preferredName @en: Unit CO2 quantity item preferredName @de: CO2-Mengeneinheit Artikel</p> <p>definition @en: Unit of the CO2 quantity for the item definition @de: Einheit der CO2-Mengenangabe für den Artikel</p> <p>description @en: Unit of the CO2 quantity for the item description @de: Einheit der CO2-Mengenangabe für den Artikel</p>	[String]	0..1



### 3.35 Properties of the SMC “DeliveryDateList”

Table 36: Properties of SMC “DeliveryDateList”

<b>idShort:</b>	DeliveryDateList		
<b>Class:</b>	SubmodelElementCollection		
<b>semanticId:</b>	[IRI] https://example.com/ids/cd/9886-2051-5641-9078		
<b>isCaseOf</b>	-		
<b>AllowDuplicates</b>	-		
<b>Parent</b>	DeliveryDateList		
<b>Explanation</b>	List of delivery periods to be referenced in the business document. The referencing can be done in the general part or for each item separately. @en, Liste von Lieferzeiträumen auf die im Geschäftsdokument referenziert werden sollen. Die Referenzierung kann im allgemeinen Teil oder für jedes Item separat erfolgen. @de		
<b>[SME type]</b>	<b>semanticId = [idType]value</b>	<b>[valueType]</b>	<b>card.</b>
<b>idShort</b>	<b>Description @en</b>	<b>example</b>	
[SMC] DeliveryDate	[IRI] https://example.com/ids/cd/3922-4768-8572-1049 preferredName @en: Delivery date preferredName @de: Lieferzeitraum  definition @en: Information about the delivery date. Referencing can be done in the general part or for each article separately. definition @de: Informationen zum Lieferdatum. Die Referenzierung kann im allgemeinen Teil oder für jedes Item separat erfolgen.  description @en: Information about the delivery date. Referencing can be done in the general part or for each article separately. description @de: Informationen zum Lieferdatum. Die Referenzierung kann im allgemeinen Teil oder für jedes Item separat erfolgen.	[IRI] 5 elements	1..*

### 3.36 Properties of the SMC “DeliveryDate”

Table 37: Properties of SMC “DeliveryDate”

<b>idShort:</b>	DeliveryDate		
<b>Class:</b>	SubmodelElementCollection		
<b>semanticId:</b>	[IRI] https://example.com/ids/cd/3922-4768-8572-1049		
<b>isCaseOf</b>	-		
<b>AllowDuplicates</b>	-		
<b>Parent</b>	DeliveryDate		
<b>Explanation</b>	Information about the delivery date. Referencing can be done in the general part or for each article separately. @en, Informationen zum Lieferdatum. Die Referenzierung kann im allgemeinen Teil oder für jedes Item separat erfolgen. @de		

[SME type]	semanticId = [idType]value	[valueType]	card.
idShort	Description@en	example	
[Prop] DeliveryStartDate	[IRI] <a href="https://example.com/ids/cd/6283-8026-7314-1051">https://example.com/ids/cd/6283-8026-7314-1051</a> preferredName @en: Delivery start date preferredName @de: Lieferdatum Start  definition @en: Unique date for the start of the delivery period. If an exact delivery date has to be determined, DeliveryStartDate = DeliveryEndDate is set. definition @de: Eindeutiges Datum für den Beginn des Lieferzeitraums. Wenn ein genauer Liefertermin ermittelt werden muss, wird DeliveryStartDate = Delivery EndDate gesetzt.  description @en: Unique date for the start of the delivery period. If an exact delivery date has to be determined, DeliveryStartDate = DeliveryEndDate is set. description @de: Eindeutiges Datum für den Beginn des Lieferzeitraums. Wenn ein genauer Liefertermin ermittelt werden muss, wird DeliveryStartDate = Delivery EndDate gesetzt.	[DateTime]	1
[Prop] DeliveryEndDate	[IRI] <a href="https://example.com/ids/cd/4503-3474-9702-0875">https://example.com/ids/cd/4503-3474-9702-0875</a> preferredName @en: Delivery end date preferredName @de: Lieferdatum Ende  definition @en: Unique date for the end of the delivery period. If an exact delivery date has to be determined, DeliveryStartDate = DeliveryEndDate is set. definition @de: Eindeutiges Datum für das Ende eines Lieferzeitraums. Wenn ein genauer Liefertermin ermittelt werden muss, wird DeliveryStartDate = Delivery EndDate gesetzt.  description @en: Unique date for the end of the delivery period. If an exact delivery date has to be determined, DeliveryStartDate = DeliveryEndDate is set. description @de: Eindeutiges Datum für das Ende eines Lieferzeitraums. Wenn ein genauer Liefertermin ermittelt werden muss, wird DeliveryStartDate = Delivery EndDate gesetzt.	[DateTime]	1
[Prop] FixedDeliveryDate	[IRI] <a href="https://example.com/ids/cd/5443-9392-1270-5551">https://example.com/ids/cd/5443-9392-1270-5551</a> preferredName @en: Fixed delivery date preferredName @de: Festes Lieferdatum  definition @en: The date given is to be interpreted by the recipient as a fixed specified delivery date. definition @de: Der angegebene Termin ist vom Empfänger als fest vorgegebener Liefertermin zu interpretieren.  description @en: The date given is to be interpreted by the recipient as a fixed specified delivery date. description @de: Der angegebene Termin ist vom Empfänger als fest vorgegebener Liefertermin zu interpretieren.	[Boolean]	1
[Prop] OpeningHoursStart	[IRI] <a href="https://example.com/ids/cd/5772-7156-9304-1963">https://example.com/ids/cd/5772-7156-9304-1963</a> preferredName @en: Opening hours start preferredName @de: Öffnungszeiten Beginn  definition @en: Time at the start of regular opening hours on working days. definition @de: Zeitangabe zum Beginn der regulären Öffnungszeiten an Werktagen.	[Time]	0..1

	<p>description @en: Time at the start of regular opening hours on working days. description @de: Zeitangabe zum Beginn der regulären Öffnungszeiten an Werktagen.</p>		
[Prop] OpeningHoursEnd	<p>[IRI] https://example.com/ids/cd/5039-9797-9525-4226 preferredName @en: Opening hours end preferredName @de: Öffnungszeiten Ende</p> <p>definition @en: Time at the end of regular opening hours on working days. definition @de: Zeitangabe zum Ende der regulären Öffnungszeiten an Werktagen.</p> <p>description @en: Time at the end of regular opening hours on working days. description @de: Zeitangabe zum Ende der regulären Öffnungszeiten an Werktagen.</p>	[Time]	0..1

### 3.37 Properties of the SMC “ScanCodesList”

Table 38: Properties of SMC “ScanCodesList”

<b>idShort:</b>	ScanCodesList		
<b>Class:</b>	SubmodelElementCollection		
<b>semanticId:</b>	[IRI] https://example.com/ids/cd/1781-5106-0330-5831		
<b>isCaseOf</b>	-		
<b>AllowDuplicates</b>	-		
<b>Parent</b>	ScanCodesList		
<b>Explanation</b>	List of scan codes, e.g. barcodes@en, Liste von Scan Codes, z.B. Barcodes@de		
<b>[SME type]</b>	<b>semanticId = [idType]value</b>	<b>[valueType]</b>	<b>card.</b>
<b>idShort</b>	<b>Description@en</b>	<b>example</b>	
[SMC] ScanCodes	<p>[IRI] https://example.com/ids/cd/6783-9017-6033-9551 preferredName @en: Scan code information preferredName @de: Scancodeinformation</p> <p>definition @en: Scan code information definition @de: Informationen zum Scancode</p> <p>description @en: Scan code information description @de: Informationen zum Scancode</p>	[IRI] 2 elements	0..*

### 3.38 Properties of the SMC “ScanCodes”

Table 39: Properties of SMC “ScanCodes”

<b>idShort:</b>	ScanCodes		
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<b>Class:</b>	SubmodelElementCollection		
<b>semanticId:</b>	[IRI] https://example.com/ids/cd/6783-9017-6033-9551		
<b>isCaseOf</b>	-		
<b>AllowDuplicates</b>	-		
<b>Parent</b>	ScanCodes		
<b>Explanation</b>	Scan code information@en,Informationen zum Scancode@de		
<b>[SME type]</b>	<b>semanticId = [idType]value</b>	<b>[valueType]</b>	<b>card.</b>
<b>idShort</b>	<b>Description@en</b>	<b>example</b>	
[Prop] CodeType	[IRI] https://example.com/ids/cd/8962-0369-5294-2281 preferredName @en: Scan code type preferredName @de: Scancodetyp  definition @en: Typ of the Scancode, e.g. NFC, QR-Code, Bar-Code definition @de: Typ des Scancodes, z.B. NFC, QR-Code, Bar-Code  description @en: Typ of the Scancode, e.g. NFC, QR-Code, Bar-Code description @de: Typ des Scancodes, z.B. NFC, QR-Code, Bar-Code	[String]	1
[Prop] Code	[IRI] https://example.com/ids/cd/6178-3139-3267-5380 preferredName @en: Scan code preferredName @de: Scancode  definition @en: Alpha-numeric code definition @de: Alphanumerischer Code  description @en: Alpha-numeric code description @de: Alphanumerischer Code	[String]	1

### 3.39 Properties of the SMC “ProductID”

Table 40: Properties of SMC “ProductID”

<b>idShort:</b>	ProductID		
<b>Class:</b>	SubmodelElementCollection		
<b>semanticId:</b>	[IRI] https://example.com/ids/cd/7622-9908-5900-2769		
<b>isCaseOf</b>	-		
<b>AllowDuplicates</b>	-		
<b>Parent</b>	ProductID		
<b>Explanation</b>	This element is used to identify the item. It must be possible to clearly identify the product from the sub-elements contained@en,Dieses Element dient zur Identifikation des Artikels. Aus den enthaltenen Unterelementen muss eine eindeutigen Identifikation des Produktes möglich sein@de		
<b>[SME type]</b>	<b>semanticId = [idType]value</b>	<b>[valueType]</b>	<b>card.</b>
<b>idShort</b>	<b>Description@en</b>	<b>example</b>	

<p>[Prop] GTIN</p>	<p>[IRI] <a href="https://example.com/ids/cd/2705-0825-7640-5595">https://example.com/ids/cd/2705-0825-7640-5595</a>  preferredName @en: GTIN / EAN  preferredName @de: GTIN / EAN</p> <p>definition @en: Global Trade Item Number, see <a href="http://www.uc-council.org/2005sunrise/global_trade_item_number.html">http://www.uc-council.org/2005sunrise/global_trade_item_number.html</a> 200  definition @de: Global Trade Item Number, siehe <a href="http://www.uc-council.org/2005sunrise/global_trade_item_number.html">http://www.uc-council.org/2005sunrise/global_trade_item_number.html</a> 200</p> <p>description @en: Global Trade Item Number, see <a href="http://www.uc-council.org/2005sunrise/global_trade_item_number.html">http://www.uc-council.org/2005sunrise/global_trade_item_number.html</a> 200  description @de: Global Trade Item Number, siehe <a href="http://www.uc-council.org/2005sunrise/global_trade_item_number.html">http://www.uc-council.org/2005sunrise/global_trade_item_number.html</a> 200</p>	<p>[String]</p>	<p>0..1</p>
<p>[Prop] upc</p>	<p>[IRI] <a href="https://example.com/ids/cd/8170-0593-5194-0151">https://example.com/ids/cd/8170-0593-5194-0151</a>  preferredName @en: upc  preferredName @de: UPC</p> <p>definition @en: Universal Product Code; see <a href="http://www.uc-council.org">http://www.uc-council.org</a>  definition @de: Universeller Produkt Code; siehe <a href="http://www.uc-council.org">http://www.uc-council.org</a></p> <p>description @en: Universal Product Code; see <a href="http://www.uc-council.org">http://www.uc-council.org</a>  description @de: Universeller Produkt Code; siehe <a href="http://www.uc-council.org">http://www.uc-council.org</a></p>	<p>[String]</p>	<p>0..1</p>
<p>[Prop] SupplierSpecific</p>	<p>[IRI] <a href="https://example.com/ids/cd/2652-9978-5594-8510">https://example.com/ids/cd/2652-9978-5594-8510</a>  preferredName @en: Supplier specific product ID  preferredName @de: Lieferantenspezifische Produkt ID</p> <p>definition @en: Supplier item number. It is therefore crucial for the order. It clearly identifies the product in a supplier's business documents.  definition @de: Artikelnummer des Lieferanten. Sie ist damit maßgeblich für die Bestellung. In Geschäftsdokumenten eines Lieferanten identifiziert sie das Produkt eindeutig.</p> <p>description @en: Supplier item number. It is therefore crucial for the order. It clearly identifies the product in a supplier's business documents.  description @de: Artikelnummer des Lieferanten. Sie ist damit maßgeblich für die Bestellung. In Geschäftsdokumenten eines Lieferanten identifiziert sie das Produkt eindeutig.</p>	<p>[String]</p>	<p>0..1</p>
<p>[Prop] BuyerSpecific</p>	<p>[IRI] <a href="https://example.com/ids/cd/8735-1935-1747-5635">https://example.com/ids/cd/8735-1935-1747-5635</a>  preferredName @en: Buyer specific product ID  preferredName @de: Käuferspezifische Produkt ID</p> <p>definition @en: Item number of the purchasing company  definition @de: Artikelnummer des einkaufenden Unternehmens, kann auch Materialnummer aus SAP sein</p>	<p>[String]</p>	<p>0..1</p>

	<p>description @en: Item number of the purchasing company  description @de: Artikelnummer des einkaufenden Unternehmens, kann auch Materialnummer aus SAP sein</p>		
[Prop] AgentSepcific	<p>[IRI] <a href="https://example.com/ids/cd/4653-2569-0899-7607">https://example.com/ids/cd/4653-2569-0899-7607</a>  preferredName @en: AAS Catalog Reference ID  preferredName @de: AAS Catalog Referenz ID</p> <p>definition @en: Base ID of an AAS that represents the catalog  definition @de: Basis ID einer AAS, die den Katalog abbildet</p> <p>description @en: Item number of the agent  description @de: Artikelnummer des Agenten</p>	[String]	0..1
[Prop] DelivererSpecific	<p>[IRI] <a href="https://example.com/ids/cd/6185-7755-5184-0697">https://example.com/ids/cd/6185-7755-5184-0697</a>  preferredName @en: AAS Catalog Reference ID  preferredName @de: AAS Catalog Referenz ID</p> <p>definition @en: Base ID of an AAS that represents the catalog  definition @de: Basis ID einer AAS, die den Katalog abbildet</p> <p>description @en: Item number of the deliverer  description @de: Artikelnummer des Zulieferers</p>	[String]	0..1
[Prop] ProductID	<p>[IRI] <a href="https://example.com/ids/cd/7622-9908-5900-2769">https://example.com/ids/cd/7622-9908-5900-2769</a>  preferredName @en: ProductID  preferredName @de: Produkt ID</p> <p>definition @en: This element is used to identify the item. It must be possible to clearly identify the product from the sub-elements contained  definition @de: Dieses Element dient zur Identifikation des Artikels. Aus den enthaltenen Unterelementen muss eine eindeutigen Identifikation des Produktes möglich sein</p> <p>description @en: General product ID  description @de: Generelle Produkt ID</p>	[String]	0..1
[Prop] ManacturerID	<p>[IRI] <a href="https://example.com/ids/cd/8478-8620-2273-9137">https://example.com/ids/cd/8478-8620-2273-9137</a>  preferredName @en: ManacturerID  preferredName @de: Hersteller ID</p> <p>definition @en: Item number of the manufacturer  definition @de: Artikelnummer des Herstellers</p> <p>description @en: Item number of the manufacturer  description @de: Artikelnummer des Herstellers</p>	[String]	0..1
[Prop] Materialnumber	<p>[IRI] <a href="https://example.com/ids/cd/8234-0889-4219-6817">https://example.com/ids/cd/8234-0889-4219-6817</a>  preferredName @en: Material identifier  preferredName @de: Materialnummer</p> <p>definition @en: UniqueID which includes an identity name and the authorizing body for the identity name.  definition @de: Materialnummer des Empfängers</p> <p>description @en: UniqueID which includes an identity name and the authorizing body for the identity name.  description @de: Materialnummer des Empfängers</p>	[String]	0..1

[SMC] ListProductIDsBusinessPartners	[IRI] https://example.com/ids/cd/2550-7980-4172-5990 preferredName @en: AAS Catalog Reference ID preferredName @de: AAS Katalog Referenz ID  definition @en: Base ID of an AAS that represents the catalog definition @de: Basis ID einer AAS, die den Katalog abbildet  description @en: List of business party specific product Ids, which can be referenced to business parties defined in SMC InvolvedPatiesList description @de: Liste geschäftspartnerspezifischer Produkt Ids, die auf Geschäftspartner in der SMC InvolvedPatiesList referenziert werden kann	[IRI] 1 elements	0..1
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### 3.40 Properties of the SMC “ListProductIDsBusinessPartners”

Table 41: Properties of SMC “ListProductIDsBusinessPartners”

<b>idShort:</b>	ListProductIDsBusinessPartners		
<b>Class:</b>	SubmodelElementCollection		
<b>semanticId:</b>	[IRI] https://example.com/ids/cd/2550-7980-4172-5990		
<b>isCaseOf</b>	-		
<b>AllowDuplicates</b>	-		
<b>Parent</b>	ListProductIDsBusinessPartners		
<b>Explanation</b>	List of business party specific product Ids, which can be referenced to business parties defined in SMC InvolvedPatiesList@en, Liste geschäftspartnerspezifischer Produkt Ids, die auf Geschäftspartner in der SMC InvolvedPatiesList referenziert werden kann@de		
<b>[SME type]</b>	<b>semanticId = [idType]value</b>	<b>[valueType]</b>	<b>card.</b>
<b>idShort</b>	<b>Description@en</b>	<b>example</b>	
[SMC] ProductIDParty	[IRI] https://example.com/ids/cd/4450-7755-9149-0234 preferredName @en: AAS Catalog Reference ID preferredName @de: AAS Katalog Referenz ID  definition @en: Base ID of an AAS that represents the catalog definition @de: Basis ID einer AAS, die den Katalog abbildet  description @en: Business party specific product ID which can be referenced to business parties defined in SMC InvolvedPatiesList description @de: Geschäftspartnerspezifische Produkt ID, auf Geschäftspartner in der SMC InvolvedPatiesList referenzierbar	[IRI] 3 elements	0..*

## 3.41 Properties of the SMC “ProductIDParty”

Table 42: Properties of SMC “ProductIDParty”

<b>idShort:</b>	ProductIDParty		
<b>Class:</b>	SubmodelElementCollection		
<b>semanticId:</b>	[IRI] https://example.com/ids/cd/4450-7755-9149-0234		
<b>isCaseOf</b>	-		
<b>AllowDuplicates</b>	-		
<b>Parent</b>	ProductIDParty		
<b>Explanation</b>	Business party specific product ID which can be referenced to business parties defined in SMC InvolvedPartiesList@en, Geschäftspartnerspezifische Produkt ID, auf Geschäftspartner in der SMC InvolvedPartiesList referenzierbar@de		
<b>[SME type]</b>	<b>semanticId = [idType]value</b>	<b>[valueType]</b>	<b>card.</b>
<b>idShort</b>	<b>Description@en</b>	<b>example</b>	
[Ref] BusinessParty	[IRI] https://example.com/ids/cd/9022-5905-0456-3776 preferredName @en: AAS Catalog Reference ID preferredName @de: AAS Catalog Referenz ID  definition @en: Base ID of an AAS that represents the catalog definition @de: Basis ID einer AAS, die den Katalog abbildet  description @en: Business party reference in SMC InvolvedPartiesList description @de: Geschäftspartnerreferenz in SMC InvolvedPartiesList	[IRI]	0..1
[Prop] ProductIDPartySpecific	[IRI] https://example.com/ids/cd/3679-0151-0036-4768 preferredName @en: AAS Catalog Reference ID preferredName @de: AAS Catalog Referenz ID  definition @en: Base ID of an AAS that represents the catalog definition @de: Basis ID einer AAS, die den Katalog abbildet  description @en: Product ID used by business party description @de: Produkt ID, die beim Geschäftspartner verwendet wird	[String]	0..1
[Prop] ProductnamePartySpecific	[IRI] https://example.com/ids/cd/1951-2192-6713-2536 preferredName @en: AAS Catalog Reference ID preferredName @de: AAS Catalog Referenz ID  definition @en: Base ID of an AAS that represents the catalog definition @de: Basis ID einer AAS, die den Katalog abbildet  description @en: Product name used by Business party description @de: Produktbezeichnung, die vom Geschäftspartner verwendet wird	[String]	0..1



## 3.42 Properties of the SMC “ExcludedIngredientsList”

Table 43: Properties of SMC “ExcludedIngredientsList”

<b>idShort:</b>	ExcludedIngredientsList		
<b>Class:</b>	SubmodelElementCollection		
<b>semanticId:</b>	[IRI] https://example.com/ids/cd/8386-0541-1586-1175		
<b>isCaseOf</b>	-		
<b>AllowDuplicates</b>	-		
<b>Parent</b>	ExcludedIngredientsList		
<b>Explanation</b>	Excluded ingredients list@en, Liste ausgeschlossener Inhaltsstoffe@de		
<b>[SME type]</b>	<b>semanticId = [idType]value</b>	<b>[valueType]</b>	<b>card.</b>
<b>idShort</b>	<b>Description@en</b>	<b>example</b>	
[Prop] ExcludedIngredient	[IRI] https://example.com/ids/cd/8717-3030-9564-1365 preferredName @en: Excluded ingredient preferredName @de: Ausgeschlossener Inhaltsstoff  definition @en: Name of an excluded ingredient definition @de: Bezeichnung eines ausgeschlossenen Inhaltsstoffs  description @en: Name of an excluded ingredient description @de: Bezeichnung eines ausgeschlossenen Inhaltsstoffs	[String]	0..*

## 4 Usage as SubmodelElementCollection

### 4.1 Properties of the Submodel “Purchase Order Creation”

Due to the fact that subelements of Submodel Purchase Order Creation can be re-used in various contexts, the specified SMC's in section 3 can be used within other Submodels. In this way the parent Submodel can utilize standardized means of purchase order scenarios.

## Annex A: Explanations on used table formats

### General

The used tables in this document try to outline information as concise as possible. They do not convey all information on Submodels and SubmodelElements. For this purpose, the definitive definitions are given by a separate file in form of an AASX file of the Submodel template and its elements.

### Tables on Submodels and SubmodelElements

For clarity and brevity, a set of rules is used for the tables for describing Submodels and SubmodelElements.

- The tables follow in principle the same conventions as in [5].
- The table heads abbreviate 'cardinality' with 'card'.
- The tables often place two informations in different rows of the same table cell. In this case, the first information is marked out by sharp brackets [] from the second information. A special case are the semanticIds, which are marked out by the format: (type)(local)[idType]value.
- The types of SubmodelElements are abbreviated: SME

SME type Submodel	Element type
Property	Property
MLP	MultiLanguageProperty
Range	Range
File	File
Blob	Blob
Ref	ReferenceElement
Rel	RelationshipElement
SMC	SubmodelElementCollection

- If an idShort ends with '{00}', this indicates a suffix of the respective length (here: 2) of decimal digits, in order to make the idShort unique. A different idShort might be chosen, as long as it is unique in the parent's context.
- The Keys of semanticId in the main section feature only idType and value, such as: [IRI]https://admin-shell.io/vdi/2770/1/0/DocumentId/Id. The attributes "type" and "local" (typically "ConceptDescription" and "(local)" or "GlobalReference" and "(no-local)") need to be set accordingly; see [6].
- If a table does not contain a column with "parent" heading, all represented attributes share the same parent. This parent is denoted in the head of the table.
- Multi-language strings are represented by the text value, followed by '@'-character and the ISO 639 language code: example@de.
- The [valueType] is only given for Properties.

## Bibliography

- [1] "Recommendations for implementing the strategic initiative INDUSTRIE 4.0", acatech, April 2013. [Online]. Available: <https://www.acatech.de/Publikation/recommendations-for-implementing-the-strategic-initiative-industrie-4-0-final-report-of-the-industrie-4-0-working-group/>
- [2] "Implementation Strategy Industrie 4.0: Report on the results of the Industrie 4.0 Platform"; BITKOM e.V. / VDMA e.V., /ZVEI e.V., April 2015. [Online]. Available: <https://www.bitkom.org/noindex/Publikationen/2016/Sonstiges/Implementation-Strategy-Industrie-40/2016-01-Implementation-Strategy-Industrie40.pdf>
- [3] "The Structure of the Administration Shell: TRILATERAL PERSPECTIVES from France, Italy and Germany", March 2018, [Online]. Available: <https://www.plattform-i40.de/I40/Redaktion/EN/Downloads/Publikation/hm-2018-trilaterale-coop.html>
- [4] "Beispiele zur Verwaltungsschale der Industrie 4.0-Komponente – Basisteil (German)"; ZVEI e.V., Whitepaper, November 2016. [Online]. Available: <https://www.zvei.org/presse-medien/publikationen/beispiele-zur-verwaltungsschale-der-industrie-40-komponente-basisteil/>
- [5] "Verwaltungsschale in der Praxis. Wie definiere ich Teilmodelle, beispielhafte Teilmodelle und Interaktion zwischen Verwaltungsschalen (in German)", Version 1.0, April 2019, Plattform Industrie 4.0 in Kooperation mit VDE GMA Fachausschuss 7.20, Federal Ministry for Economic Affairs and Energy (BMWi), Available: <https://www.plattform-i40.de/PI40/Redaktion/DE/Downloads/Publikation/2019-verwaltungsschale-in-der-praxis.html>
- [6] "Details of the Asset Administration Shell; Part 1 - The exchange of information between partners in the value chain of Industrie 4.0 (Version 3.0RC01)", November 2020, [Online]. Available: <https://www.plattform-i40.de/PI40/Redaktion/EN/Downloads/Publikation/Details-of-the-Asset-Administration-Shell-Part1.html>
- [7] "Semantic interoperability: challenges in the digital transformation age"; IEC, International Electrotechnical Commission; 2019. [Online]. Available: <https://basecamp.iec.ch/download/iec-white-paper-semantic-nteroperability-challenges-in-the-digital-transformation-age-en/>
- [8] VDA 4901: Basic concepts for data exchange in the supply chain V1.0 2019-12, German Association of the Automotive Industry (VDA) [Online]: <https://www.vda.de/de/aktuelles/publikationen/publication/vda-4901---grundbegriffe-zum-datenaustausch-in-der-lieferkette-v1.0-2019-12>
- [9] UN/EDIFACT: United Nations rules for Electronic Data Interchange for Administration, Commerce and Transport. [Online]: <https://unece.org/trade/uncefact/introducing-unedifact>
- [10] OpenTRANS: Specification and Documentation, Version 2.1, Fraunhofer IAO. 2009. [Online]: <https://www.digital.iao.fraunhofer.de/de/publikationen/OpenTRANS21.html>
- [11] cXML Ariba: Ariba Inc., 2000 [Online]: [https://xml.cxml.org/schemas/cXML/1.1.009/cXMLUsersGuide\\_de.pdf](https://xml.cxml.org/schemas/cXML/1.1.009/cXMLUsersGuide_de.pdf)
- [12] SAP 4/HANA: SAP AG, Walldorf [Online]: <https://www.sap.com/germany/products/erp/s4hana.html#technical-information>
- [13] IDTA Submodel Generic Frame for Technical Data for Industrial Equipment in Manufacturing (Version 1.2): IDTA 2022: [ONLINE]: [https://github.com/admin-shell-io/submodel-templates/tree/main/published/Technical\\_Data/1/2](https://github.com/admin-shell-io/submodel-templates/tree/main/published/Technical_Data/1/2)
- [14] IDTA Submodel Capability (Version 1.0): IDTA 2022: [ONLINE]: <https://github.com/admin-shell-io/submodel-templates/tree/main/development/Capability/1/0>