IDTA 02006

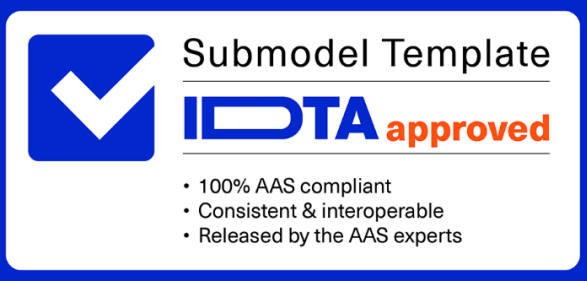
Digital Nameplate for Industrial Equipment

Version 3.0.1

October 2025

SPECIFICATION

Submodel Template of the Asset Administration Shell



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Version history

Date	Version	Comment
2020-11-24	1.0	This version is the first version officially published by ZVEI and Plattform Industrie 4.0.
2022-10-20	2.0	Release of the official Submodel template published by IDTA. This version is based on V1.0.
2024-10-04	3.0	Adaptation to Asset Administration Shell Metamodel Version 3. Contains changes not only corresponding to the Metamodel. See Annex B for a list of changes.
2024-11-08	3.0	Release of the official Submodel template published by IDTA.
2025-14-10	3.0.1	Release of the bug fix version of the Submodel template published by IDTA.

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Chapter 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], [2], [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] to [6]. Common terms and abbreviations can be found in [7].

The target audience 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.

This SMT will only be fully supported as of metamodel V3.0.

1.2. Scope of the Submodel

This Submodel template aims to provide asset nameplate information to the respective Asset Administration Shells in an interoperable manner. 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 and their nameplate can be exchanged in a meaningful way between partners in a value creation network. It targets equipment for process industry and factory automation by defining standardized meta data.

The intended use case is the provision of a standardized property structure within a digital nameplate, which enables the interoperability of digital nameplates from different manufacturers.

This concept can serve as a basis for standardizing the respective Submodel. The conception is based on existing norms, 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 partial aspects within Submodels. The standardized SMCs include address and asset product marking.

In addition to the general information for Industrial Equipment listed in this document, it may be necessary to supplement the digital nameplate with additional information for specific areas of application, e.g. for explosion safety or radio. Information for the digital nameplate for additional areas of application are defined in supplementary submodel templates (e.g. [12])

1.3. Relevant standards for the Submodel template

The current version of the submodel template fulfills the international minimum requirements for information on nameplates, and therefore takes into account, for example, the minimum requirements specified in EU regulations and directives (e.g. (EU) 2023/1230) in accordance with the Blue Guide [13] published in the Official Journal of the European Commission.

According to [3], interoperable properties might be defined by standards, consortium specifcations or manufacturer specifications.

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

Such property dictionaries include:

- ECLASS, see: https://eclass.eu
- IEC CDD, see: https://cdd.iec.ch/cdd/common/iec61360-7.nsf

In this document, properties are aimed to be described by IEC CDD (Semantic IDs). Corresponding references to ECLASS are provided as Supplemental Semantic IDs.

Further relevant basic requirements for nameplates are described in [8] and [9].

Requirements specified by further regulations and directives will be taken into account in subsequent versions.

1.4. Explanations on used UML diagrams

For clarity and an improved legibility readers suggested to go through this section at first before reading the following chapters.

UML diagrams feature box-like elements, called "classes". These classes, typically Submodels, SubmodelElementCollections or SubmodelElementLists, typically feature a set of Properties or further SubmodelElements. These elements can have specific cardinalities.

The single classes are hierarchally organized by aggregation relations, these can be seen as "contains" relation.

For a further overview on UML diagrams please refer to [6] and [10].

Further details about used table formats please refer to Annex A.

Chapter 2. Information set for Submodel “Nameplate”

2.1. General

The Submodel template was motivated by the prior ZVEI project “Digital Nameplate”. While defining Submodels the following three aspects must be considered as suggested in [5]:

Use and economic relevance

A nameplate contains identifying, descriptive and indicating information about an asset. Given the variety of requirements from national and global institutions, conventional nameplate have reached their limits of presenting mandatory content. The Submodel “Nameplate” helps to standardize the information structure for modelling a nameplate in compliance with such regulations. As a result, a breakthrough of restrictions due to limited labeling field can be achieved. At the same time the availability of asset information is widened from local to global level enabling further partners along the value chain to have access to nameplate information. The machine readability can be realized without ambiguity with the help of semantic information.

Possible functions and interactions

The Submodel “Nameplate” provides information from a nameplate. Customers or potential customers can use this Submodel to acquire identifying, classifying information about an asset, such as the manufacturer name, model type or serial number and the provided product markings. Customers can also use this Submodel to verify the asset with their order. Beside the customers public authorities and inter-trade organizations may also share interest in this Submodel in order to examine the information integrity stipulated for a nameplate. Manufacturers use this Submodel to fulfill the legal commitment on the one hand, on the other hand this Submodel helps them to identify the right asset in case maintenance services or spare parts are needed.

By using the SMC “Marking”, mandatory nameplate content can be modelled sufficiently. The modelling method was concepted in such manner that a wide range of national and international regulations and standards were taken into account.

In order to take regulations for nameplate from further standards or directives into account additional properties can be modelled with SMC “AssetSpecificProperties” and its child element SMC “GuidelineSpecificProperties” while reference to the additional standard document should be stored in the property “GuidelineForConformityDeclaration”. A separate SMC “GuidelineSpecificProperties” needs to be created for each additional standard and all SMC “GuidelineSpecificProperties” should be placed under the parent node “AssetSpecificProperties”.

Property specification

See clause 3 "Information structures and attributes".

2.2. Overview UML model

The SubmodelElements described in section 3 are structured in the following way (see Figure 1):

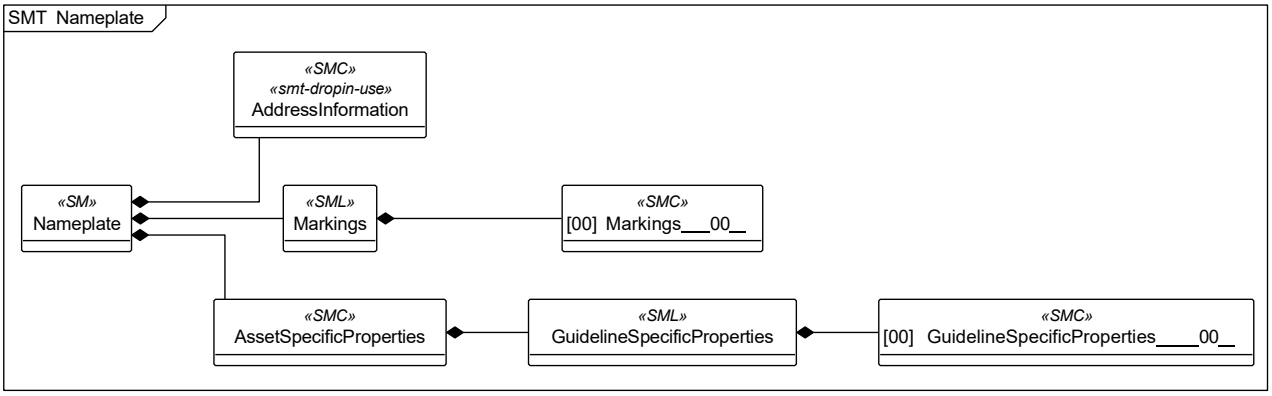


Figure 1. UML overview

For the overall Submodel template and its instances, some notes can be given:

- The submodel instance Nameplate comprises a set of elementary data elements of a nameplate.
- Address information of the asset's manufacturer or of an authorised service provider is provided by a harmonized **SMT drop-in** Address Information.
- Multiple Markings information are provided analogue to marking on the physical nameplate.
- As physical nameplates hold also asset specific information, these can be freely added to AssetSpecificProperties.
- One special case is GuidelineSpecificProperties, which might by required by different standard documents.

Chapter 3. Information structures and attributes

3.1. Properties of the Submodel “Nameplate”

Figure 2 shows the UML-diagram defining the relevant properties which need to be set.

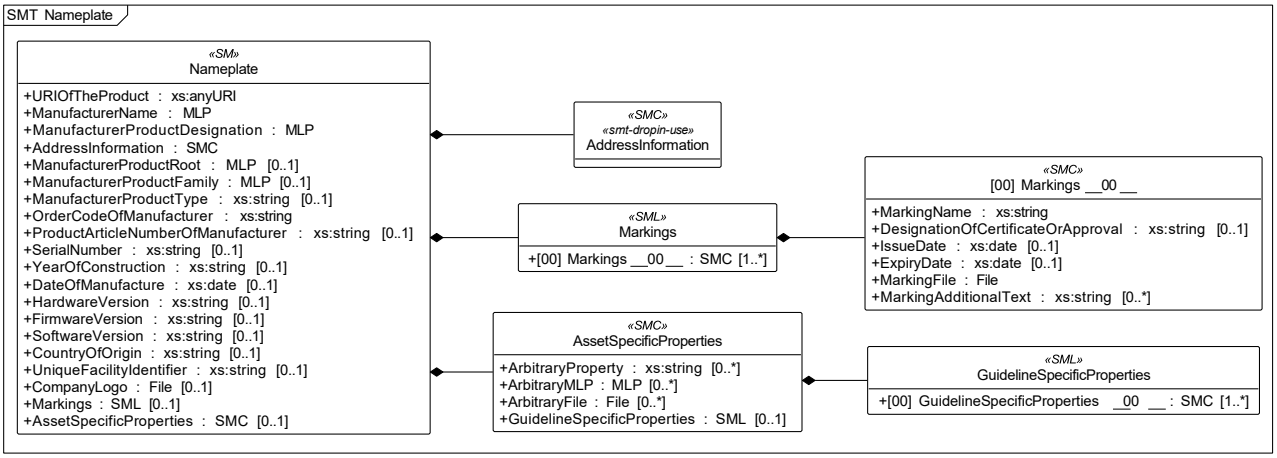


Figure 2. UML-Diagram for Submodel "Nameplate"

Recommendation: For multiple elements, declaration as MLP is required by its semantic definition (based on IEC CDD and ECLASS). As the property value is language independent, users are recommended to provide maximal 1 string in any language of the user’s choice.

The SubmodelElements for this first level are described as follows. The table convention is explained in Annex A.2.

idShort:	**Nameplate**		
Class:	Submodel		
semanticId:	https://admin-shell.io/idta/nameplate/3/0/Nameplate		
Parent:	-		
Explanation:	Contains the nameplate information attached to the product		
Element details:	-		
[SME type] idShort	semanticId Description@en	[valueType] example	card.
[Prop] URIOfTheProduct	0112/2///61987#ABN590#002 supplementalSemanticId: 0173-1#02-ABH173#003 unique global identification of the product instance using an universal resource identifier (URI)	[AnyUri] https://www.domain-abc.com/Model-Nr-1234/Serial-Nr-5678	1

[MLP] ManufacturerName	0112/2///61987#ABA565#009 supplementalSemanticId: 0173-1#02-AAO677#004 legally valid designation of the natural or judicial person which is directly responsible for the design, production, packaging and labeling of a product in respect to its being brought into circulation	[] "Muster AG"@de	1
[MLP] ManufacturerProductDesignation	0112/2///61987#ABA567#009 supplementalSemanticId: 0173-1#02-AAW338#003 short description of the product (short text), third or lowest level of a 3 level manufacturer specific product hierarchy	[] "ABC-123"@en	1
[SMC] AddressInformation	https://admin-shell.io/zvei/nameplate/1/0/ContactInformations/AddressInformation supplementalSemanticId: https://admin-shell.io/smt-dropin/smt-dropin-use/1/0, 0112/2///61360_7#AAS002#001, 0173-1#02-AAQ837#008/0173-1#01-ADR448#008 Note: this set of information is defined by SMT drop-in "Address Information"	[]	1
[MLP] ManufacturerProductRoot	0112/2///61360_7#AAS011#001 supplementalSemanticId: 0173-1#02-AAU732#003 top level of a 3 level manufacturer specific product hierarchy	[] "flow meter"@en	0..1
[MLP] ManufacturerProductFamily	0112/2///61987#ABP464#002 supplementalSemanticId: 0173-1#02-AAU731#003 second level of a 3 level manufacturer specific product hierarchy	[] "Type ABC"@en	0..1
[Prop] ManufacturerProductType	0112/2///61987#ABA300#008 supplementalSemanticId: 0173-1#02-AAO057#004 characteristic to differentiate between different products of a product family or special variants	[String] FM-ABC-1234	0..1
[Prop] OrderCodeOfManufacturer	0112/2///61987#ABA950#008 supplementalSemanticId: 0173-1#02-AAO227#004 unique combination of numbers and letters issued by the manufacturer that is used to identify the device for ordering	[String] FMABC1234	1

[Prop] ProductArticleNumberOfManufacturer	0112/2///61987#ABA581#007 supplementalSemanticId: 0173-1#02-AAO676#005 unique product identifier of the manufacturer	[String] FM11-ABC22-123456	0..1
[Prop] SerialNumber	0112/2///61987#ABA951#009 supplementalSemanticId: 0173-1#02-AAM556#004 unique combination of numbers and letters used to identify the device once it has been manufactured	[String] 12345678	0..1
[Prop] YearOfConstruction	0112/2///61987#ABP000#002 supplementalSemanticId: 0173-1#02-AAP906#003 year in which the manufacturing process is completed	[String] 2022	0..1
[Prop] DateOfManufacture	0112/2///61987#ABB757#007 supplementalSemanticId: 0173-1#02-AAR972#004 date when an item was manufactured	[Date] 2022-01-01	0..1
[Prop] HardwareVersion	0112/2///61987#ABA926#008 supplementalSemanticId: 0173-1#02-AAN270#004 version of the hardware supplied with the device	[String] 1.0.0	0..1
[Prop] FirmwareVersion	0112/2///61987#ABA302#006 supplementalSemanticId: 0173-1#02AAM985#004 version of the firmware supplied with the device	[String] 1.0.0	0..1
[Prop] SoftwareVersion	0112/2///61987#ABA601#008 supplementalSemanticId: 0173-1#02-AAM985#004 version of the software used by the device	[String] 1.0.0	0..1
[Prop] CountryOfOrigin	0112/2///61987#ABP462#001 supplementalSemanticId: 0173-1#02-AAO259#007 country where the product was manufactured Note: Country codes defined accord. to DIN EN ISO 3166-1 alpha-2 codes	[String] DE	0..1
[Prop] UniqueFacilityIdentifier	https://admin-shell.io/idta/nameplate/3/0/UniqueFacilityIdentifier unique string of characters for the identification of locations or buildings involved in a product’s value chain or used by actors involved in a product’s value chain	[String] 987654321	0..1

[File] CompanyLogo	0112/2///61987#ABP463#001 supplementalSemanticId: 0173-1#02-ABI776#002 a graphic mark used to represent a company, an organisation or a product	[]	0..1
[SML] Markings	0112/2///61360_7#AAS006#001 supplementalSemanticId: 0173-1#02-ABI563#003/0173-1#01-AHF849#003 Note: CE marking is declared as mandatory according to EU Blue Guide	[] 1 elements	0..1
[SMC] AssetSpecificProperties	0173-1#02-ABI218#003/0173-1#01-AGZ672#004	[] 4 elements	0..1

3.2. Mandatory information for address information

In order to provide information about a physical address, the SMT drop-in Address Information defined by [11] is to be re-used in the context of digital nameplate.

Note: SMC AddressInformation is part of SMC ContactInformation of SMT ContactInformations [11].

As the SMC AddressInformation provides interoperable address information about asset's manufacturer, all properties within this SMC are defined as optional. This section defines **properties that are mandatorily required** to ensure the provision of physical address of the corresponding asset.

The following SubmodelElements shall be specified within SMC AddressInformation:

- MLP Street
- MLP Zipcode
- MLP CityTown
- MLP NationalCode

Figure 3 shows an example UML-diagram defining the relevant properties which need to be set mandatory.

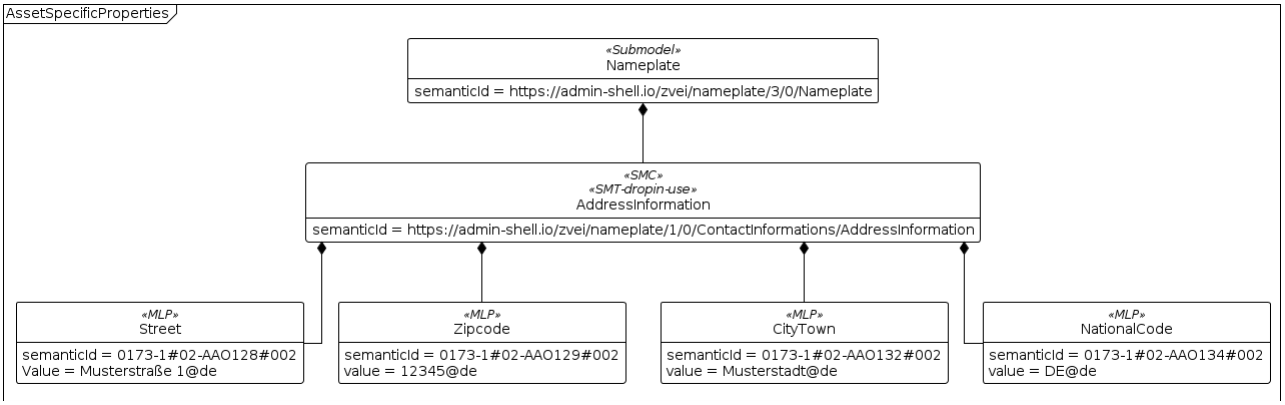


Figure 3. Example modelling of SMC 'AddressInformation'

3.3. Properties of the SML “Markings”

Figure 4 shows the UML-diagram for SML Markings.

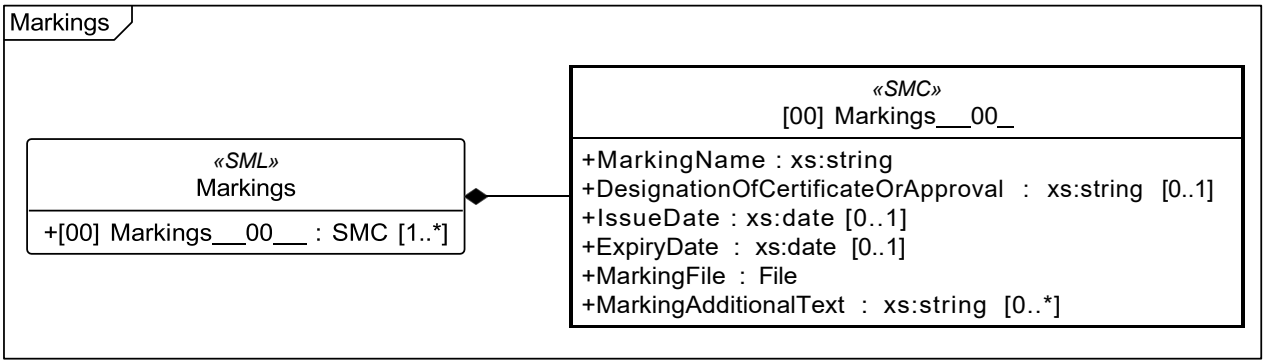


Figure 4. UML-Diagram for SML "Markings" and SMC "Markings__00__"

For the SML Markings, the list elements are described as follows. The table convention is explained in Annex A.2.

idShort:	**Markings**		
Class:	SubmodelElementList		
semanticId:	0112/2///61360_7#AAS006#001		
Parent:	Nameplate		
Explanation:	Note: CE marking is declared as mandatory according to EU Blue Guide		
Element details:	orderRelevant=No, typeValueListElement=SubmodelElementCollection		
[SME type] idShort	semanticId Description@en	[valueType] example	card.

[SMC] Markings _00 __	0112/2///61360_7#AAS009#001 supplementalSemanticId: 0173-1#02-ABI564#003/0173-1#01-AHF850#003 Single marking information Note: CE marking is declared as mandatory according to the Blue Guide of the EU-Commission	[] 6 elements	1..*

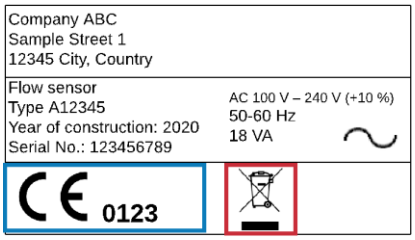
For a single SMC Markings__00__, the SubmodelElements are defined as follows. The table convention is explained in Annex A.2.

idShort:	**Markings__00___**		
Class:	SubmodelElementCollection		
semanticId:	0112/2///61360_7#AAS009#001		
Parent:	Markings		
Explanation:	Note: CE marking is declared as mandatory according to the Blue Guide of the EU-Commission		
Element details:	-		
[SME type] idShort	semanticId Description@en	[valueType] example	card.
[Prop] MarkingName	0112/2///61987#ABA231#009 supplementalSemanticId: 0173-1#02-ABI190#003 common name of the marking	[String] 0173-1#07-DAA603#004	1
[Prop] DesignationOfCertificateOrApproval	0112/2///61987#ABH783#003 supplementalSemanticId: 0173-1#02-ABI975#002 alphanumeric character sequence identifying a certificate or approval Note: Approval identifier, reference to the certificate number, to be entered without spaces	[String] KEMA99IECEX1105/128	0..1
[Prop] IssueDate	0112/2///61987#ABO097#001 supplementalSemanticId: 0173-1#02-ABL774#001 date, at which the specified certificate is issued Note: format by lexical representation: CCYY-MM-DD Note: to be specified to the day	[Date] 2022-01-01	0..1
[Prop] ExpiryDate	0112/2///61987#ABH830#002 supplementalSemanticId: 0173-1#02-ABL775#001 date, at which the specified certificate expires Note: format by lexical representation: CCYY-MM-DD Note: to be specified to the day	[Date] 2022-01-01	0..1

[File] MarkingFile	0112/2///61987#ABO100#002 supplementalSemanticId: 0173-1#02-ABI191#003 conformity symbol of the marking	[] /aasx/Nameplate/marking_ce.png	1
[Prop] MarkingAdditionalText	0112/2///61987#ABB146#007 supplementalSemanticId: 0173-1#02-ABI192#003 where applicable, additional information on the marking in plain text, e.g. the ID-number of the notified body involved in the conformity process	[String] 0044	0..*

Regarding property `MarkingName`, the preferable solution is to provide a valueId in IRDI originating from IEC CDD or ECLASS enumeration value list, e.g. "CE" (IRDI: 0112/2///61987#ABO409#003 or 0173-1#07-DAA603#004). In case none of the existing ECLASS enumeration values matches, filling plain string text into the “value” field of the property `MarkingName` can be accepted alternatively. It needs to be pointed out that ECLASS also provides marking definitions in terms of boolean property, e.g. “CE- qualification present” (IRDI: 0173-1#02-BAF053#008). In this case users should instead use a matching ECLASS enumeration value or, if not provided as enumeration, fill in plain string text.

The following example (see Figure 5) illustrates how to model product marking in an AAS. On the left side there is a sample nameplate which contains two markings to be modelled: the CE marking and the WEEE marking with a crossed-out wheeled bin. Next to the nameplate a table lists all properties and their attributes.



		CE	crossed-out wheeled bin (WEEE)
MarkingName	valueType	String	String
	value		WEEE
	valueId	[IRDI] 0173-1#07-DAA603#004	[URI] https://eur-lex.europa.eu/aas/2012-19-EU/crossed-out-wheeled-bin
MarkingFile	value	/aasx/Nameplate/marking_ce.png	/aasx/Nameplate/WEEE.png
	mimeType	image/png	image/png
MarkingAddi-tionalText	valueType	string	string
	value	0123	
	valueId		

Figure 5. Example modelling of SMC 'Marking'

3.4. Properties of the SMC “AssetSpecificProperties”

Figure 6 shows the UML-diagram defining the relevant properties which need to be set for asset specific properties.

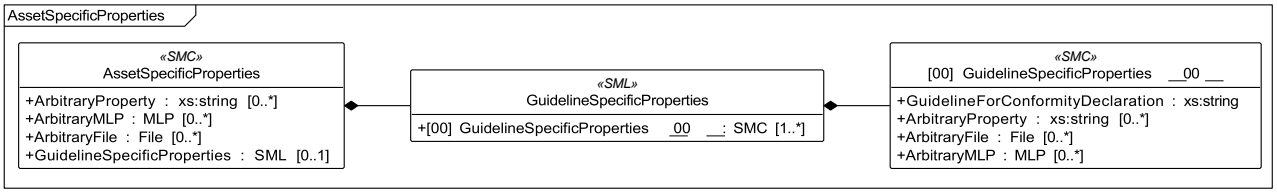


Figure 6. UML for asset specific properties and sub-structures

For the asset specific properties, the SubmodelElements are described as follows. The table convention is

explained in Annex A.2.

idShort:	AssetSpecificProperties		
Class:	SubmodelElementCollection		
semanticId:	0173-1#02-ABI218#003/0173-1#01-AGZ672#004		
Parent:	Nameplate		
Explanation:			
Element details:	-		
[SME type] idShort	semanticId Description@en	[valueType] example	card.
[Prop] ArbitraryProperty	https://admin-shell.io/SMT/General/ArbitraryProp Note: Every property can be used. Note: The idShort is arbitrary Note: The use of a displayName is recommended.	[String]	0..*
[MLP] ArbitraryMLP	https://admin-shell.io/SMT/General/ArbitraryMLP Note: Every multilanguage property can be used. Note: The idShort is arbitrary Note: The use of a displayName is recommended.	[] "sample"@en	0..*
[File] ArbitraryFile	https://admin-shell.io/SMT/General/ArbitraryFile Note: Every file can be used. The idShort is arbitrary Note: The use of a displayName is recommended.	[]	0..*
[SML] GuidelineSpecificProperties	0173-1#02-ABI219#003/0173-1#01-AHD205#004	[] 1 elements	0..1

3.5. Properties of the SMC “GuidelineSpecificProperties”

Figure 7 shows the UML-diagram defining the relevant properties which need to be set.

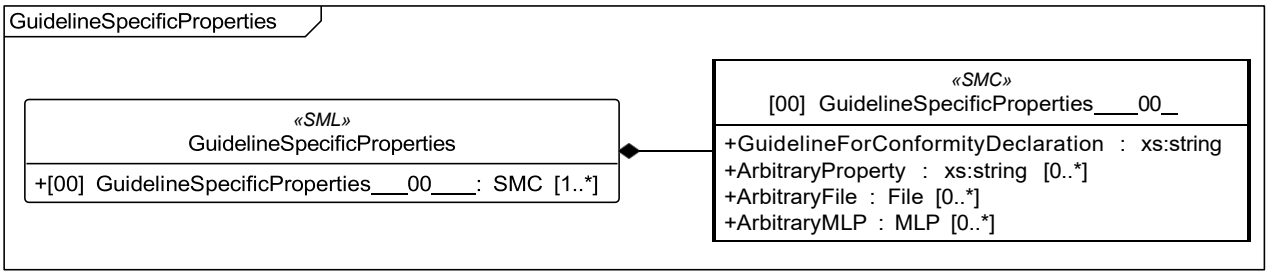


Figure 7. UML for guideline specific properties

For a single set of guideline specific properties, the SubmodelElements are described as follows. The table convention is explained in Annex A.2.

idShort:	**GuidelineSpecificProperties__00___**		
Class:	SubmodelElementCollection		
semanticId:	0173-1#01-AHD205#004		
Parent:	GuidelineSpecificProperties		
Explanation:			
Element details:	-		
[SME type] idShort	semanticId Description@en	[valueType] example	card.
[Prop] GuidelineForConformityDeclaration	0173-1#02-AAO856#002 guideline, stipulation or legislation used for determining conformity	[String]	1
[Prop] ArbitraryProperty	https://admin-shell.io/SMT/General/ArbitraryProp Note: Every property can be used. Note: The idShort is arbitrary Note: The use of a displayName is recommended.	[String]	0..*
[File] ArbitraryFile	https://admin-shell.io/SMT/General/ArbitraryFile Note: Every file can be used. The idShort is arbitrary Note: The use of a displayName is recommended.	[]	0..*
[MLP] ArbitraryMLP	https://admin-shell.io/SMT/General/ArbitraryMLP Note: Every multilanguage property can be used. Note: The idShort is arbitrary Note: The use of a displayName is recommended.	[] "sample"@en	0..*

Beside the mentioned EU Machine Regulation (EU) 2023/1230 which this Submodel template is compliant with, there might be further information required by further stipulations and regulations depending on different asset. The SMC “AssetSpecificProperties” and its child SMC “GuidelineSpecificProperties” are

therefore used to cover additional mandatory nameplate information while referencing the related stipulation or regulation.

In the following example (see Figure 8) a pressure equipment is addressed. Due to EU Directive 2014/68/EU the essential maximum/minimum allowable limits shall be provided for all pressure equipment. The example in Figure 8 shows a possible modelling of SMC “GuidelineSpecificProperties” in order to specify the minimum and maximum allowable pressure.

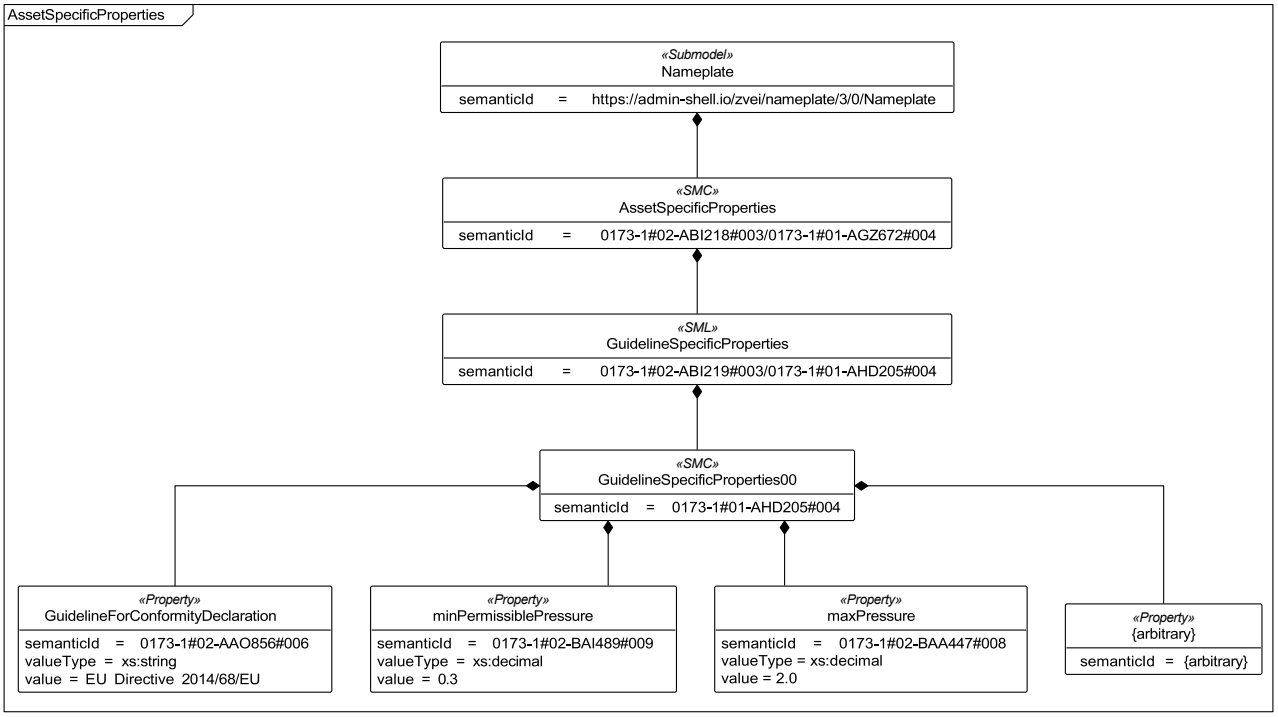


Figure 8. Example modelling of SMC “AssetSpecificProperties”

Annex A. Explanations on used table formats

1. 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.

2. 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 [] form 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 (see Table 1):

Table 1. Abbreviations for SubmodelElements

SME type	SubmodelElement type
Blob	Blob
Cap	Capability
Ent	Entity
Evt	Event
File	File
MLP	MultiLanguageProperty
Opr	Operation
Prop	Property
Range	Range
Ref	ReferenceElement
Rel	RelationshipElement
RelA	AnnotatedRelationshipElement
SMC	SubmodelElementCollection
SME	SubmodelElement type
SML	SubmodelElementList

- 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 choosen, 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: https://admin-shell.io/vdi/2770/1/0/DocumentId/Id. The attribute "type" (typically "ConceptDescription" and "(local)" or

"GlobalReference") 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@EN.
- The [valueType] is only given for Properties.

Annex B. Changes to the submodel template

General

This annex lists the changes from version to version of the Submodel, together with major changes in the overall document.

Changes Version 2.0 to 3.0

Major changes:

- Update to metamodel IDTA-01001-3-0-1
- Markings changed from SMC (Submodel Element Collection) to SML (Submodel Element List)
- SMC "ExplosionSafeties" removed; additional nameplate information for specific areas of application to be defined in other / supplementary submodel templates
- SMC "ContactInformation" was renamed to "AddressInformation" and is now defined by a drop-in from SMT drop-in "Address Information"; four mandatory properties are only listed in the document, not in the AASX file
- Property "UniqueFacilityIdentifier" was added to the structure of the Submodel Nameplate (in anticipation of the requirements of the European ESPR Regulation)
- Property "YearOfConstruction": changed cardinality from [1] (mandatory) to [0..1] (optional)
- Property "OrderCodeOfManufacturer": changed cardinality from [0..1] (optional) to [1] (mandatory)
- Description of "arbitrary" properties has been adapted to the latest IDTA recommendation: a seperate property is now listed for each of the different property and value types (Prop, MLP, File); adaption of semanticIds
- Further harmonization with dictionaries IEC CDD and ECLASS
  - Semantic IDs of SMC, SML and properties now refer to IEC CDD
  - Supplemental Semantic IDs added, referring to ECLASS
  - Semantic and Supplemental Semantic IDs refer to the latest versions in the dictionaries (e.g., ECLASS 15.0)
  - Data type of some properties changed:

Property / IdShort	DataType V 2.0	DataType V 3.0
URIOfTheProduct	String	AnyUri
OrderCodeOfManufacturer	langString	String
ManufacturerProductType	langString	String
ProductArticleNumberOfManufacturer	langString	String
HardwareVersion	langString	String
FirmwareVersion	langString	String
SoftwareVersion	langString	String

Changes Version 3.0 to 3.0.1

Changes in Version 3.0.1

Bug Fixes

This version addresses the following GitHub issues:

- #155 – *Digital Nameplate 3.0: Invalid TypeValueListElement for Markings*
- #131 – *SMT: Digital Nameplate → idShort empty*
- #123 – *Potentially erroneous ECLASS IRDI for "FirmwareVersion"*
- #116 – *Faulty formatted administration.templateId in Digital Nameplate*

Known issues

Aasx file will be valid as of metamodel V3.1. V3.1 will allow to add idShort for SME within a SML, which is used in this file for better readability.

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