



Interopera

Digitale Interoperabilität in kollaborativen
Wertschöpfungsnetzwerken der Industrie 4.0

SPECIFICATION

Purchase Request Notification

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Submodel Template of the
Asset Administration Shell

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The Submodel Specification contains ECLASS. The ECLASS terms of use apply (<https://eclass.eu/eclass-standard/nutzungsbedingungen>).

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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 Request Notification 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 Request Notification aims to provide a standardized property structure for purchase requests 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 request notification 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 requests or requests for quotations, 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 Request Notification** 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 Request Notification

For the definition of the Submodel Purchase Request Notification 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.

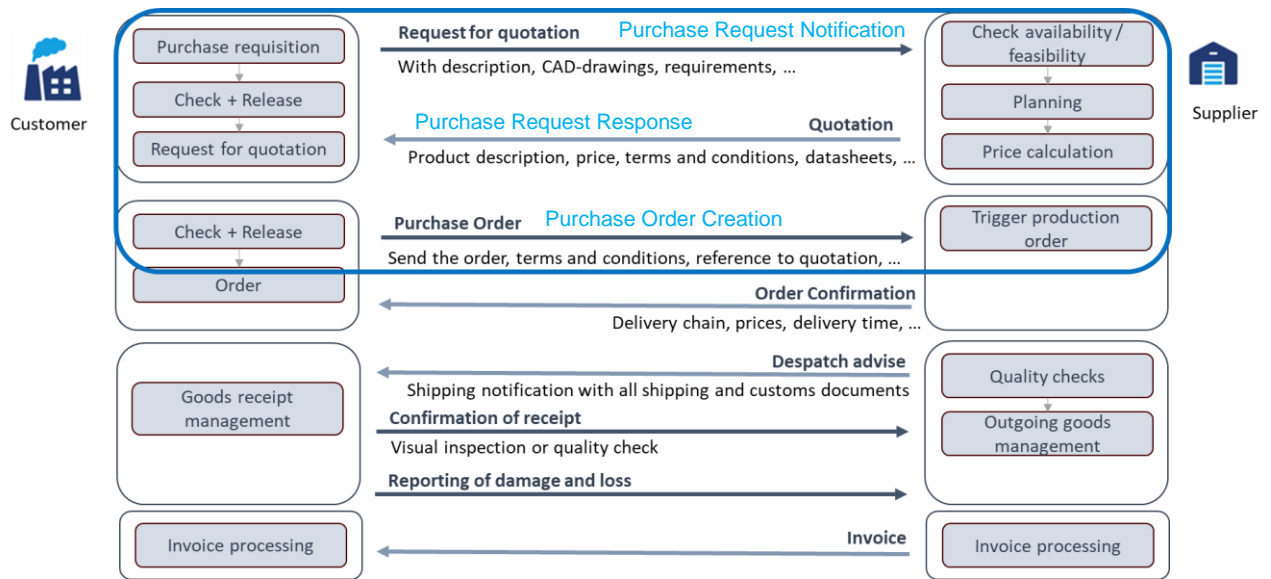


Figure 1: Overview on purchase order process and fulfillment. The scope of the three Submodels Purchase Request Notification, Purchase Request Response and Purchase Order Creation is highlighted in blue.

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.

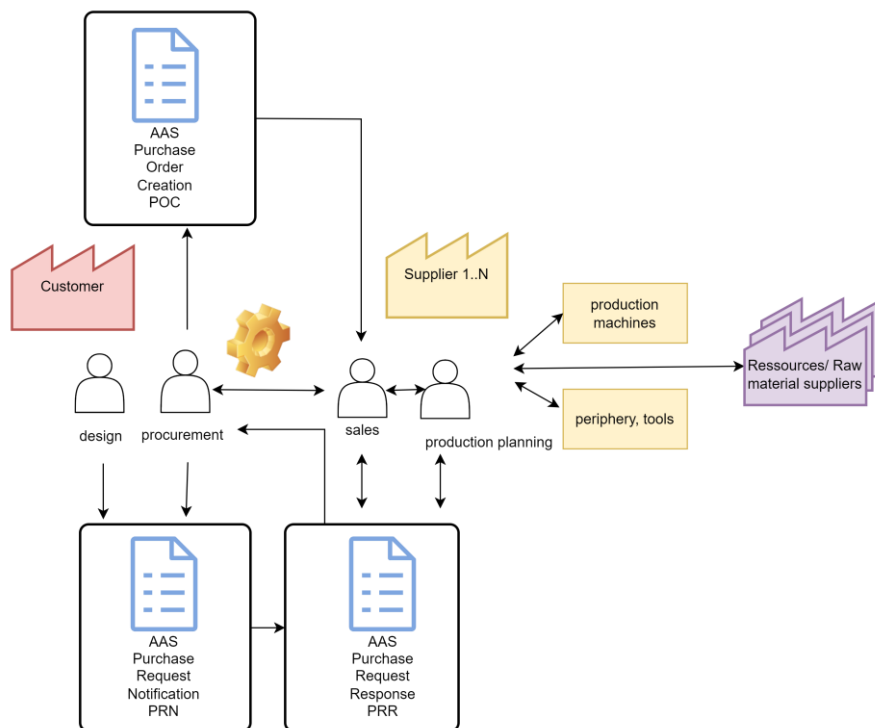


Figure 2: Overview on the interactions of the Submodel Purchase Request notification with Submodels Purchase Request Response and Purchase Order Creation.

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.

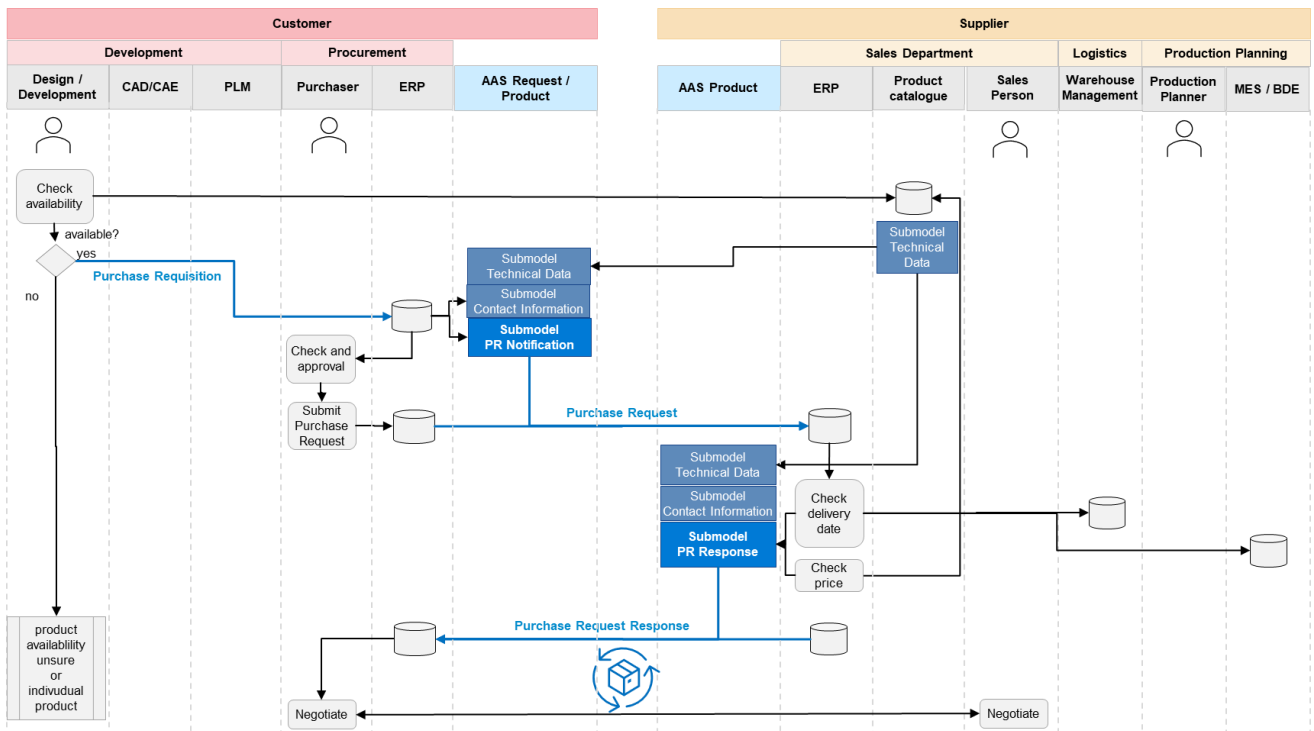


Figure 3: Process of ordering an out-of-shelf product (Scenario 1)

InterOpera | Purchase Request Notification

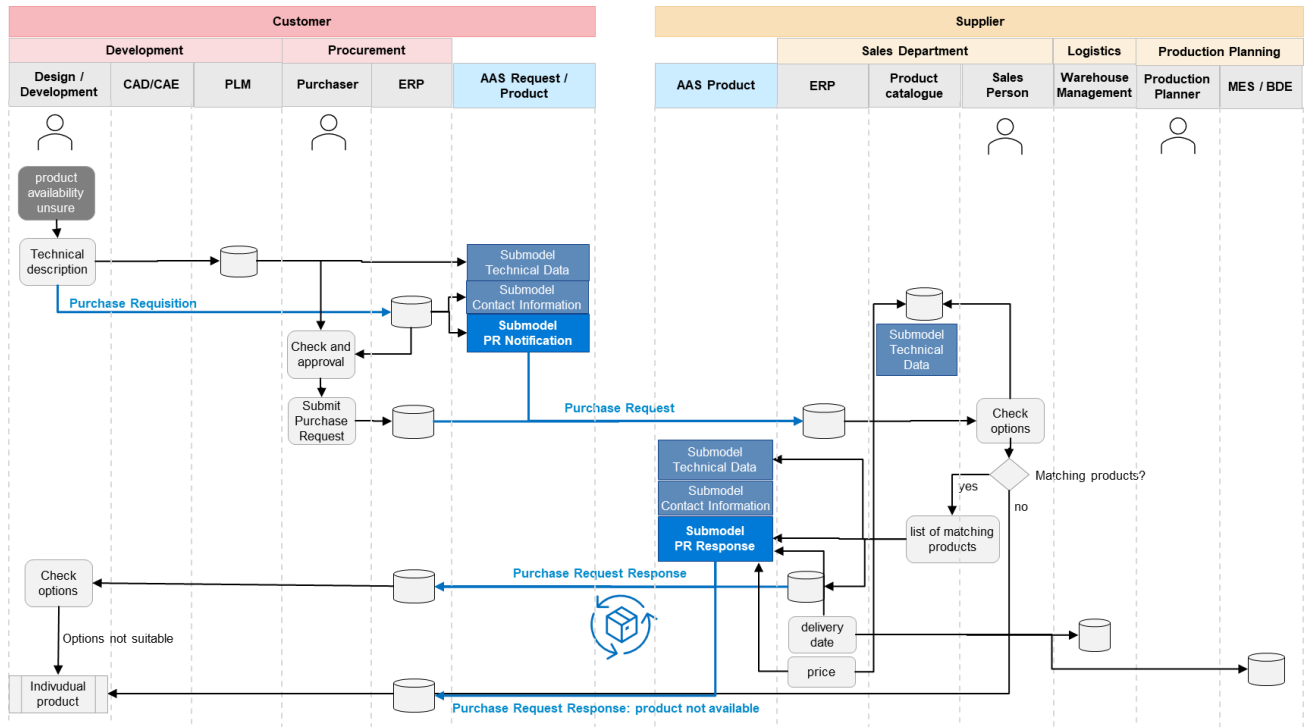


Figure 4: Purchase request process, if it is unsure whether an existing product fits the request or not. (Scenario 2)

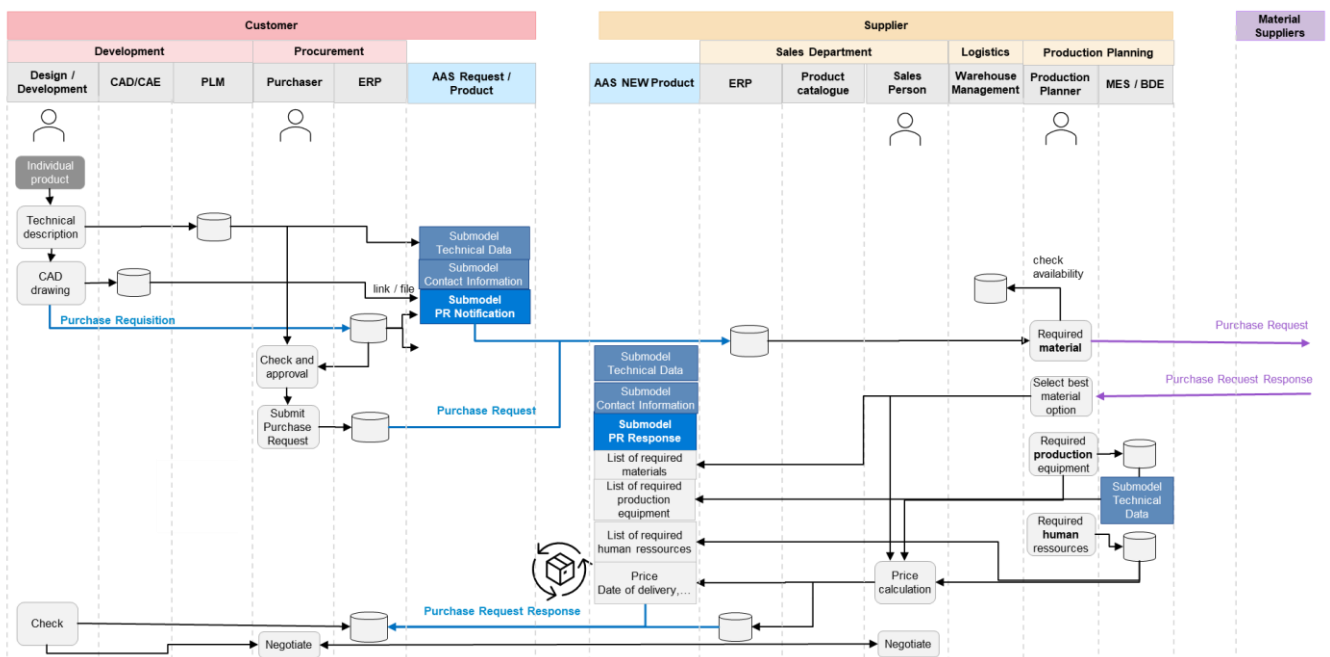


Figure 5: Purchase request process for individual / not existing products (Scenario 3)

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.

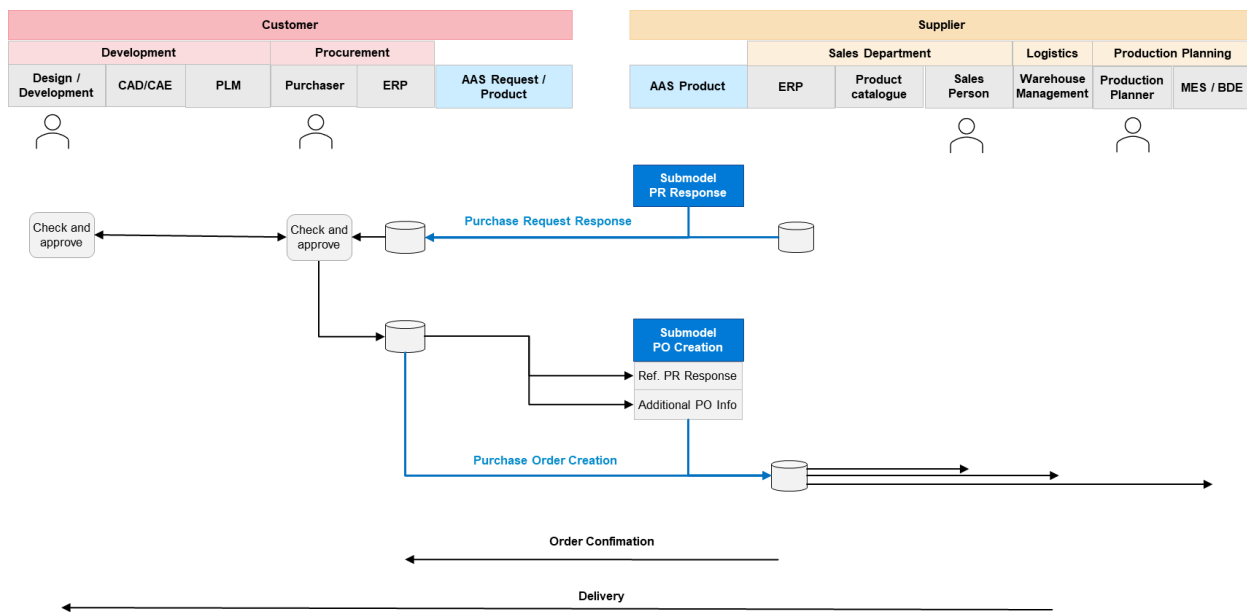


Figure 6: Process of the purchase order according based on the purchase request response (quotation)

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

Request Information

The SMC RequestInformation is the header of the purchase request notification 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 RequestInformation 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 RequestInformation) 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 (RequestItemList 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 request 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.

Request Items

The items which are subject of the purchase request are described in the SMC RequestItemList. 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 an AAS of an existing item or an AAS of an item that does not yet exist.

Property specification

See section 3 Submodel and Collections on the following pages.

3 Submodel and Collections

3.1 Properties of the Submodel "Purchase Request Notification"

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 Request Notification** describes a purchase request that leads to a request message in a standardized form.

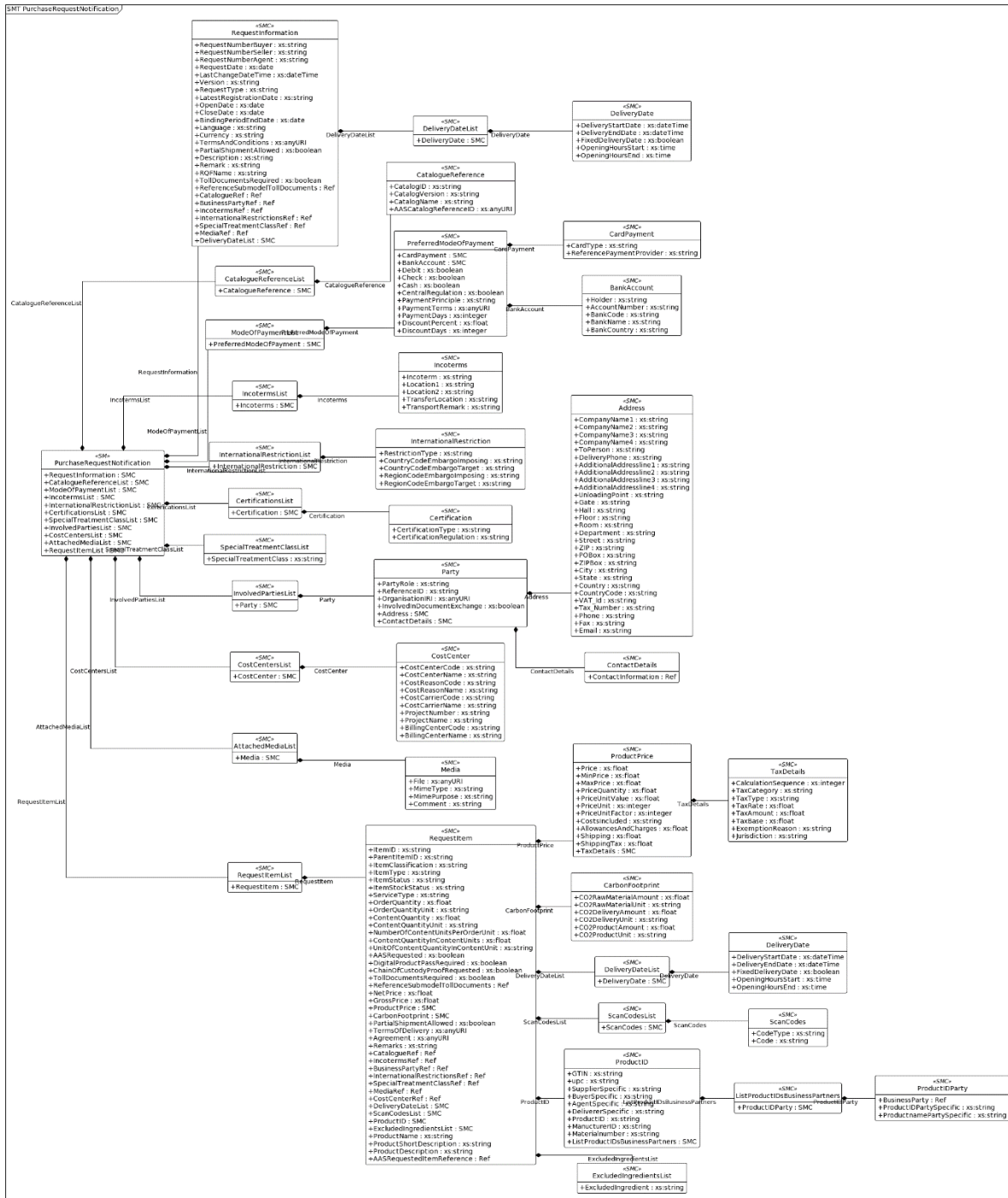


Figure 7: UML-Diagram for Submodel "Purchase Request Notification"

Table 2: Properties of Submodel "Purchase Request Notification "

idShort:	PurchaseRequestNotification		
Class:	Submodel		
semanticId:	[IRI] https://example.com/ids/sm/5187-4691-3873-8407		
isCaseOf	-		
AllowDuplicates	-		
Parent	PurchaseRequestNotification		
Explanation	The Submodel PurchaseRequestNotification allows the standardized definition of a purchase request from a buyer to a supplier via the Asset Administration Shell. @en, Das Teilmodell PurchaseRequestNotification erlaubt die standardisierte Definition einer Bestellanfrage eines Käufers an einen Lieferanten in über die Verwaltungsschale. @de		
[SME type]	semanticId = [idType]value	[valueType]	card.
idShort	Description@en	example	
[SMC] RequestInformation	[IRI] https://example.com/ids/cd/6962-0717-4638-6248 preferredName @en: Request Information preferredName @de: Anfrageinformationen definition @en: General information about the purchase request, often also called quote request definition @de: Allgemeine Informationen zur Bestellanfrage bzw. Angebotsanfrage description @en: General information about the purchase request, often also called quote request description @de: Allgemeine Informationen zur Bestellanfrage bzw. Angebotsanfrage	[-] 25 elements	1
[SMC] CatalogueReferenceList	[IRI] https://example.com/ids/cd/4417-7676-8216-3479 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] https://example.com/ids/cd/4000-1770-4266-7971 preferredName @en: Mode of payment list preferredName @de: Bezahlmethodenliste	[-] 1 elements	0..1

	<p>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.</p> <p>definition @de: Liste von Bezahlmöglichkeiten 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 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 Bezahlmöglichkeiten auf die im Geschäftsdokument referenziert werden sollen. Die Referenzierung kann im allgemeinen Teil oder für jedes Item separat erfolgen.</p>		
[SMC] IncotermsList	<p>[IRI] https://example.com/ids/cd/1293-2488-2965-6530</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] https://example.com/ids/cd/6435-6143-7395-8504</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] https://example.com/ids/cd/1904-3261-2120-0020</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>	[-] 1 elements	0..1

	<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 Zertifizierungen oder Zulassungsvorschriften. Die Referenzierung kann im allgemeinen Teil oder für jedes Item separat erfolgen.</p>		
[SMC] SpecialTreatmentClassList	<p>[IRI] https://example.com/ids/cd/5998-1917-5001-0928</p> <p>preferredName @en: Special treatment class list</p> <p>preferredName @de: Warenbehandlungsklassenliste</p> <p>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.</p> <p>definition @de: Liste von Sonderbehandlungsklassen 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 special treatment classes 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 Sonderbehandlungsklassen 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] InvolvedPartiesList	<p>[IRI] https://example.com/ids/cd/3208-2275-3712-5361</p> <p>preferredName @en: Involved parties list</p> <p>preferredName @de: Beteiligte Parteienliste</p> <p>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.</p> <p>definition @de: Liste beteiligter Geschäftsparteien 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 involved business parties 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 beteiligter Geschäftsparteien auf die im Geschäftsdokument referenziert werden sollen. Die Referenzierung kann im allgemeinen Teil oder für jedes Item separat erfolgen.</p>	[-] 1 elements	1
[SMC] CostCentersList	<p>[IRI] https://example.com/ids/cd/6671-3011-2433-1935</p> <p>preferredName @en: Cost centers list</p> <p>preferredName @de: Kostenstellenliste</p> <p>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.</p> <p>definition @de: Liste von Kostenstellen 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 cost centers 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 Kostenstellen auf die im</p>	[-] 1 elements	0..1

	Geschäftsdokument referenziert werden sollen. Die Referenzierung kann im allgemeinen Teil oder für jedes Item separat erfolgen.		
[SMC] AttachedMediaList	<p>[IRI] https://example.com/ids/cd/2839-4873-8128-5745 preferredName @en: Attached media list preferredName @de: Liste angefügter Medien</p> <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. 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. 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>	[-] 1 elements	0..1
[SMC] RequestItemList	<p>[IRI] https://example.com/ids/cd/4242-8791-1195-3820 preferredName @en: Request item list preferredName @de: Liste der Elemente der Bestellanfrage</p> <p>definition @en: Bill of material of purchase request definition @de: Stückliste zur Bestellanfrage</p> <p>description @en: Bill of material of purchase request description @de: Stückliste zur Bestellanfrage</p>	[-] 1 elements	1

3.2 Properties of the SMC “RequestInformation”

Table 3: Properties of SMC “RequestInformation”

idShort:	RequestInformation		
Class:	SubmodelElementCollection		
semanticId:	[IRI] https://example.com/ids/cd/6962-0717-4638-6248		
isCaseOf	-		
AllowDuplicates	-		
Parent	RequestInformation		
Explanation	General information about the purchase request, often also called quote request@en, Allgemeine Informationen zur Bestellanfrage bzw. Angebotsanfrage@de		

[SME type]	semanticId = [idType]value	[valueType]	card.
idShort	Description@en	example	
[Prop] RequestNumberBuyer	[IRI] https://example.com/ids/cd/1838-8774-5349-3136 preferredName @en: Order request number buyer preferredName @de: Bestellanfragenummer Käufer definition @en: Purchase request number of the buyer definition @de: Bestellanfragenummer seitens des Käufers description @en: Purchase request number of the buyer description @de: Bestellanfragenummer seitens des Käufers	[String]	1
[Prop] RequestNumberSeller	[IRI] https://example.com/ids/cd/0751-2855-4878-9214 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	[String]	0..1
[Prop] RequestNumberAgent	[IRI] https://example.com/ids/cd/8334-4564-7813-2400 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	[String]	0..1
[Prop] RequestDate	[IRI] https://example.com/ids/cd/4210-2194-8474-2803 preferredName @en: Date of order request preferredName @de: Datum der Bestellanfrage definition @en: Date of purchase request definition @de: Datum der Bestellanfrage description @en: Date of purchase request description @de: Datum der Bestellanfrage	[Date]	1
[Prop] LastChangeDateTime	[IRI] https://example.com/ids/cd/2369-1987-9751-5504 preferredName @en: Date and time of last change preferredName @de: Zeitpunkt der letzten Änderung definition @en: Date and time of last change definition @de: Zeitpunkt der letzten Änderung	[DateTime]	0..1

	<p>description @en: Date and time of last change description @de: Zeitpunkt der letzten Änderung</p>		
[Prop] Version	<p>[IRI] https://example.com/ids/cd/6402-3848-3050-6742 preferredName @en: Order request version preferredName @de: Bestellanfrageversion</p> <p>definition @en: Purchase order request version definition @de: Version der Bestellanfrage</p> <p>description @en: Purchase order request version description @de: Version der Bestellanfrage</p>	[String]	1
[Prop] RequestType	<p>[IRI] https://example.com/ids/cd/6391-1635-4912-6866 preferredName @en: Request type preferredName @de: Anfragetyp</p> <p>definition @en: Type of purchase request (new, update, delete) definition @de: Typ der Bestellanfrage (new, update, delete)</p> <p>description @en: Type of purchase request (new, update, delete) description @de: Typ der Bestellanfrage (new, update, delete)</p>	[String]	0..1
[Prop] LatestRegistrationDate	<p>[IRI] https://example.com/ids/cd/5519-4499-7210-8870 preferredName @en: Last registration date preferredName @de: Letztes Registrierungsdatum</p> <p>definition @en: The latest date of registration of a bidder in a bidding process definition @de: Das späteste Datum der Registrierung eines Bieters für ein Bieterverfahren</p> <p>description @en: The latest date of registration of a bidder in a bidding process description @de: Das späteste Datum der Registrierung eines Bieters für ein Bieterverfahren</p>	[String]	0..1
[Prop] OpenDate	<p>[IRI] https://example.com/ids/cd/5241-5891-0709-0886 preferredName @en: Order request start date preferredName @de: Startdatum Bestellanfrage</p> <p>definition @en: The date the Purchase Request is open for suppliers to respond definition @de: Das Datum, an dem die Bestellanfrage für Lieferanten zur Beantwortung geöffnet ist</p> <p>description @en: The date the Purchase Request is open for suppliers to respond description @de: Das Datum, an dem die Bestellanfrage für Lieferanten zur Beantwortung geöffnet ist</p>	[Date]	1
[Prop] CloseDate	<p>[IRI] https://example.com/ids/cd/0525-6837-6096-6404 preferredName @en: Order request end date preferredName @de: Enddatum Bestellanfrage</p> <p>definition @en: The date the Purchase request is closed for supplier responses</p>	[Date]	1

	<p>definition @de: Das Datum, an dem die Bestellanfrage für Lieferantenantworten geschlossen wird</p> <p>description @en: The date the Purchase request is closed for supplier responses</p> <p>description @de: Das Datum, an dem die Bestellanfrage für Lieferantenantworten geschlossen wird</p>		
[Prop] BindingPeriodEndDate	<p>[IRI] https://example.com/ids/cd/2937-1675-4407-4686</p> <p>preferredName @en: End of commitment period</p> <p>preferredName @de: Ende Bindungszeitraum</p> <p>definition @en: Binding period validity end date</p> <p>definition @de: Enddatum der Gültigkeit des Bindungszeitraums</p> <p>description @en: Binding period validity end date</p> <p>description @de: Enddatum der Gültigkeit des Bindungszeitraums</p>	[Date]	1
[Prop] Language	<p>[IRI] https://example.com/ids/cd/9956-0758-5657-5272</p> <p>preferredName @en: Language</p> <p>preferredName @de: Sprache</p> <p>definition @en: Specification of used language: the default language of all language-dependent information</p> <p>definition @de: Angabe der verwendeten Sprache: Die Standardsprache aller sprachabhängigen Informationen</p> <p>description @en: Specification of used language: the default language of all language-dependent information</p> <p>description @de: Angabe der verwendeten Sprache: Die Standardsprache aller sprachabhängigen Informationen</p>	[String]	1
[Prop] Currency	<p>[IRI] https://example.com/ids/cd/2730-7160-8669-0263</p> <p>preferredName @en: Currency</p> <p>preferredName @de: Währung</p> <p>definition @en: The currency used. Must be a three-letter ISO currency code.</p> <p>definition @de: Die verwendete Währung. Muss aus drei Buchstaben des ISO-Währungs_codes bestehen.</p> <p>description @en: The currency used. Must be a three-letter ISO currency code.</p> <p>description @de: Die verwendete Währung. Muss aus drei Buchstaben des ISO-Währungs_codes bestehen.</p>	[String]	1
[Prop] TermsAndConditions	<p>[IRI] https://example.com/ids/cd/0483-6321-4445-1877</p> <p>preferredName @en: Terms and Conditions</p> <p>preferredName @de: Geschäftsbedingungen</p> <p>definition @en: General terms and conditions</p> <p>definition @de: Allgemeine Geschäftsbedingungen</p> <p>description @en: General terms and conditions</p> <p>description @de: Allgemeine Geschäftsbedingungen</p>	[AnyUri]	0..1

<p>[Prop] PartialShipmentAllowed</p>	<p>[IRI] https://example.com/ids/cd/0880-1787-5127-4400 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>	<p>[Boolean]</p>	<p>1</p>
<p>[Prop] Description</p>	<p>[IRI] https://example.com/ids/cd/7505-1665-0538-3228 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 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>	<p>[String]</p>	<p>0..1</p>
<p>[Prop] Remark</p>	<p>[IRI] https://example.com/ids/cd/6517-9002-5389-5129 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>	<p>[String]</p>	<p>0..*</p>
<p>[Prop] RQFName</p>	<p>[IRI] https://example.com/ids/cd/9789-3053-4147-6391 preferredName @en: Request for quotation name preferredName @de: Bestellanfragenname</p> <p>definition @en: Name of the purchase request definition @de: Bezeichnung der Bestellanfrage</p> <p>description @en: Name of the purchase request description @de: Bezeichnung der Bestellanfrage</p>	<p>[String]</p>	<p>0..1</p>
<p>[Prop] TollDocumentsRequired</p>	<p>[IRI] https://example.com/ids/cd/1315-5485-4508-5182 preferredName @en: Toll documents required preferredName @de: Zolldokumente erforderlich</p> <p>definition @en: Boolean value, indicating whether toll</p>	<p>[Boolean]</p>	<p>0..1</p>

	<p>documents are required definition @de: Boolscher Wert der angibt, ob Zolldokumente erforderlich ist</p> <p>description @en: Boolean value, indicating whether toll documents are required description @de: Boolscher Wert der angibt, ob Zolldokumente erforderlich ist</p>		
[Ref] ReferenceSubmodelTollDocuments	<p>[IRI] https://example.com/ids/cd/9901-9710-8091-5659 preferredName @en: Reference to submodell toll document 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>	[-]	0..N
[Ref] CatalogueRef	<p>[IRI] https://example.com/ids/cd/4329-3726-6986-8615 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>	[-]	0..1
[Ref] BusinessPartyRef	<p>[IRI] https://example.com/ids/cd/9041-5445-4967-4221 preferredName @en: Shipment parties reference preferredName @de: Referenz auf Sendungsparteien</p> <p>definition @en: Reference to a business party, e.q. 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. 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.q. 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. description @de: Referenz auf eine Geschäftspartei, z.B. Lieferunternehmen, die in der SMC PartiesList definiert ist.</p>	[-]	0..*

	Kann im allgemeinen Teil oder im Item referenziert werden.		
[Ref] IncotermsRef	<p>[IRI] https://example.com/ids/cd/7163-0541-5942-4277 preferredName @en: Incoterms referrence 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. 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. 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] https://example.com/ids/cd/5413-5482-9350-2005 preferredName @en: International 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>	[-]	0..*
[Ref] SpecialTreatmentClassRef	<p>[IRI] https://example.com/ids/cd/2547-4480-0898-2903 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</p>	[-]	0..*

	definiert sind. Kann im allgemeinen Teil oder im Item referenziert werden.		
[Ref] MediaRef	<p>[IRI] https://example.com/ids/cd/7212-4393-2460-1082 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..*
[SMC] DeliveryDateList	<p>[IRI] https://example.com/ids/cd/4377-7293-5351-6683 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	0..1

3.3 Properties of the SMC “DeliveryDateList”

Table 4: Properties of SMC “DeliveryDateList”

idShort:	DeliveryDateList		
Class:	SubmodelElementCollection		
semanticId:	[IRI] https://example.com/ids/cd/4377-7293-5351-6683		
isCaseOf	-		
AllowDuplicates	-		
Parent	DeliveryDateList		

Explanation	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		
[SME type]	semanticId = [idType]value	[valueType]	card.
idShort	Description@en	example	
[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..*

3.4 Properties of the SMC “DeliveryDate”

Table 5: Properties of SMC “DeliveryDate”

idShort:	DeliveryDate		
Class:	SubmodelElementCollection		
semanticId:	[IRI] https://example.com/ids/cd/8627-9456-1124-8971		
isCaseOf	-		
AllowDuplicates	-		
Parent	DeliveryDate		
Explanation	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] https://example.com/ids/cd/6283-8026-7314-1051 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 = DeliveryEndDate gesetzt.	[DateTime]	1

	<p>description @en: Unique date for the start of the delivery period. If an exact delivery date has to be determined, DeliveryStartDate = DeliveryEndDate is set.</p> <p>description @de: Eindeutiges Datum für den Beginn des Lieferzeitraums. Wenn ein genauer Liefertermin ermittelt werden muss, wird DeliveryStartDate = Delivery EndDate gesetzt.</p>		
[Prop] DeliveryEndDate	<p>[IRI] https://example.com/ids/cd/4503-3474-9702-0875</p> <p>preferredName @en: Delivery end date</p> <p>preferredName @de: Lieferdatum Ende</p> <p>definition @en: Unique date for the end of the delivery period. If an exact delivery date has to be determined, DeliveryStartDate = DeliveryEndDate is set.</p> <p>definition @de: Eindeutiges Datum für das Ende eines Lieferzeitraums. Wenn ein genauer Liefertermin ermittelt werden muss, wird DeliveryStartDate = Delivery EndDate gesetzt.</p> <p>description @en: Unique date for the end of the delivery period. If an exact delivery date has to be determined, DeliveryStartDate = DeliveryEndDate is set.</p> <p>description @de: Eindeutiges Datum für das Ende eines Lieferzeitraums. Wenn ein genauer Liefertermin ermittelt werden muss, wird DeliveryStartDate = Delivery EndDate gesetzt.</p>	[DateTime]	1
[Prop] FixedDeliveryDate	<p>[IRI] https://example.com/ids/cd/5443-9392-1270-5551</p> <p>preferredName @en: Fixed delivery date</p> <p>preferredName @de: Festes Lieferdatum</p> <p>definition @en: The date given is to be interpreted by the recipient as a fixed specified delivery date.</p> <p>definition @de: Der angegebene Termin ist vom Empfänger als fest vorgegebener Liefertermin zu interpretieren.</p> <p>description @en: The date given is to be interpreted by the recipient as a fixed specified delivery date.</p> <p>description @de: Der angegebene Termin ist vom Empfänger als fest vorgegebener Liefertermin zu interpretieren.</p>	[Boolean]	1
[Prop] OpeningHoursStart	<p>[IRI] https://example.com/ids/cd/5772-7156-9304-1963</p> <p>preferredName @en: Opening hours start</p> <p>preferredName @de: Öffnungszeiten Beginn</p> <p>definition @en: Time at the start of regular opening hours on working days.</p> <p>definition @de: Zeitangabe zum Beginn der regulären Öffnungszeiten an Werktagen.</p> <p>description @en: Time at the start of regular opening hours on working days.</p> <p>description @de: Zeitangabe zum Beginn der regulären Öffnungszeiten an Werktagen.</p>	[Time]	0..1
[Prop] OpeningHoursEnd	<p>[IRI] https://example.com/ids/cd/5039-9797-9525-4226</p> <p>preferredName @en: Opening hours end</p> <p>preferredName @de: Öffnungszeiten Ende</p> <p>definition @en: Time at the end of regular opening hours on working days.</p> <p>definition @de: Zeitangabe zum Ende der regulären Öffnungszeiten an Werktagen.</p>	[Time]	0..1

	<p>description @en: Time at the end of regular opening hours on working days.</p> <p>description @de: Zeitangabe zum Ende der regulären Öffnungszeiten an Werktagen.</p>		
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3.5 Properties of the SMC “CatalogueReferenceList”

Table 6: Properties of SMC “CatalogueReferenceList”

idShort:	CatalogueReferenceList		
Class:	SubmodelElementCollection		
semanticId:	[IRI] https://example.com/ids/cd/4417-7676-8216-3479		
isCaseOf	-		
AllowDuplicates	-		
Parent	CatalogueReferenceList		
Explanation	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		
[SME type]	semanticId = [idType]value	[valueType]	card.
idShort	Description@en	example	
[SMC] CatalogueReference	<p>[IRI] https://example.com/ids/cd/2156-8024-3690-4169</p> <p>preferredName @en: Catalogue reference</p> <p>preferredName @de: Katalog Referenz</p> <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>	[-] 4 elements	0..*

3.6 Properties of the SMC “CatalogueReference”

Table 7: Properties of SMC “CatalogueReference”

idShort:	CatalogueReference		
Class:	SubmodelElementCollection		
semanticId:	[IRI] https://example.com/ids/cd/2156-8024-3690-4169		
isCaseOf	-		
AllowDuplicates	-		
Parent	CatalogueReference		
Explanation	Information about a catalog to reference in the business document. Can also be used as a reference to a proce 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		
[SME type]	semanticId = [idType]value	[valueType]	card.
idShort	Description @en	example	
[Prop] CatalogID	[IRI] https://example.com/ids/cd/5647-7612-2411-8715 preferredName @en: Catalog ID preferredName @de: Katalog ID 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. 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. 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. 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.	[String]	1
[Prop] CatalogVersion	[IRI] https://example.com/ids/cd/3857-1518-5654-6209 preferredName @en: Catalog version preferredName @de: Katalog Version definition @en: Version number of the catalog. definition @de: Versionsnummer des Katalogs. description @en: Version number of the catalog. description @de: Versionsnummer des Katalogs.	[String]	1
[Prop] CatalogName	[IRI] https://example.com/ids/cd/8025-9594-5427-8002 preferredName @en: Catalog name preferredName @de: Katalogname	[String]	0..1

	definition @en: Name of the catalogue definition @de: Name des Katalogs description @en: Name of the catalogue description @de: Name des Katalogs		
[Prop] AASCatalogReferenceID	[IRI] https://example.com/ids/cd/4005-3286-4890-4101 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: Base ID of an AAS that represents the catalog description @de: Basis ID einer AAS, die den Katalog abbildet	[AnyUri]	0..1

3.7 Properties of the SMC “ModeOfPaymentList”

Table 8: Properties of SMC “ModeOfPaymentList”

idShort:	ModeOfPaymentList		
Class:	SubmodelElementCollection		
semanticId:	[IRI] https://example.com/ids/cd/4000-1770-4266-7971		
isCaseOf	-		
AllowDuplicat	-		
Parent	ModeOfPaymentList		
Explanation	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		
[SME type]	semanticId = [idType]value	[valueType]	card.
idShort	Description @en	example	
[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..*

3.8 Properties of the SMC “ModeOfPayment”

Table 9: Properties of SMC “ModeOfPayment”

idShort:	ModeOfPayment		
Class:	SubmodelElementCollection		
semanticId:	[IRI] https://example.com/ids/cd/3694-6553-5874-1760		
isCaseOf	-		
AllowDuplicates	-		
Parent	ModeOfPayment		
Explanation	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		
[SME type]	semanticId = [idType]value	[valueType]	card.
idShort	Description@en	example	
[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] https://example.com/ids/cd/9193-5476-7679-6377 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] https://example.com/ids/cd/9675-5178-9634-8241 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] https://example.com/ids/cd/2854-2994-7589-4799 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] https://example.com/ids/cd/5783-2936-4003-9356 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] https://example.com/ids/cd/4321-3905-0900-8960 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 description @en: Indicates if the payment process is transacted via a centralized settlement description @de: Gibt an, ob der Zahlungsvorgang über eine zentrale Abwicklung abgewickelt wird	[Boolean]	0..1
[Prop] PaymentPrinciple	[IRI] https://example.com/ids/cd/9027-4259-7944-3949 preferredName @en: Payment principle preferredName @de: Zahlungsprinzip definition @en: Information about the payment principle, e.g. pre-payment, payment on delivery, partial payment definition @de: Informationen zur Zahlungsweise, z.B. Vorauszahlung, Zahlung bei Lieferung, Teilzahlung description @en: Information about the payment principle, e.g. pre-payment, payment on delivery, partial payment description @de: Informationen zur Zahlungsweise, z.B. Vorauszahlung, Zahlung bei Lieferung, Teilzahlung	[String]	0..1
[Prop] PaymentTerms	[IRI] https://example.com/ids/cd/8165-1448-4827-5367 preferredName @en: PaymentTerms preferredName @de: Zahlungsbedingungen	[AnyUri]	0..1

	<p>definition @en: Information to payment terms definition @de: Informationen zu Zahlungsbedingungen</p> <p>description @en: Information to payment terms description @de: Informationen zu Zahlungsbedingungen</p>		
[Prop] PaymentDays	<p>[IRI] https://example.com/ids/cd/0242-0424-2898-2239 preferredName @en: PaymentDays preferredName @de: Tage bis zur Bezahlung</p> <p>definition @en: Number of days within which payment has to be made. 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. description @de: Anzahl der Tage innerhalb denen die Bezahlung erfolgen muss.</p>	[Integer]	0..1
[Prop] DiscountPercent	<p>[IRI] https://example.com/ids/cd/0382-5703-6404-5073 preferredName @en: DiscountPercent preferredName @de: Skonto Prozent</p> <p>definition @en: Percentage for cash discount definition @de: Prozentsatz für Skonto</p> <p>description @en: Percentage for cash discount description @de: Prozentsatz für Skonto</p>	[Float]	0..1
[Prop] DiscountDays	<p>[IRI] https://example.com/ids/cd/5442-4989-0151-5804 preferredName @en: DiscountDays preferredName @de: Skonto Tage</p> <p>definition @en: Validity period for cash discount definition @de: Gültigkeitszeitraum für Skonto</p> <p>description @en: Validity period for cash discount description @de: Gültigkeitszeitraum für Skonto</p>	[Integer]	0..1

3.9 Properties of the SMC “CardPayment”

Table 10: Properties of SMC “CardPayment”

idShort:	CardPayment		
Class:	SubmodelElementCollection		
semanticId:	[IRI] https://example.com/ids/cd/8102-7271-5772-7813		
isCaseOf	-		
AllowDuplicates	-		
Parent	CardPayment		
Explanation	Use of credit cards, purchase cards etc@en,Nutzung von Kreditkarten, Einkaufskarten etc@de		
[SME type]	semanticId = [idType]value	[valueType]	card.
idShort	Description@en	example	

[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

3.10 Properties of the SMC “BankAccount”

Table 11: Properties of SMC “BankAccount”

idShort:	BankAccount		
Class:	SubmodelElementCollection		
semanticId:	[IRI] https://example.com/ids/cd/9193-5476-7679-6377		
isCaseOf	-		
AllowDuplicates	-		
Parent	BankAccount		
Explanation	Bank account details@en,Bankverbindung@de		
[SME type]	semanticId = [idType]value	[valueType]	card.
idShort	Description@en	example	
[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	[String]	1

	<p>definition @de: Code zur Identifizierung eines Bankkontos, z.B. Kontonummer, IBAN</p> <p>description @en: Code to identify a bank account</p> <p>description @de: Code zur Identifizierung eines Bankkontos, z.B. Kontonummer, IBAN</p>		
[Prop] BankCode	<p>[IRI] https://example.com/ids/cd/9222-7046-7553-4553</p> <p>preferredName @en: BankCode</p> <p>preferredName @de: Bankleitzahl</p> <p>definition @en: Bank identification number</p> <p>definition @de: Bankidentifikationsnummer, z.B. BLZ, BIC</p> <p>description @en: Bank identification number</p> <p>description @de: Bankidentifikationsnummer, z.B. BLZ, BIC</p>	[String]	1
[Prop] BankName	<p>[IRI] https://example.com/ids/cd/2062-9165-1877-5897</p> <p>preferredName @en: BankName</p> <p>preferredName @de: Name der Bank</p> <p>definition @en: Name of the bank</p> <p>definition @de: Name der Bank</p> <p>description @en: Name of the bank</p> <p>description @de: Name der Bank</p>	[String]	0..1
[Prop] BankCountry	<p>[IRI] https://example.com/ids/cd/9394-9931-2771-9890</p> <p>preferredName @en: BankCountry</p> <p>preferredName @de: Land der Bank</p> <p>definition @en: Country in which the bank account is managed.</p> <p>definition @de: Land, in dem das Bankkonto geführt wird.</p> <p>description @en: Country in which the bank account is managed.</p> <p>description @de: Land, in dem das Bankkonto geführt wird.</p>	[String]	0..1

3.11 Properties of the SMC “IncotermsList”

Table 12: Properties of SMC “IncotermsList”

idShort:	IncotermsList		
Class:	SubmodelElementCollection		
semanticId:	[IRI] https://example.com/ids/cd/1293-2488-2965-6530		
isCaseOf	-		
AllowDuplicates	-		
Parent	IncotermsList		
Explanation	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		
[SME type]	semanticId = [idType]value	[valueType]	card.

idShort	Description@en	example	
[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..*

3.12 Properties of the SMC “Incoterms”

Table 13: Properties of SMC “Incoterms”

idShort:	Incoterms		
Class:	SubmodelElementCollection		
semanticId:	[IRI] https://example.com/ids/cd/4298-0749-7307-3577		
isCaseOf	-		
AllowDuplicates	-		
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]	semanticId = [idType]value	[valueType]	card.
idShort	Description@en	example	
[Prop] Incoterm	[IRI] https://example.com/ids/cd/3185-1406-3586-5873 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] https://example.com/ids/cd/2809-8179-9555-2986 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] https://example.com/ids/cd/4313-9535-3582-5165 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] https://example.com/ids/cd/4849-2307-6803-8682 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

3.13 Properties of the SMC “InternationalRestrictionList”

Table 14: Properties of SMC “InternationalRestrictionList”

idShort:	InternationalRestrictionList		
Class:	SubmodelElementCollection		
semanticId:	[IRI] https://example.com/ids/cd/6435-6143-7395-8504		
isCaseOf	-		
AllowDuplicates	-		
Parent	InternationalRestrictionList		
Explanation	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		
[SME type]	semanticId = [idType]value	[valueType]	card.
idShort	Description@en	example	
[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

3.14 Properties of the SMC “InternationalRestriction”

Table 15: Properties of SMC “InternationalRestriction”

idShort:	InternationalRestriction		
Class:	SubmodelElementCollection		
semanticId:	[IRI] https://example.com/ids/cd/7730-3338-6277-2288		
isCaseOf	-		
AllowDuplicates	-		
Parent	InternationalRestriction		
Explanation	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		
[SME type]	semanticId = [idType]value	[valueType]	card.
idShort	Description@en	example	
[Prop] RestrictionType	[IRI] https://example.com/ids/cd/2013-7229-5960-0256 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	[String]	1

	description @de: Art der internationalen Restriktion, z.B. Embargo		
[Prop] CountryCodeEmbargoImposing	[IRI] https://example.com/ids/cd/6317-3180-6320-4219 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] https://example.com/ids/cd/2441-4107-3887-0267 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] https://example.com/ids/cd/6498-9456-9286-1468 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 description @en: Region which is imposing the restriction description @de: Region, die die Restriktion verhängt, z.B. EU	[String]	0..*
[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..*

3.15 Properties of the SMC “CertificationsList”

Table 16: Properties of SMC “CertificationsList”

idShort:	CertificationsList		
Class:	SubmodelElementCollection		
semanticId:	[IRI] https://example.com/ids/cd/1904-3261-2120-0020		
isCaseOf	-		
AllowDuplicates	-		
Parent	CertificationsList		

Explanation	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		
[SME type]	semanticId = [idType]value	[valueType]	card.
idShort	Description@en	example	
[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..*

3.16 Properties of the SMC “Certification”

Table 17: Properties of SMC “Certification”

idShort:	Certification		
Class:	SubmodelElementCollection		
semanticId:	[IRI] https://example.com/ids/cd/7466-3288-8215-1714		
isCaseOf	-		
AllowDuplicates	-		
Parent	Certification		
Explanation	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		
[SME type]	semanticId = [idType]value	[valueType]	card.
idShort	Description@en	example	
[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	[String]	1

	description @en: Type of certification or approval requirement description @de: Art der Zertifizierung oder Zulassungsvorschrift		
[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

idShort:	SpecialTreatmentClassList		
Class:	SubmodelElementCollection		
semanticId:	[IRI] https://example.com/ids/cd/5998-1917-5001-0928		
isCaseOf	-		
AllowDuplicates	-		
Parent	SpecialTreatmentClassList		
Explanation	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		
[SME type]	semanticId = [idType]value	[valueType]	card.
idShort	Description@en	example	
[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..*

3.17 Properties of the SMC “InvolvedPartiesList”

Table 18: Properties of SMC “InvolvedPartiesList”

idShort:	InvolvedPartiesList		
Class:	SubmodelElementCollection		
semanticId:	[IRI] https://example.com/ids/cd/3208-2275-3712-5361		
isCaseOf	-		
AllowDuplicates	-		
Parent	InvolvedPartiesList		
Explanation	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		
[SME type]	semanticId = [idType]value	[valueType]	card.
idShort	Description @en	example	
[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..*

3.18 Properties of the SMC “Party”

Table 19: Properties of SMC “Party”

idShort:	Party		
Class:	SubmodelElementCollection		
semanticId:	[IRI] https://example.com/ids/cd/6378-7096-6959-2893		
isCaseOf	-		
AllowDuplicates	-		
Parent	Party		
Explanation	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		

[SME type]	semanticId = [idType]value	[valueType]	card.
idShort	Description @en	example	
[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. description @en: Unique identifier of the business partner. description @de: Eindeutiger Identifikator des Geschäftspartners.	[String]	0..1
[Prop] OrganisationIRI	[IRI] https://example.com/ids/cd/4708-6632-0530-0460 preferredName @en: Organisation IRI preferredName @de: Organisations IRI definition @en: IRI of the organisation definition @de: IRI der Organisation description @en: IRI of the organisation description @de: IRI der Organisation	[AnyUri]	0..1
[Prop] InvolvedInDocumentExchange	[IRI] https://example.com/ids/cd/3844-6746-0152-2371 preferredName @en: Involved in document exchange preferredName @de: In den Dokumentaustausch einbezogen definition @en: Is the business partner involved in the exchange of this document? definition @de: Ist der Geschäftspartner in den Austausch dieses Dokuments involviert? description @en: Is the business partner involved in the exchange of this document? description @de: Ist der Geschäftspartner in den Austausch dieses Dokuments involviert?	[Boolean]	1
[SMC] Address	[IRI] https://example.com/ids/cd/5798-8153-9666-1312 preferredName @en: Address preferredName @de: Adresse definition @en: Address information for a business partner definition @de: Adressinformationen zu einem Geschäftspartner	[IRI] 21 elements	1..*

	description @en: Address information for a business partner description @de: Adressinformationen zu einem Geschäftspartner		
[SMC] ContactDetails	[IRI] https://example.com/ids/cd/4718-1728-1436-5846 preferredName @en: Contact details preferredName @de: Kontaktdetails Ansprechpartner definition @en: Information about a contact person definition @de: Informationen über einen Ansprechpartner description @en: Information about a contact person description @de: Informationen über einen Ansprechpartner	[IRI] 1 elements	1..*

3.19 Properties of the SMC “Address”

Table 20: Properties of SMC “Address”

idShort:	Address		
Class:	SubmodelElementCollection		
semanticId:	[IRI] https://example.com/ids/cd/5798-8153-9666-1312		
isCaseOf	-		
AllowDuplicates	-		
Parent	Address		
Explanation	Address information for a business partner@en, Adressinformationen zu einem Geschäftspartner@de		
[SME type]	semanticId = [idType]value	[valueType]	card.
idShort	Description@en	example	
[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	[String]	0..1

	<p>definition @en: Additional line for the organization name definition @de: Zusätzliche Zeile für den Namen der Organisation</p> <p>description @en: Additional line for the organization name description @de: Zusätzliche Zeile für den Namen der Organisation</p>		
[Prop] CompanyName4	<p>[IRI] https://example.com/ids/cd/0964-4665-7761-4017 preferredName @en: Company name 4 preferredName @de: Firmenname 4</p> <p>definition @en: Additional line for the organization name definition @de: Zusätzliche Zeile für den Namen der Organisation</p> <p>description @en: Additional line for the organization name description @de: Zusätzliche Zeile für den Namen der Organisation</p>	[String]	0..1
[Prop] ToPerson	<p>[IRI] https://example.com/ids/cd/6457-5420-4250-3462 preferredName @en: to the attention of preferredName @de: zu Händen von</p> <p>definition @en: Address line for the information -for the attention of- definition @de: Adresszeile für die Angabe -zu Händen von-</p> <p>description @en: Address line for the information -for the attention of- description @de: Adresszeile für die Angabe -zu Händen von-</p>	[String]	0..1
[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	[IRI] https://example.com/ids/cd/0231-2955-3714-4514 preferredName @en: Additional Address line 3 preferredName @de: zusätzliche Adresszeile 3 definition @en: Additional Address line 3 definition @de: zusätzliche Adresszeile 3 description @en: Additional Address line 3 description @de: zusätzliche Adresszeile 3	[String]	0..1
[Prop] AdditionalAddressline4	[IRI] https://example.com/ids/cd/9054-4382-9976-1739 preferredName @en: Additional Address line 4 preferredName @de: zusätzliche Adresszeile 4 definition @en: Additional Address line 4 definition @de: zusätzliche Adresszeile 4 description @en: Additional Address line 4 description @de: zusätzliche Adresszeile 4	[String]	0..1
[Prop] UnloadingPoint	[IRI] https://example.com/ids/cd/0461-9712-7170-9023 preferredName @en: Unloading point preferredName @de: Abladestelle definition @en: Unloading point definition @de: Abladestelle description @en: Unloading point description @de: Abladestelle	[String]	0..1
[Prop] Gate	[IRI] https://example.com/ids/cd/8484-1863-1901-5069 preferredName @en: Gate preferredName @de: Tor definition @en: Gate in the context of an address definition @de: Tor im Zusammenhang mit einer Adresse description @en: Gate in the context of an address description @de: Tor im Zusammenhang mit einer Adresse	[String]	0..1
[Prop] Hall	[IRI] https://example.com/ids/cd/8880-4055-9494-9724 preferredName @en: Hall preferredName @de: Halle definition @en: Hall in the context of an address definition @de: Halle im Zusammenhang mit einer Adresse description @en: Hall in the context of an address description @de: Halle im Zusammenhang mit einer Adresse	[String]	0..1
[Prop] Floor	[IRI] https://example.com/ids/cd/2697-7470-5291-9200 preferredName @en: Floor preferredName @de: Stockwerk definition @en: Floor in the context of an address definition @de: Stockwerk im Zusammenhang mit einer Adresse description @en: Floor in the context of an address description @de: Stockwerk im Zusammenhang mit einer Adresse	[String]	0..1

[Prop] Room	[IRI] https://example.com/ids/cd/6023-1738-8823-3441 preferredName @en: Room number preferredName @de: Raumnummer definition @en: Room number in the context of an address definition @de: Raumnummer im Zusammenhang mit einer Adresse description @en: Room number in the context of an address description @de: Raumnummer im Zusammenhang mit einer Adresse	[String]	0..1
[Prop] Department	[IRI] https://example.com/ids/cd/5101-8092-4643-0998 preferredName @en: Department preferredName @de: Abteilung definition @en: Department in the company definition @de: Abteilung im Unternehmen description @en: Department in the company description @de: Abteilung im Unternehmen	[String]	1
[Prop] Street	[IRI] https://example.com/ids/cd/0712-8960-1501-5018 preferredName @en: Street preferredName @de: Straße definition @en: Street name and house number definition @de: Straßenname und Hausnummer description @en: Street name and house number description @de: Straßenname und Hausnummer	[String]	1
[Prop] ZIP	[IRI] https://example.com/ids/cd/2333-7505-7088-6383 preferredName @en: ZIP preferredName @de: Postleitzahl definition @en: Postal code of the house address definition @de: Postleitzahl der Hausanschrift description @en: Postal code of the house address description @de: Postleitzahl der Hausanschrift	[String]	1
[Prop] POBox	[IRI] https://example.com/ids/cd/6539-1432-3791-6633 preferredName @en: PO box preferredName @de: Postfachnummer definition @en: Post office box number definition @de: Nummer des Postfachs description @en: Post office box number description @de: Nummer des Postfachs	[String]	0..1
[Prop] ZIPBox	[IRI] https://example.com/ids/cd/7786-3815-7881-2054 preferredName @en: ZIP PO box preferredName @de: Postleitzahl Postfach definition @en: Postal code of the post office box definition @de: Postleitzahl des Postfachs description @en: Postal code of the post office box description @de: Postleitzahl des Postfachs	[String]	0..1

[Prop] City	[IRI] https://example.com/ids/cd/3778-9247-4142-3562 preferredName @en: City preferredName @de: Ort definition @en: Location information about the company definition @de: Ortsangabe zum Unternehmen description @en: Location information about the company description @de: Ortsangabe zum Unternehmen	[String]	1
[Prop] State	[IRI] https://example.com/ids/cd/2671-0230-9760-7052 preferredName @en: State preferredName @de: Bundesland definition @en: State definition @de: Bundesland description @en: State description @de: Bundesland	[String]	0..1
[Prop] Country	[IRI] https://example.com/ids/cd/5235-1914-8646-9725 preferredName @en: Country preferredName @de: Land definition @en: Country definition @de: Land description @en: Country description @de: Land	[String]	1
[Prop] CountryCode	[IRI] https://example.com/ids/cd/0971-1811-6008-5332 preferredName @en: Country code preferredName @de: Landescode definition @en: Two-digit country code according to ISO 3166 ALPHA-2 definition @de: Zweistelliger Ländescode gemäß ISO 3166 ALPHA-2 description @en: Two-digit country code according to ISO 3166 ALPHA-2 description @de: Zweistelliger Ländescode gemäß ISO 3166 ALPHA-2	[String]	1
[Prop] VAT_Id	[IRI] https://example.com/ids/cd/9899-6402-7236-5784 preferredName @en: VAT Id preferredName @de: Umsatzsteuer ID definition @en: VAT Id of the business partner definition @de: Umsatzsteuer ID des Geschäftspartners description @en: VAT Id of the business partner description @de: Umsatzsteuer ID des Geschäftspartners	[String]	0..1
[Prop] Tax_Number	[IRI] https://example.com/ids/cd/2577-3889-4647-1561 preferredName @en: Tax number preferredName @de: Steuernummer definition @en: Tax number of the business partner definition @de: Steuernummer des Geschäftspartners	[String]	0..1

	description @en: Tax number of the business partner description @de: Steuernummer des Geschäftspartners		
[Prop] Phone	[IRI] https://example.com/ids/cd/2207-1134-6236-8237 preferredName @en: Phone preferredName @de: Telefonnummer definition @en: Company central phone number definition @de: Zentrale Telefonnummer des Unternehmens description @en: Company central phone number description @de: Zentrale Telefonnummer des Unternehmens	[String]	1
[Prop] Fax	[IRI] https://example.com/ids/cd/6437-1513-2624-8890 preferredName @en: Fax preferredName @de: Faxnummer definition @en: Company central fax number definition @de: Zentrale Faxnummer des Unternehmens description @en: Company central fax number description @de: Zentrale Faxnummer des Unternehmens	[String]	0..1
[Prop] Email	[IRI] https://example.com/ids/cd/6494-4017-9371-2990 preferredName @en: Email preferredName @de: E-Mail Adresse definition @en: Company central email address definition @de: Zentrale E-Mail-Adresse des Unternehmens description @en: Company central email address description @de: Zentrale E-Mail-Adresse des Unternehmens	[String]	1

3.20 Properties of the SMC “ContactDetails”

Table 21: Properties of SMC “ContactDetails”

idShort:	ContactDetails		
Class:	SubmodelElementCollection		
semanticId:	[IRI] https://example.com/ids/cd/4718-1728-1436-5846		
isCaseOf	-		
AllowDuplicates	-		
Parent	ContactDetails		
Explanation	Information about a contact person@en, Informationen über einen Ansprechpartner@de		
[SME type]	semanticId = [idType]value	[valueType]	card.
idShort	Description@en	example	
[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	[-]	1

	definition @de: Referenz auf das Teilmodell ContactInformation		
	description @en: Reference to the submodel ContactInformation description @de: Referenz auf das Teilmodell ContactInformation		

3.21 Properties of the SMC “CostCentersList”

Table 22: Properties of SMC “CostCentersList”

idShort:	CostCentersList		
Class:	SubmodelElementCollection		
semanticId:	[IRI] https://example.com/ids/cd/6671-3011-2433-1935		
isCaseOf	-		
AllowDuplicates	-		
Parent	CostCentersList		
Explanation	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.
idShort	Description@en	example	
[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..*

3.22 Properties of the SMC “CostCenter”

Table 23: Properties of SMC “CostCenter”

idShort:	CostCenter		
Class:	SubmodelElementCollection		
semanticId:	[IRI] https://example.com/ids/cd/0208-7319-7094-3793		
isCaseOf	-		
AllowDuplicates	-		

Parent	CostCenter		
Explanation	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.
idShort	Description@en	example	
[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 description @en: Name of the cost center description @de: Bezeichnung der Kostenstelle	[String]	1
[Prop] CostReasonCode	[IRI] https://example.com/ids/cd/5168-1311-0319-9617 preferredName @en: Cost reason code preferredName @de: Code des Kostengrunds definition @en: Identifying code for the cost reason definition @de: Identifizierender Code des Kostengrunds description @en: Identifying code for the cost reason description @de: Identifizierender Code des Kostengrunds	[String]	0..1
[Prop] CostReasonName	[IRI] https://example.com/ids/cd/3465-6074-9658-1102 preferredName @en: Name of the cost reason preferredName @de: Name des Kostengrundes definition @en: Name of the Cost Reason definition @de: Name des Kostengrundes description @en: Name of the Cost Reason description @de: Name des Kostengrundes	[String]	0..1
[Prop] CostCarrierCode	[IRI] https://example.com/ids/cd/1502-0566-8852-4678 preferredName @en: Cost carrier code preferredName @de: Code des Kostenträgers definition @en: Identifying code for the cost carrier definition @de: Identifizierender Code des Kostenträgers description @en: Identifying code for the cost carrier description @de: Identifizierender Code des Kostenträgers	[String]	0..1

[Prop] CostCarrierName	[IRI] https://example.com/ids/cd/9656-7632-8106-6289 preferredName @en: Name of the cost carrier preferredName @de: Name des Kostenträgers definition @en: Name of the cost carrier definition @de: Name des Kostenträgers description @en: Name of the cost carrier description @de: Name des Kostenträgers	[String]	0..1
[Prop] ProjectNumber	[IRI] https://example.com/ids/cd/6025-9637-0933-6857 preferredName @en: Project number preferredName @de: Projektnummer definition @en: Project number definition @de: Projektnummer description @en: Project number description @de: Projektnummer	[String]	0..1
[Prop] ProjectName	[IRI] https://example.com/ids/cd/2633-0425-6816-8093 preferredName @en: Project name preferredName @de: Projektname definition @en: Project name definition @de: Projektname description @en: Project name description @de: Projektname	[String]	0..1
[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

3.23 Properties of the SMC “AttachedMediaList”

Table 24: Properties of SMC “AttachedMediaList”

idShort:	AttachedMediaList		
Class:	SubmodelElementCollection		
semanticId:	[IRI] https://example.com/ids/cd/2839-4873-8128-5745		

isCaseOf	-		
AllowDuplicates	-		
Parent	AttachedMediaList		
Explanation	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		
[SME type]	semanticId = [idType]value	[valueType]	card.
idShort	Description @en	example	
[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 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.	[-] 4 elements	0..*

3.24 Properties of the SMC “Media”

Table 25: Properties of SMC “Media”

idShort:	Media		
Class:	SubmodelElementCollection		
semanticId:	[IRI] https://example.com/ids/cd/9426-4755-6948-1625		
isCaseOf	-		
AllowDuplicates	-		
Parent	Media		
Explanation	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		
[SME type]	semanticId = [idType]value	[valueType]	card.
idShort	Description @en	example	
[Prop] File	[IRI] https://example.com/ids/cd/3858-8741-3610-0675 preferredName @en: File preferredName @de: Datei	[AnyUri]	0..1

	<p>definition @en: Link to the multimedia file definition @de: Link zu der Multimediadatei</p> <p>description @en: Link to the multimedia file description @de: Link zu der Multimediadatei</p>		
[Prop] MimeType	<p>[IRI] https://example.com/ids/cd/4346-0784-7719-2900</p> <p>preferredName @en: File type preferredName @de: Datei Typ</p> <p>definition @en: MIME type of the multimedia file definition @de: MIME-typ der Multimediadatei</p> <p>description @en: MIME type of the multimedia file description @de: MIME-typ der Multimediadatei</p>	[String]	0..1
[Prop] MimeTypePurpose	<p>[IRI] https://example.com/ids/cd/5307-1241-7657-2764</p> <p>preferredName @en: File purpose preferredName @de: Zweck der Datei</p> <p>definition @en: Purpose of the file, e.g. white paper, standard, hazard document definition @de: Zweck der Datei, z.B. Whitepaper, Norm, Gefahrendokument</p> <p>description @en: Purpose of the file, e.g. white paper, standard, hazard document description @de: Zweck der Datei, z.B. Whitepaper, Norm, Gefahrendokument</p>	[String]	0..1
[Prop] Comment	<p>[IRI] https://example.com/ids/cd/3376-7127-3767-1631</p> <p>preferredName @en: Comment preferredName @de: Kommentar</p> <p>definition @en: Comment or description of the multimedia file definition @de: Kommentar oder Beschreibung der Multimediadatei</p> <p>description @en: Comment or description of the multimedia file description @de: Kommentar oder Beschreibung der Multimediadatei</p>	[String]	0..1

3.25 Properties of the SMC “RequestItemList”

Table 26: Properties of SMC “RequestItemList”

idShort:	RequestItemList		
Class:	SubmodelElementCollection		
semanticId:	[IRI] https://example.com/ids/cd/4242-8791-1195-3820		
isCaseOf	-		
AllowDuplicates	-		
Parent	RequestItemList		
Explanation	Bill of material of purchase request@en,Stückliste zur Bestellanfrage@de		
[SME type]	semanticId = [idType]value	[valueType]	card.
idShort	Description@en	example	

[SMC] RequestItem	[IRI] https://example.com/ids/cd/0488-6701-0525-0238 preferredName @en: Request item preferredName @de: Angefragtes Element definition @en: Information about an item or line of the order request definition @de: Informationen zu einem Element, auch Item oder Line der Bestellanfrage description @en: Information about an item or line of the order request description @de: Informationen zu einem Element, auch Item oder Line der Bestellanfrage	[-] 38 elements	1..*
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3.26 Properties of the SMC “RequestItem”

Table 27: Properties of SMC “RequestItem”

idShort:	RequestItem		
Class:	SubmodelElementCollection		
semanticId:	[IRI] https://example.com/ids/cd/0488-6701-0525-0238		
isCaseOf	-		
AllowDuplicates	-		
Parent	RequestItem		
Explanation	Information about an item or line of the order request@en,Informationen zu einem Element, auch Item oder Line der Bestellanfrage@de		
[SME type]	semanticId = [idType]value	[valueType]	card.
idShort	Description@en	example	
[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 definition @de: Eindeutige ID des Items, z.B. Positionsnummer oder Positionszeile description @en: Unique ID of the item, e.g. position number or position line description @de: Eindeutige ID des Items, z.B. Positionsnummer oder Positionszeile	[String]	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	[-]	0..1

	<p>described in another AAS description @de: Referenz auf die AAS des Items, falls dieses in einer anderen AAS beschrieben ist</p>		
[Prop] ParentItemID	<p>[IRI] https://example.com/ids/cd/7078-8943-3692-3027 preferredName @en: Parent item ID preferredName @de: ID des übergeordneten Elements</p> <p>definition @en: ID of the parent item or line definition @de: ID des übergeordneten Elements</p> <p>description @en: ID of the parent item or line description @de: ID des übergeordneten Elements</p>	[String]	0..1
[Prop] ItemClassification	<p>[IRI] https://example.com/ids/cd/0641-6451-4618-9078 preferredName @en: classification preferredName @de: Klassifikation</p> <p>definition @en: classification of the item: material, wages or service definition @de: Art des Eintrags: Material, Lohn oder Dienstleistung</p> <p>description @en: classification of the item: material, wages or service description @de: Art des Eintrags: Material, Lohn oder Dienstleistung</p>	[String]	0..1
[Prop] ItemType	<p>[IRI] https://example.com/ids/cd/7177-2251-4225-9208 preferredName @en: Item type 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 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 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] https://example.com/ids/cd/7807-7720-3097-0571 preferredName @en: Item status preferredName @de: Elementstatus</p> <p>definition @en: Status of the item (IsClosed, IsOpen, IsDeleted) definition @de: Status des Items (IsClosed, IsOpen, IsDeleted)</p> <p>description @en: Status of the item (IsClosed, IsOpen,</p>	[String]	0..1

	<p>IsDeleted) description @de: Status des Items (IsClosed, IsOpen, IsDeleted)</p>		
<p>[Prop] ItemStockStatus</p>	<p>[IRI] https://example.com/ids/cd/1402-3310-8441-4320 preferredName @en: Stock status preferredName @de: Lagerstatus</p> <p>definition @en: Stock status of the item or item, possible values: InStock, NotInStock, ToBeEngineered, ToBeProduced, Delegated definition @de: Lagerstatus des Elements bzw. Artikels. Mögliche Werte: InStock, NotInStock, ToBeEngineered, ToBeProduced, Delegated</p> <p>description @en: Stock status of the item or item, possible values: InStock, NotInStock, ToBeEngineered, ToBeProduced, Delegated description @de: Lagerstatus des Elements bzw. Artikels. Mögliche Werte: InStock, NotInStock, ToBeEngineered, ToBeProduced, Delegated</p>	[String]	0..1
<p>[Prop] ServiceType</p>	<p>[IRI] https://example.com/ids/cd/1422-5969-6378-1313 preferredName @en: ServiceType 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</p>	[String]	0..1

	<p>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 ist. openquantity: Eine Dienstleistung, für die</p>		
[Prop] OrderQuantity	<p>[IRI] https://example.com/ids/cd/0153-3716-2451-1483 preferredName @en: Order Quantity preferredName @de: Bestellmenge</p> <p>definition @en: Quantity delivered definition @de: Liefermenge</p> <p>description @en: Quantity delivered description @de: Liefermenge</p>	[Float]	1
[Prop] OrderQuantityUnit	<p>[IRI] https://example.com/ids/cd/1280-8461-5943-9975 preferredName @en: Order quantity unit preferredName @de: Einheit Bestellmenge</p> <p>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.</p> <p>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.</p>	[String]	1
[Prop] ContentQuantity	<p>[IRI] https://example.com/ids/cd/3923-5355-0205-9325 preferredName @en: Content quantity preferredName @de: Inhaltsmenge</p> <p>definition @en: Content quantity definition @de: Inhaltsmenge</p> <p>description @en: Content quantity description @de: Inhaltsmenge</p>	[Float]	0..1
[Prop] ContentQuantityUnit	<p>[IRI] https://example.com/ids/cd/7830-5126-7896-5853 preferredName @en: Content quantity unit preferredName @de: Einheit Inhaltsmengenangabe</p> <p>definition @en: Unit of the content quantity definition @de: Einheit der Inhaltsgrößenangabe</p>	[String]	0..1

	<p>description @en: Unit of the content quantity description @de: Einheit der Inhaltsgrößenangabe</p>		
[Prop] NumberOfContentUnitsPerOrderUnit	<p>[IRI] https://example.com/ids/cd/4738-1052-8365-0777 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] https://example.com/ids/cd/9508-7167-8861-1611 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] https://example.com/ids/cd/6746-4506-7624-8173 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] https://example.com/ids/cd/5161-4807-9731-2754 preferredName @en: Item AAS requested preferredName @de: Artikel AAS angefordert</p> <p>definition @en: Boolean variable that indicates whether a digital twin in the form of an AAS is requested for the item. definition @de: Boolesche Variable, die angibt, ob zum Artikel ein digitaler Zwilling in Form einer AAS angefordert wird.</p> <p>description @en: Boolean variable that indicates whether</p>	[Boolean]	0..1

	<p>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] https://example.com/ids/cd/0659-5597-8463-8655</p> <p>preferredName @en: Digital product passport requested preferredName @de: Digitaler Produktpass erforderlich</p> <p>definition @en: Boolean value indicating whether a digital product passport is required 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 description @de: Boolsche Wert der Angibt ob ein digitaler Produktpass erforderlich ist</p>	[Boolean]	0..1
[Prop] ChainOfCustodyProofRequested	<p>[IRI] https://example.com/ids/cd/7196-9217-0521-4845</p> <p>preferredName @en: Chain of custody proof required preferredName @de: Lieferkettennachweis erforderlich</p> <p>definition @en: Boolean value indicating whether proof of custody chain is required 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 description @de: Boolscher Wert der angibt, ob ein Lieferkettennachweis erforderlich ist</p>	[Boolean]	0..1
[Prop] TollDocumentsRequired	<p>[IRI] https://example.com/ids/cd/1315-5485-4508-5182</p> <p>preferredName @en: Toll documents required preferredName @de: Zolldokumente erforderlich</p> <p>definition @en: Boolean value, indicating whether toll documents are required definition @de: Boolscher Wert der angibt, ob Zolldokumente erforderlich ist</p> <p>description @en: Boolean value, indicating whether toll documents are required description @de: Boolscher Wert der angibt, ob Zolldokumente erforderlich ist</p>	[Boolean]	0..1
[Ref] ReferenceSubmodelTollDocuments	<p>[IRI] https://example.com/ids/cd/9901-9710-8091-5659</p> <p>preferredName @en: Reference to submodell toll document 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</p>	[-]	0..N

	a toll document description @de: Referenz auf ein Teilmodell, das ein Zolldokument beschreibt		
[Prop] NetPrice	[IRI] https://example.com/ids/cd/3864-8722-0291-8023 preferredName @en: Net price preferredName @de: Nettopreis Element definition @en: Der Gesamtnettopreis für den Eintrag definition @de: The total net amount for the line item description @en: Der Gesamtnettopreis für den Eintrag description @de: The total net amount for the line item	[Float]	0..1
[Prop] GrossPrice	[IRI] https://example.com/ids/cd/8210-0156-9703-9868 preferredName @en: Gross price preferredName @de: Bruttopreis Element definition @en: Der Gesamtbruttobetrag für den Eintrag definition @de: The total gross amount for the line item description @en: Der Gesamtbruttobetrag für den Eintrag description @de: The total gross amount for the line item	[Float]	0..1
[SMC] ProductPrice	[IRI] https://example.com/ids/cd/3275-4793-0126-5699 preferredName @en: Product price preferredName @de: Produktpreis definition @en: Information on product or article price definition @de: Angaben zum Produktpreis bzw. Artikelpreis description @en: Information on product or article price description @de: Angaben zum Produktpreis bzw. Artikelpreis	[-] 12 elements	1
[SMC] CarbonFootprint	[IRI] https://example.com/ids/cd/7946-6796-7075-0011 preferredName @en: Information on carbon footprint preferredName @de: Informationen zum CO2-Fussabdruck definition @en: Information on carbon footprint definition @de: Informationen zum CO2-Fussabdruck description @en: Information on carbon footprint description @de: Informationen zum CO2-Fussabdruck	[-] 6 elements	0..1
[Prop] PartialShipmentAllowed	[IRI] https://example.com/ids/cd/0880-1787-5127-4400 preferredName @en: Partial shipment allowed preferredName @de: Teilstellung erlaubt 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. description @en: Flag to indicate whether partial shipment is allowed. If allowed the value is TRUE,	[Boolean]	0..1

	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.		
[Prop] TermsOfDelivery	[IRI] https://example.com/ids/cd/9342-4705-7165-2098 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] https://example.com/ids/cd/9905-1897-2217-0546 preferredName @en: Agreement preferredName @de: Vereinbarung definition @en: Additional Agreement definition @de: Zusätzliche Vereinbarung description @en: Additional Agreement description @de: Zusätzliche Vereinbarung	[AnyUri]	0..*
[Prop] Remarks	[IRI] https://example.com/ids/cd/6398-0224-8364-6622 preferredName @en: Remarks preferredName @de: Anmerkungen definition @en: Remark related to a business document definition @de: Bemerkung zu einem Geschäftsdokument description @en: Remark related to a business document description @de: Bemerkung zu einem Geschäftsdokument	[String]	1..*
[Ref] CatalogueRef	[IRI] https://example.com/ids/cd/3622-8956-5425-8824 preferredName @en: Catalogue reference preferredName @de: Referenz auf Katalog 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. 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.	[IRI]	0..1
[Ref] IncotermsRef	[IRI] https://example.com/ids/cd/9733-9492-6042-4410 preferredName @en: Incoterms reference preferredName @de: Referenz auf Incoterms	[-]	0..1

	<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 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] BusinessPartyRef	<p>[IRI] https://example.com/ids/cd/9041-5445-4967-4221</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 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..*
[Ref] InternationalRestrictionsRef	<p>[IRI] https://example.com/ids/cd/5413-5482-9350-2005</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] https://example.com/ids/cd/2547-4480-0898-2903</p> <p>preferredName @en: Special treatment class reference</p>	[-]	0..*

	<p>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.</p> <p>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.</p> <p>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] https://example.com/ids/cd/7212-4393-2460-1082</p> <p>preferredName @en: Media reference</p> <p>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.</p> <p>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.</p> <p>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] https://example.com/ids/cd/8086-8735-8251-8529</p> <p>preferredName @en: Cost center reference</p> <p>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.</p> <p>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.</p> <p>description @de: Referenz auf eine Kostenstelle, der in der SMC CostCentersList definiert sind. Kann im allgemeinen Teil oder im Item referenziert werden.</p>	[IRI]	0..*
[SMC] DeliveryDateList	<p>[IRI] https://example.com/ids/cd/9886-2051-5641-9078</p> <p>preferredName @en: Delivery date list</p> <p>preferredName @de: Liste der Lieferzeiträume</p> <p>definition @en: List of delivery periods to be referenced in</p>	[-] 1 elements	1

	<p>the business document. The referencing can be done in the general part or for each item separately.</p> <p>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.</p> <p>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] https://example.com/ids/cd/1781-5106-0330-5831</p> <p>preferredName @en: Scan code list</p> <p>preferredName @de: Scancodeliste</p> <p>definition @en: List of scan codes, e.g. barcodes</p> <p>definition @de: Liste von Scan Codes, z.B. Barcodes</p> <p>description @en: List of scan codes, e.g. barcodes</p> <p>description @de: Liste von Scan Codes, z.B. Barcodes</p>	[-] 1 elements	0..1
[SMC] ProductID	<p>[IRI] https://example.com/ids/cd/7622-9908-5900-2769</p> <p>preferredName @en: ProductID</p> <p>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</p> <p>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</p> <p>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] https://example.com/ids/cd/8386-0541-1586-1175</p> <p>preferredName @en: Excluded ingredients list</p> <p>preferredName @de: Liste ausgeschlossener Inhaltsstoffe</p> <p>definition @en: Excluded ingredients list</p> <p>definition @de: Liste ausgeschlossener Inhaltsstoffe</p> <p>description @en: Excluded ingredients list</p> <p>description @de: Liste ausgeschlossener Inhaltsstoffe</p>	[-] 1 elements	0..1
[Prop] ProductName	<p>[IRI] https://example.com/ids/cd/4812-2131-7159-7423</p> <p>preferredName @en: Product name</p> <p>preferredName @de: Produktname</p>	[String]	1

	<p>definition @en: Name of the product definition @de: Bezeichnung des Produkts</p> <p>description @en: Name of the product description @de: Bezeichnung des Produkts</p>		
[Prop] ProductShortDescription	<p>[IRI] https://example.com/ids/cd/2979-3291-1034-5353 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
[Prop] ProductDescription	<p>[IRI] https://example.com/ids/cd/0373-9667-4526-5467 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
[Ref] AASRequestedItemReference	<p>[IRI] https://example.com/ids/cd/7265-1824-8757-7588 preferredName @en: Requested Item AAS preferredName @de: AAS angeforderter Artikel</p> <p>definition @en: Reference to the AAS of the requested item, can be the AAS of an existing item or an AAS of an</p>	[-]	0..*

	<p>item that does not yet exist, in which, for example, the requested capabilities or technical properties are stored</p> <p>definition @de: Referenz auf die AAS des angeforderten Artikels, kann die AAS eines existierenden Artikels sein oder eine AAS eines noch nicht existierenden Artikels, in der z.B. die angeforderten Fähigkeiten oder technischen Eigenschaften hinterlegt sind</p> <p>description @en: Reference to the AAS of the requested item, can be the AAS of an existing item or an AAS of an item that does not yet exist, in which, for example, the requested capabilities or technical properties are stored</p> <p>description @de: Referenz auf die AAS des angeforderten Artikels, kann die AAS eines existierenden Artikels sein oder eine AAS eines noch nicht existierenden Artikels, in der z.B. die angeforderten Fähigkeiten oder technischen Eigenschaften hinterlegt sind</p>		
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3.27 Properties of the SMC “ProductPrice”

Table 28: Properties of SMC “ProductPrice”

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

	<p>description @en: Minimum allowable price description @de: Minimal zulässiger Preis</p>		
[Prop] MaxPrice	<p>[IRI] https://example.com/ids/cd/3744-0851-2732-0008 preferredName @en: maximal price preferredName @de: Maximaler Preis</p> <p>definition @en: Maximal allowable price definition @de: Maximal zulässiger Preis</p> <p>description @en: Maximal allowable price description @de: Maximal zulässiger Preis</p>	[Float]	0..1
[Prop] PriceQuantity	<p>[IRI] https://example.com/ids/cd/0789-3388-5877-3403 preferredName @en: price quantity preferredName @de: Preisbezugsmenge</p> <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. 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. 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>	[Float]	0..1
[Prop] PriceUnitValue	<p>[IRI] https://example.com/ids/cd/6981-6083-8824-1638 preferredName @en: Amount of price units preferredName @de: Anzahl Preiseinheiten</p> <p>definition @en: Number of supplied price units definition @de: Anzahl der gelieferten Preiseinheiten</p> <p>description @en: Number of supplied price units description @de: Anzahl der gelieferten Preiseinheiten</p>	[Float]	1
[Prop] PriceUnit	<p>[IRI] https://example.com/ids/cd/0724-2592-6437-0181 preferredName @en: Price unit preferredName @de: Preiseinheit</p> <p>definition @en: Unit of measurement on which the price is calculated definition @de: Mengeneinheit, auf die sich der Preis bezieht</p> <p>description @en: Unit of measurement on which the price is calculated description @de: Mengeneinheit, auf die sich der Preis bezieht</p>	[Integer]	1
[Prop] PriceUnitFactor	<p>[IRI] https://example.com/ids/cd/6257-1709-2210-1717 preferredName @en: Pricefactor preferredName @de: Preisfaktor</p>	[Integer]	0..1

	<p>definition @en: The price factor is the conversion factor for price unit and order unit. 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. description @de: Umrechnungsfaktor zwischen Preiseinheit und Bestelleinheit. 1 Preiseinheit entspricht PriceUnitFactor * Bestelleinheit</p>		
[Prop] CostsIncluded	<p>[IRI] https://example.com/ids/cd/9938-2814-8339-9047 preferredName @en: Costs included preferredName @de: Berücksichtigte Kosten</p> <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>	[String]	0..*
[Prop] AllowancesAndCharges	<p>[IRI] https://example.com/ids/cd/5788-5570-1930-4173 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] https://example.com/ids/cd/9692-8634-0313-9210 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] https://example.com/ids/cd/5744-6862-5676-3301 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] https://example.com/ids/cd/2379-8385-4839-7052 preferredName @en: Tax details preferredName @de: Steuerdetails</p> <p>definition @en: Tax information</p>	[IRI] 8 elements	0..*

	definition @de: Informationen zu den Steuern description @en: Tax information description @de: Informationen zu den Steuern		
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3.28 Properties of the SMC “TaxDetails”

Table 29: Properties of SMC “TaxDetails”

idShort:	TaxDetails		
Class:	SubmodelElementCollection		
semanticId:	[IRI] https://example.com/ids/cd/2379-8385-4839-7052		
isCaseOf	-		
AllowDuplicates	-		
Parent	TaxDetails		
Explanation	Tax information@en,Informationen zu den Steuern@de		
[SME type]	semanticId = [idType]value	[valueType]	card.
idShort	Description@en	example	
[Prop] CalculationSequence	[IRI] https://example.com/ids/cd/6369-2005-0784-8950 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	[Integer]	0..1

	haben, müssen vor der Berechnung beide Steuerfaktoren addiert werden.		
[Prop] TaxCategory	<p>[IRI] https://example.com/ids/cd/7849-1350-5314-5069 preferredName @en: Tax category preferredName @de: Steuerkategorie</p> <p>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.</p> <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. 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>	[String]	0..1
[Prop] TaxType	<p>[IRI] https://example.com/ids/cd/2086-3996-3358-4545 preferredName @en: Tax type preferredName @de: Steuerart</p> <p>definition @en: Tax type, by using internationally accepted terms, such as VAT for value added tax. 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. description @de: Steuertyp, unter Verwendung international anerkannter Abkürzungen, z.B. VAT für Mehrwertsteuer.</p>	[String]	0..1
[Prop] TaxRate	<p>[IRI] https://example.com/ids/cd/9657-3717-0085-0552 preferredName @en: Tax rate preferredName @de: Steuersatz</p> <p>definition @en: Factor for tax applicable to this price definition @de: Faktor für die auf den Preis anwendbare Steuer</p> <p>description @en: Factor for tax applicable to this price description @de: Faktor für die auf den Preis anwendbare Steuer</p>	[Float]	0..1
[Prop] TaxAmount	<p>[IRI] https://example.com/ids/cd/9821-6978-7214-9515 preferredName @en: Tax amount preferredName @de: Steuerbetrag</p> <p>definition @en: Total amount of the tax to be paid. definition @de: Gesamtbetrag der zu zahlenden Steuer.</p>	[Float]	0..1

	<p>description @en: Total amount of the tax to be paid. description @de: Gesamtbetrag der zu zahlenden Steuer.</p>		
[Prop] TaxBase	<p>[IRI] https://example.com/ids/cd/7385-2562-0130-2157 preferredName @en: Different tax base preferredName @de: Abweichende Steuerbasis</p> <p>definition @en: If used this element specifies the base for the calculation of the tax 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 description @de: Wird dieses Element angegeben, wird die Steuer auf Basis dieses Betrag berechnet</p>	[Float]	0..1
[Prop] ExemptionReason	<p>[IRI] https://example.com/ids/cd/8100-0054-1040-5561 preferredName @en: Exemption reason preferredName @de: Ausnahmegrund</p> <p>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.</p> <p>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.</p>	[String]	0..1
[Prop] Jurisdiction	<p>[IRI] https://example.com/ids/cd/9772-0297-0679-9801 preferredName @en: Tax jurisdiction preferredName @de: Steuerhoheitsgebiet</p> <p>definition @en: Jurisdiction for the tax definition @de: Gerichtsstand für die Steuer</p> <p>description @en: Jurisdiction for the tax description @de: Gerichtsstand für die Steuer</p>	[String]	0..1

3.29 Properties of the SMC “CarbonFootprint”

Table 30: Properties of SMC “CarbonFootprint”

idShort:	CarbonFootprint		
Class:	SubmodelElementCollection		
semanticId:	[IRI] https://example.com/ids/cd/7946-6796-7075-0011		
isCaseOf	-		
AllowDuplicates	-		
Parent	CarbonFootprint		

Explanation	Information on carbon footprint@en,Informationen zum CO2-Fussabdruck@de		
[SME type]	semanticId = [idType]value	[valueType]	card.
idShort	Description@en	example	
[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 definition @de: CO2-Menge für das eingesetzte Material description @en: Amount of CO2 for the material used description @de: CO2-Menge für das eingesetzte Material	[Float]	0..1
[Prop] CO2RawMaterialUnit	[IRI] https://example.com/ids/cd/1534-2323-8899-5513 preferredName @en: Unit CO2 quantity material preferredName @de: CO2-Mengeneinheit Material definition @en: Unit of the CO2 quantity for the material definition @de: Einheit der CO2-Mengenangabe für das Material description @en: Unit of the CO2 quantity for the material description @de: Einheit der CO2-Mengenangabe für das Material	[String]	0..1
[Prop] CO2DeliveryAmount	[IRI] https://example.com/ids/cd/4345-6439-0432-8625 preferredName @en: CO2 quantity delivery preferredName @de: CO2-Menge Lieferung definition @en: CO2 quantity for delivery definition @de: CO2-Menge für die Lieferung description @en: CO2 quantity for delivery description @de: CO2-Menge für die Lieferung	[Float]	0..1
[Prop] CO2DeliveryUnit	[IRI] https://example.com/ids/cd/9649-3985-1604-8273 preferredName @en: Unit CO2 quantity delivery preferredName @de: CO2-Mengeneinheit Lieferung definition @en: Unit of CO2 quantity for delivery definition @de: Einheit der CO2-Mengenangabe für die Lieferung description @en: Unit of CO2 quantity for delivery description @de: Einheit der CO2-Mengenangabe für die Lieferung	[String]	0..1
[Prop] CO2ProductAmount	[IRI] https://example.com/ids/cd/2388-6871-7996-2126 preferredName @en: CO2 quantity item preferredName @de: CO2-Menge Artikel definition @en: CO2 quantity for the item definition @de: CO2-Menge für den Artikel description @en: CO2 quantity for the item description @de: CO2-Menge für den Artikel	[Float]	0..1
[Prop] CO2ProductUnit	[IRI] https://example.com/ids/cd/0922-2704-3072-8236 preferredName @en: Unit CO2 quantity item preferredName @de: CO2-Mengeneinheit Artikel definition @en: Unit of the CO2 quantity for the item	[String]	0..1

	definition @de: Einheit der CO2-Mengenangabe für den Artikel		
	description @en: Unit of the CO2 quantity for the item		
	description @de: Einheit der CO2-Mengenangabe für den Artikel		

3.30 Properties of the SMC “DeliveryDateList”

Table 31: Properties of SMC “DeliveryDateList”

idShort:	DeliveryDateList		
Class:	SubmodelElementCollection		
semanticId:	[IRI] https://example.com/ids/cd/9886-2051-5641-9078		
isCaseOf	-		
AllowDuplicatess	-		
Parent	DeliveryDateList		
Explanation	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		
[SME type]	semanticId = [idType]value	[valueType]	card.
idShort	Description@en	example	
[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.	[-] 5 elements	1..*

3.31 Properties of the SMC “DeliveryDate”

Table 32: Properties of SMC “DeliveryDate”

idShort:	DeliveryDate		
Class:	SubmodelElementCollection		
semanticId:	[IRI] https://example.com/ids/cd/3922-4768-8572-1049		
isCaseOf	-		
AllowDuplicatess	-		

Parent	DeliveryDate		
Explanation	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] https://example.com/ids/cd/6283-8026-7314-1051 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 Delivery StartDate = 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 Delivery StartDate = Delivery EndDate gesetzt.	[DateTime]	1
[Prop] DeliveryEndDate	[IRI] https://example.com/ids/cd/4503-3474-9702-0875 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 Delivery StartDate = 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 Delivery StartDate = Delivery EndDate gesetzt.	[DateTime]	1
[Prop] FixedDeliveryDate	[IRI] https://example.com/ids/cd/5443-9392-1270-5551 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] 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

3.32 Properties of the SMC “ScanCodesList”

Table 33: Properties of SMC “ScanCodesList”

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

3.33 Properties of the SMC “ScanCodes”

Table 34: Properties of SMC “ScanCodes”

idShort:	ScanCodes		
Class:	SubmodelElementCollection		
semanticId:	[IRI] https://example.com/ids/cd/6783-9017-6033-9551		
isCaseOf	-		
AllowDuplicates	-		
Parent	ScanCodes		
Explanation	Scan code information@en,Informationen zum Scancode@de		
[SME type]	semanticId = [idType]value	[valueType]	card.
idShort	Description@en	example	
[Prop] CodeType	[IRI] https://example.com/ids/cd/8962-0369-5294-2281 preferredName @en: Scan code type preferredName @de: Scancodeotyp 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

3.34 Properties of the SMC “ProductID”

Table 35: Properties of SMC “ProductID”

idShort:	ProductID		
Class:	SubmodelElementCollection		
semanticId:	[IRI] https://example.com/ids/cd/7622-9908-5900-2769		
isCaseOf	-		
AllowDuplicates	-		
Parent	ProductID		
Explanation	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		
[SME type]	semanticId = [idType]value	[valueType]	card.
idShort	Description@en	example	
[Prop] GTIN	[IRI] https://example.com/ids/cd/2705-0825-7640-5595 preferredName @en: GTIN / EAN preferredName @de: GTIN / EAN definition @en: Global Trade Item Number, see http://www.uc-council.org/2005sunrise/global_trade_item_number.html 200 definition @de: Global Trade Item Number, siehe http://www.uc-council.org/2005sunrise/global_trade_item_number.html 200 description @en: Global Trade Item Number, see http://www.uc-council.org/2005sunrise/global_trade_item_number.html 200 description @de: Global Trade Item Number, siehe http://www.uc-council.org/2005sunrise/global_trade_item_number.html 200	[String]	0..1
[Prop] upc	[IRI] https://example.com/ids/cd/8170-0593-5194-0151 preferredName @en: upc preferredName @de: UPC definition @en: Universal Product Code; see http://www.uc-council.org definition @de: Universeller Produkt Code; siehe http://www.uc-council.org description @en: Universal Product Code; see http://www.uc-council.org description @de: Universeller Produkt Code; siehe http://www.uc-council.org	[String]	0..1
[Prop] SupplierSpecific	[IRI] https://example.com/ids/cd/2652-9978-5594-8510 preferredName @en: Supplier specific product ID preferredName @de: Lieferantenspezifische Produkt ID 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. 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.	[String]	0..1

<p>[Prop] BuyerSpecific</p>	<p>[IRI] https://example.com/ids/cd/8735-1935-1747-5635 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>description @en: Item number of the purchasing company description @de: Artikelnummer des einkaufenden Unternehmens, kann auch Materialnummer aus SAP sein</p>	<p>[String]</p>	<p>0..1</p>
<p>[Prop] AgentSepcific</p>	<p>[IRI] https://example.com/ids/cd/4653-2569-0899-7607 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>	<p>[String]</p>	<p>0..1</p>
<p>[Prop] DelivererSpecific</p>	<p>[IRI] https://example.com/ids/cd/6185-7755-5184-0697 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>	<p>[String]</p>	<p>0..1</p>
<p>[Prop] ProductID</p>	<p>[IRI] https://example.com/ids/cd/7622-9908-5900-2769 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>	<p>[String]</p>	<p>0..1</p>
<p>[Prop] ManacturerID</p>	<p>[IRI] https://example.com/ids/cd/8478-8620-2273-9137 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>	<p>[String]</p>	<p>0..1</p>
<p>[Prop] Materialnumber</p>	<p>[IRI] https://example.com/ids/cd/8234-0889-4219-6817 preferredName @en: Material identifier preferredName @de: Materialnummer</p> <p>definition @en: UniqueID which includes an identity name and</p>	<p>[String]</p>	<p>0..1</p>

	<p>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>		
[SMC] ListProductIDsBusinessPartners	<p>[IRI] https://example.com/ids/cd/2550-7980-4172-5990</p> <p>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: 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</p>	[IRI] 1 elements	0..1

3.35 Properties of the SMC “ListProductIDsBusinessPartners”

Table 36: Properties of SMC “ListProductIDsBusinessPartners”

idShort:	ListProductIDsBusinessPartners		
Class:	SubmodelElementCollection		
semanticId:	[IRI] https://example.com/ids/cd/2550-7980-4172-5990		
isCaseOf	-		
AllowDuplicates	-		
Parent	ListProductIDsBusinessPartners		
Explanation	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		
[SME type]	semanticId = [idType]value	[valueType]	card.
idShort	Description@en	example	
[SMC] ProductIDParty	<p>[IRI] https://example.com/ids/cd/4450-7755-9149-0234</p> <p>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: 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</p>	[-] 3 elements	0..*

3.36 Properties of the SMC “ProductIDParty”

Table 37: Properties of SMC “ProductIDParty”

idShort:	ProductIDParty		
Class:	SubmodelElementCollection		
semanticId:	[IRI] https://example.com/ids/cd/4450-7755-9149-0234		
isCaseOf	-		
AllowDuplicates	-		
Parent	ProductIDParty		
Explanation	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		
[SME type]	semanticId = [idType]value	[valueType]	card.
idShort	Description@en	example	
[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

3.37 Properties of the SMC “ExcludedIngredientsList”

Table 38: Properties of SMC “ExcludedIngredientsList”

idShort:	ExcludedIngredientsList		
Class:	SubmodelElementCollection		
semanticId:	[IRI] https://example.com/ids/cd/8386-0541-1586-1175		
isCaseOf	-		
AllowDuplicates	-		
Parent	ExcludedIngredientsList		
Explanation	Excluded ingredients list@en,Liste ausgeschlossener Inhaltsstoffe@de		
[SME type]	semanticId = [idType]value	[valueType]	card.
idShort	Description@en	example	
[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 “PurchaseRequestNotification”

Due to the fact that Submodel PurchaseRequestNotification can be re-used in various contexts, the specified SMCs in section 3 can be used within other Submodels. In this way the parent Submodel can utilize standardized means of purchasing topics.

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.

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