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TECHNICAL SPECIFICATION

Definition of product profiles (oneM2M TS-0025 version 2.0.0 Release 2A)

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Foreword

This Technical Specification (TS) has been produced by ETSI Partnership Project oneM2M (oneM2M).

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Full standard:
<https://standards.iteh.ai/catalog/standards/sist/b0840dc-2edd-4ed0-9ff0-01af765a7b24/etsi-ts-118-125-v2.0.0-2020-03>

1 Scope

The present document specifies the detailed defined product profiles that can be used by manufactures and service providers where for each dedicated product, one of the defined product profile can be selected. The product profile would provide guidance to what features will be implemented, what features should be implemented and what features may be implemented. The present document also describes the test purposes that need to go through if the product need to be certified.

2 References

2.1 Normative references

References are either specific (identified by date of publication and/or edition number or version number) or non-specific. For specific references, only the cited version applies. For non-specific references, the latest version of the referenced document (including any amendments) applies.

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NOTE: While any hyperlinks included in this clause were valid at the time of publication, ETSI cannot guarantee their long term validity.

The following referenced documents are not necessary for the application of the present document but they assist the user with regard to a particular subject area.

[i.1] oneM2M Drafting Rules.

NOTE: Available at <http://www.onem2m.org/images/files/oneM2M-Drafting-Rules.pdf>.

[i.2] ETSI TS 118 131: "oneM2M Feature Catalogue (oneM2M TS-0031)".

[i.3] ETSI TS 118 101: "oneM2M; Functional Architecture (oneM2M TS-0001)".

3 Definition of terms, symbols and abbreviations

3.1 Terms

Void

3.2 Symbols

Void.

3.3 Abbreviations

Void.

4 Conventions

The key words "Shall", "Shall not", "May", "Need not", "Should", "Should not" in the present document are to be interpreted as described in the oneM2M Drafting Rules [i.1].

5 Product service profiles

5.1 Introduction

This clause defines Product Profiles. Product may be Implementations of oneM2M specification. The Implementation is claimed to comply with one or multiple Product Profiles. Each profile is defined with fundamental feature set and extendable feature set. Fundamental feature set includes Features that shall be implemented if the Implementation under test needs to be certified against the profile. Extendable feature set includes features that are recommended to be implemented for optimization purposes. The features in the extendable feature set may be tested based on the requirement. The features in this clause are defined in ETSI TS 118 131 [i.2]. Each profile is also composed of a profile description and a profile example. The profile description is the definition of profile and describes the suitable products that should comply to this profile. The profile example gives some real market product examples as well as the usage and scenarios of the product.

Each of the Profile contains the following Features as common Features.

Table 5.1-1: Fundamental feature sets for all Profiles

Function	Feature Set	Feature	Remark
GEN	GE/GEN/00001	At least one	Support one of the bindings.
	GE/GEN/00002	At least one	Support one of the serializations.

5.2 Constrained sensor as ADN

5.2.1 Profile description

The profile defines constraint sensor that is powered by battery and intended to be used for years after deployment without any human interference for maintenance. Therefore, the function of constraint sensor needs to be very limited.

A sensor is intended to be reporting sensed data to the CSE periodically or according to some other period. Every time the sensor reports data, it sends one message to the CSE. In order to save battery, the sensor can be sleeping before and after the reporting of sensed data.

For the successful report of data, there is needed some context resource architecture like the AE resource, the container resource, etc. The resource architecture can be pre-configured in order to minimize the complexity of the constraint sensor.

5.2.2 Profile usage examples

The profile applies to constraint sensors that report periodically sensed data. Some example of this kind of product include:

- Electricity, water, gas meters that report consumed amount of electricity, water or gas to the CSE. The meters are deployed inside houses and are powered by battery.

- Temperature, humidity sensors that are deployed in the open air for environment monitoring. The sensors can be deployed in places that are hardly reachable for people that the sensor's need to be working without human inference for years powered with battery.

5.2.3 Fundamental feature sets

For constrained sensors, the features in the fundamental feature sets assume that the registration relationship between the ADN and the registrar CSE has been pre-configured beforehand. The <container> resource has also been pre-configured and the resource id of the <container> resource was provisioned to the ADN as well. The ADN could utilize the resource id of the <container> resource to create <contentInstance> directly.

Table 5.2.3-1: Fundamental feature sets for constrained sensor as ADN

Function	Feature Set	Feature	Remark	
GEN	AE/GEN/00001	At least one	Support one of the format of resource identification	TP/oneM2M/AE/GEN/CRE/001_CSR TP/oneM2M/AE/GEN/CRE/001_SPR TP/oneM2M/AE/GEN/CRE/001_ABS TP/oneM2M/AE/GEN/CRE/002_CSR TP/oneM2M/AE/GEN/CRE/002_SPR TP/oneM2M/AE/GEN/CRE/002_ABS TP/oneM2M/AE/GEN/UPD/001_CSR TP/oneM2M/AE/GEN/UPD/001_SPR TP/oneM2M/AE/GEN/UPD/001_ABS TP/oneM2M/AE/GEN/UPD/002_CSR TP/oneM2M/AE/GEN/UPD/002_SPR TP/oneM2M/AE/GEN/UPD/002_ABS TP/oneM2M/AE/GEN/RET/001_CSR TP/oneM2M/AE/GEN/RET/001_SPR TP/oneM2M/AE/GEN/RET/001_ABS TP/oneM2M/AE/GEN/RET/002_CSR TP/oneM2M/AE/GEN/RET/002_SPR TP/oneM2M/AE/GEN/RET/002_ABS TP/oneM2M/AE/GEN/DEL/001_CSR TP/oneM2M/AE/GEN/DEL/001_SPR TP/oneM2M/AE/GEN/DEL/001_ABS TP/oneM2M/AE/GEN/DEL/002_CSR TP/oneM2M/AE/GEN/DEL/002_SPR TP/oneM2M/AE/GEN/DEL/002_ABS
	AE/GEN/00002	AE/GEN/00002/00001	Support create request	TP/oneM2M/AE/DMR/CRE/001
DMR	AE/DMR/00002	AE/DMR/00002/00001	Support create contentInstance	TP/oneM2M/AE/DMR/CRE/002

5.2.4 Extendable feature sets

Table 5.2.4-1: Extendable feature sets for constrained sensor as ADN

Function	Feature Set	Feature	Remark	
REG	AE/REG/00002	AE/REG/00002/00001	Create <AE>	TP/oneM2M/AE/REG//CRE/001 TP/oneM2M/AE/REG/CRE/002_RR
		AE/GEN/00003/00001	Create <AE> with resourceName	TP/oneM2M/AE/REG/CRE/002_RN
		AE/GEN/00003/00002	Create <AE> with expirationTime	TP/oneM2M/AE/REG/CRE/002_ET
		AE/DIS/00001/00017	Create <AE> with labels	TP/oneM2M/AE/REG/CRE/002_LBL
		AE/REG/00002/00002	Create <AE> with applicationName	TP/oneM2M/AE/REG/CRE/002_APN
DMR	AE/DMR/00001	AE/DMR/00001/00001	Create <container> with no attribute set	TP/oneM2M/AE/DMR/CRE/001
		AE/GEN/00003/00001	Create <container> with resourceName	TP/oneM2M/AE/DMR/CRE/004_RN
		AE/GEN/00003/00002	Create <container> with expirationTime	TP/oneM2M/AE/DMR/CRE/004_ET
		AE/DIS/00001/00017	Create <container> with labels	TP/oneM2M/AE/DMR/CRE/004_LBL
		AE/DMR/00001/00002	Create <container> with maxNrOfInstances	TP/oneM2M/AE/DMR/CRE/004_MNI
		AE/DMR/00001/00003	Create <container> with maxByteSize	TP/oneM2M/AE/DMR/CRE/004_MBS
		AE/DMR/00001/00004	Create <container> with maxInstanceAge	TP/oneM2M/AE/DMR/CRE/004_MIA
	AE/DMR/00002	AE/GEN/00003/00001	Create <contentInstance> with resourceName	TP/oneM2M/AE/DMR/CRE/003_RN
		AE/GEN/00003/00002	Create <contentInstance> with expirationTime	TP/oneM2M/AE/DMR/CRE/003_ET
		AE/DIS/00001/00017	Create <contentInstance> with labels	TP/oneM2M/AE/DMR/CRE/003_LBL
		AE/DMR/00002/00002	Create <contentInstance> with contentInfo	TP/oneM2M/AE/DMR/CRE/003_CNF

5.3 Constrained actuator as ADN

5.3.1 Profile description

The profile defines constraint actuator that is powered by battery and intended to be used for years after deployment without any human interference for maintenance. Therefore, the function of constraint actuator needs to be very limited.

An actuator is intended to be receiving control command from CSE via notification or other means. The actuator then actuates according to the control command.

The actuator needs to receive control command. As a result, the actuator needs to be request reachable to receive notification or be able to start a polling channel.

5.3.2 Profile usage examples

Switches deployed along the street light to switch on or off the street light remotely.

5.3.3 Fundamental feature sets

Table 5.3.3-1: Fundamental feature sets for constrained sensor as ADN

Function	Feature Set	Feature	Remark	
GEN	AE/GEN/00001	At least one	Resource identifiers	TP/oneM2M/AE/GEN/CRE/001_CSR TP/oneM2M/AE/GEN/CRE/001_SPR TP/oneM2M/AE/GEN/CRE/001_ABS TP/oneM2M/AE/GEN/CRE/002_CSR TP/oneM2M/AE/GEN/CRE/002_SPR TP/oneM2M/AE/GEN/CRE/002_ABS TP/oneM2M/AE/GEN/UPD/001_CSR TP/oneM2M/AE/GEN/UPD/001_SPR TP/oneM2M/AE/GEN/UPD/001_ABS TP/oneM2M/AE/GEN/UPD/002_CSR TP/oneM2M/AE/GEN/UPD/002_SPR TP/oneM2M/AE/GEN/UPD/002_ABS TP/oneM2M/AE/GEN/RET/001_CSR TP/oneM2M/AE/GEN/RET/001_SPR TP/oneM2M/AE/GEN/RET/001_ABS TP/oneM2M/AE/GEN/RET/002_CSR TP/oneM2M/AE/GEN/RET/002_SPR TP/oneM2M/AE/GEN/RET/002_ABS TP/oneM2M/AE/GEN/DEL/001_CSR TP/oneM2M/AE/GEN/DEL/001_SPR TP/oneM2M/AE/GEN/DEL/001_ABS TP/oneM2M/AE/GEN/DEL/002_CSR TP/oneM2M/AE/GEN/DEL/002_SPR TP/oneM2M/AE/GEN/DEL/002_ABS
GEN	AE/GEN/00002	AE/GEN/00002/00001	Support Create request targeting one resource	TP/oneM2M/AE/DMR/CRE/001
REG	AE/REG/00002	AE/REG/00002/00001	Create <AE> with mandatory attributes[2]	TP/oneM2M/AE/REG/CRE/001 TP/oneM2M/AE/REG/CRE/002_RR
REG	AE/REG/00002	AE/REG/00002/00003	Create <AE> with pointOfAccess	TP/oneM2M/AE/REG/CRE/002_POA
SUB	AE/SUB/00001	AE/SUB/00001/00001	Create <subscription> with mandatory attributes[2]	TP/oneM2M/AE/SUB/CRE/001

5.3.4 Extendable feature sets

Void.

5.4 ADN profile 3

5.4.1 Profile description

This profile defines features for normal sensor devices or software components that desire to implement oneM2M sensing services. The sensing services such as monitoring temperature, detecting illumination, collection of location information, etc. are characterized with collecting and uploading measurement data into a destination e.g. a repository. The scope of normal sensor devices cover those that are powered by electricity power or by battery that can be easily changed when the battery is off and have rich resources compared to resource-constraint sensor devices.

The sensing service profile defines a set of features required to implement sensing functionalities including creation and update of <container>, creation of <contentInstance>, etc.

5.4.2 Profile usage examples

This profile applies to normal sensors deployed in non-critical environments have relative rich resources and are powered by electricity power or by battery that can be easily changed. This profile can also apply to software components that implements sensing services.

Taking smart socket as an example, when a manufacturer-A decides to design a smart socket with oneM2M sensing service, he can refer to the Sensing Service Profile to check the fundamental features that are required to implement. The fundamental features for Sensing Service Profile are defined in clause 5.4.3. When another manufacturer-B also designs a smart socket complying with the Sensing Service Profile, these two smart sockets produced from two different manufacturers are interoperable potentially to work together to implement complex tasks.

5.4.3 Fundamental feature sets

Container is used for storing the measurements of sensing device and whenever there is data measured from the sensing device, the data will be sent to the CSE for storage by sending a <contentInstance> create request from the originator where the encoded measurement is included within the payload of the <contentInstance> create request.

oneM2M sensing service profile consists of minimum features to implement Data Management for Container and ContentInstance functionality shown in table 5.4.3-1.

Table 5.4.3-1: Fundamental feature set for ADN profile 3

Function	Feature Set	Feature	Remark	
GEN	AE/GEN/00001	At least one	Support one of the format of resource identification	TP/oneM2M/AE/GEN/CRE/001_CSR TP/oneM2M/AE/GEN/CRE/001_SPR TP/oneM2M/AE/GEN/CRE/001_ABS TP/oneM2M/AE/GEN/CRE/002_CSR TP/oneM2M/AE/GEN/CRE/002_SPR TP/oneM2M/AE/GEN/CRE/002_ABS TP/oneM2M/AE/GEN/UPD/001_CSR TP/oneM2M/AE/GEN/UPD/001_SPR TP/oneM2M/AE/GEN/UPD/001_ABS TP/oneM2M/AE/GEN/UPD/002_CSR TP/oneM2M/AE/GEN/UPD/002_SPR TP/oneM2M/AE/GEN/UPD/002_ABS TP/oneM2M/AE/GEN/RET/001_CSR TP/oneM2M/AE/GEN/RET/001_SPR TP/oneM2M/AE/GEN/RET/001_ABS TP/oneM2M/AE/GEN/RET/002_CSR TP/oneM2M/AE/GEN/RET/002_SPR TP/oneM2M/AE/GEN/RET/002_ABS TP/oneM2M/AE/GEN/DEL/001_CSR TP/oneM2M/AE/GEN/DEL/001_ABS TP/oneM2M/AE/GEN/DEL/002_CSR TP/oneM2M/AE/GEN/DEL/002_SPR TP/oneM2M/AE/GEN/DEL/002_ABS
	AE/GEN/00002	AE/GEN/00002/00001	Support Create request targeting one resource	TP/oneM2M/AE/DMR/CRE/001
REG	AE/REG/00002	AE/REG/00002/00001	Create <AE> with mandatory attributes	TP/oneM2M/AE/REG//CRE/001 TP/oneM2M/AE/REG/CRE/002_RR
DMR	AE/DMR/00001	AE/DMR/00001/00001	Create <container> with no attribute set	TP/oneM2M/AE/DMR/CRE/001
	AE/DMR/00002	AE/DMR/00002/00001	Create <contentInstance> with mandatory attributes	TP/oneM2M/AE/DMR/CRE/002

5.4.4 Extendable feature sets

Void.

5.5 ADN Profile 4

5.5.1 Profile description

oneM2M provides several logical entity concepts called 'Node' to explain oneM2M Architecture in ETSI TS 118 101 [i.3]. And from the descriptions about the node types, it indicates some examples that particular node could match with physical oneM2M devices (e.g. ADN -> constrainedconstrained oneM2M Device). But for the oneM2M device developers, more detail information may require to design and implement physical devices.

This ADN Profile 4 defines set of common features which could be used for small originator device types of oneM2M services.

5.5.2 Profile usage examples

ADN Profile 1 could be the basic profile of oneM2M devices like sensor, actuator, etc. And also this profile could be used independently when developers want to implement oneM2M devices with special functions.

5.5.3 Fundamental feature sets

Table 5.5.3-1: Feature set for ADN Profile 4

Function	Feature Set	Feature	Remark		
GEN	AE/GEN/00001	At least one	Support one of the format of resource identification	TP/oneM2M/AE/GEN/CRE/001_CSR	
				TP/oneM2M/AE/GEN/CRE/001_SPR	
				TP/oneM2M/AE/GEN/CRE/001_ABS	
				TP/oneM2M/AE/GEN/CRE/002_CSR	
				TP/oneM2M/AE/GEN/CRE/002_SPR	
				TP/oneM2M/AE/GEN/CRE/002_ABS	
				TP/oneM2M/AE/GEN/UPD/001_CSR	
				TP/oneM2M/AE/GEN/UPD/001_SPR	
				TP/oneM2M/AE/GEN/UPD/001_ABS	
				TP/oneM2M/AE/GEN/UPD/002_CSR	
				TP/oneM2M/AE/GEN/UPD/002_SPR	
				TP/oneM2M/AE/GEN/UPD/002_ABS	
				TP/oneM2M/AE/GEN/RET/001_CSR	
				TP/oneM2M/AE/GEN/RET/001_SPR	
				TP/oneM2M/AE/GEN/RET/001_ABS	
TP/oneM2M/AE/GEN/RET/002_CSR					
TP/oneM2M/AE/GEN/RET/002_SPR					
TP/oneM2M/AE/GEN/RET/002_ABS					
TP/oneM2M/AE/GEN/DEL/001_CSR					
TP/oneM2M/AE/GEN/DEL/001_SPR					
TP/oneM2M/AE/GEN/DEL/001_ABS					
TP/oneM2M/AE/GEN/DEL/002_CSR					
TP/oneM2M/AE/GEN/DEL/002_SPR					
TP/oneM2M/AE/GEN/DEL/002_ABS					
AE/GEN/00002	AE/GEN/00002/00001	Support Create request targeting one resource	TP/oneM2M/AE/DMR/CRE/001		
			AE/GEN/00002/00002	Support Retrieve request targeting one resource	TP/oneM2M/AE/DMR/RET/001_CB
					TP/oneM2M/AE/DMR/RET/001_AE
			AE/GEN/00002/00003	Support Update request targeting one resource	TP/oneM2M/AE/DMR/UPD/002_LBL
AE/GEN/00002/00004	Support Delete request targeting one resource	TP/oneM2M/AE/DMR/DEL/003			

Function	Feature Set	Feature	Remark			
REG	AE/REG/00001	AE/REG/00001/00001	The Retrieval of <CSEBase> resource	TP/oneM2M/AE/DMR/RET/001_CB		
	AE/REG/00002	AE/REG/00002/00001	Create <AE> with mandatory attributes	TP/oneM2M/AE/REG/CRE/001 TP/oneM2M/AE/REG/CRE/002_RR		
		AE/GEN/00003/00001	Create <AE> with <i>resourceName</i> attribute	TP/oneM2M/AE/REG/CRE/002_RN		
		AE/GEN/00003/00002	Create <AE> with <i>expirationTime</i> attribute	TP/oneM2M/AE/REG/CRE/002_ET		
		AE/DIS/00001/00017	Create <AE> with <i>labels</i>	TP/oneM2M/AE/REG/CRE/002_LBL		
		AE/REG/00002/00002	Create <AE> with <i>applicationName</i>	TP/oneM2M/AE/REG/CRE/002_APN		
		AE/REG/00002/00003	Create <AE> with <i>pointOfAccess</i>	TP/oneM2M/AE/REG/CRE/002_POA		
		AE/REG/00002/00004	Create <AE> with <i>nodeLink</i>	TP/oneM2M/AE/REG/CRE/002_NL		
		AE/REG/00002/00005	Create <AE> with <i>contentSerialization</i>	TP/oneM2M/AE/REG/CRE/002_CSZ		
		AE/GEN/00003/00002	Update <AE> with <i>expirationTime</i>	TP/oneM2M/AE/DMR/UPD/001_ET		
		AE/DIS/00001/00017	Update <AE> with <i>labels</i>	TP/oneM2M/AE/DMR/UPD/001_LBL		
		AE/REG/00002/00007	Update <AE> with <i>applicationName</i>	TP/oneM2M/AE/DMR/UPD/001_APN		
		AE/REG/00002/00008	Update <AE> with <i>pointOfAccess</i>	TP/oneM2M/AE/DMR/UPD/001_POA		
		AE/REG/00002/00009	Update <AE> with <i>nodeLink</i>	TP/oneM2M/AE/DMR/UPD/001_NL		
		AE/GEN/00002/00005	Update <AE> with <i>requestReachability</i>	TP/oneM2M/AE/DMR/UPD/001_RR		
		AE/REG/00002/00010	Update <AE> with <i>contentSerialization</i>	TP/oneM2M/AE/DMR/UPD/001_CSZ		
		AE/REG/00002/00013	Delete <AE>	TP/oneM2M/AE/REG/DEL/001		
		AE/REG/00002/00012	Retrieve <AE>	TP/oneM2M/AE/DMR/RET/001_AE		
		DMR	AE/DMR/00001	AE/DMR/00001/00001	Create <container> with no attribute set	TP/oneM2M/AE/DMR/CRE/001
				AE/GEN/00003/00001	Create <container> with <i>resourceName</i>	TP/oneM2M/AE/DMR/CRE/004_RN
AE/GEN/00003/00002	Create <container> with <i>expirationTime</i>			TP/oneM2M/AE/DMR/CRE/004_ET		
AE/DIS/00001/00017	Create <container> with <i>labels</i>			TP/oneM2M/AE/DMR/CRE/004_LBL		
AE/DMR/00001/00002	Create <container> with <i>maxNrOfInstances</i>			TP/oneM2M/AE/DMR/CRE/004_MNI		
AE/DMR/00001/00003	Create <container> with <i>maxByteSize</i>			TP/oneM2M/AE/DMR/CRE/004_MBS		
AE/DMR/00001/00004	Create <container> with <i>maxInstanceAge</i>			TP/oneM2M/AE/DMR/CRE/004_MIA		
AE/GEN/00003/00002	Update <container> with <i>expirationTime</i>			TP/oneM2M/AE/DMR/UPD/002_ET		
AE/DIS/00001/00017	Update <container> with <i>labels</i>			TP/oneM2M/AE/DMR/UPD/002_LBL		
AE/DMR/00001/00006	Update <container> with <i>maxNrOfInstances</i>			TP/oneM2M/AE/DMR/UPD/002_MNI		
AE/DMR/00001/00007	Update <container> with <i>maxByteSize</i>			TP/oneM2M/AE/DMR/UPD/002_MBS		
AE/DMR/00001/00008	Update <container> with <i>maxInstanceAge</i>			TP/oneM2M/AE/DMR/UPD/002_MIA		
AE/DMR/00001/00011	Delete <container>			TP/oneM2M/AE/DMR/DEL/003		
AE/DMR/00001/00012	Retrieve <container>			TP/oneM2M/AE/DMR/RET/004		