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oneM2M 技術仕様書

oneM2M Technical Specification  
Product Profiles

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一般社団法人

情報通信技術委員会

THE TELECOMMUNICATION TECHNOLOGY COMMITTEE

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<参考> [Remarks]

1. 英文記述の適用レベル [Application level of English description]

適用レベル [Application level] : E2

本標準の本文、付属資料および付録の文章および図に英文記述を含んでいる。

[English description is included in the text and figures of main body, annexes and appendices.]

2. 国際勧告等の関連 [Relationship with international recommendations and standards]

本標準は、oneM2M で承認された Technical Specification 0025V2.0.0 に準拠している。

[This standard is standardized based on the Technical Specification 0025 (V2.0.0) approved by oneM2M.]

3. 上記国際勧告等に対する追加項目等 [Departures from international recommendations]

原標準に対する変更項目 [Changes to original standard]

原標準が参照する標準のうち、TTC 標準に置き換える項目。

[Standards referred to in the original standard, which are replaced by TTC standards.]

原標準が参照する標準のうち、それらに準拠した TTC 標準等が制定されている場合は自動的に最新版 TTC 標準等に置き換え参照するものとする。

[Standards referred to in the original standard should be replaced by derived TTC standards.]

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5. 作成専門委員会 [Working Group]

oneM2M 専門委員会 [oneM2M Working Group]



## ONEM2M TECHNICAL SPECIFICATION

Document Number	TS-0025-V-2.0.0
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## About oneM2M

The purpose and goal of oneM2M is to develop technical specifications which address the need for a common M2M Service Layer that can be readily embedded within various hardware and software, and relied upon to connect the myriad of devices in the field with M2M application servers worldwide.

More information about oneM2M may be found at: <http://www.oneM2M.org>

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# 1 Scope

The 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 shall 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.

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# 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.

The following referenced documents are necessary for the application of the present document.

Not applicable.

## 2.2 Informative 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.

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] oneM2M TS-0031: "oneM2M Features".

[i.3] oneM2M TS-0001: "Functional Architecture".

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# 3 Definitions, symbols and abbreviations

Void.

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# 4 Conventions

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

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## 5 Product service profiles

### 5.1 Introduction

The 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 purpose. The features in the extendable feature set may be tested based on the requirement. The features in the clause are defined in oneM2M TS-0031 [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 need to be very limited.

A sensor is intended to be reporting sensed data to the CSE periodically or according to some other period. Everytime 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 before hand. 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 need 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 need to receive control command. As a result, the actuator need 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_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
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 oneM2M TS-0001 [1.3]. And from the descriptions about the node types indicates some examples that particular node could match with physical oneM2M devices (e.g. ADN -> constrained oneM2M Device). But for the oneM2M device developers, may require more detail information to design and implement physical devices.

This ADN Profile 1 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 device 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 TP/oneM2M/AE/DMR/RET/001_CNT
			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
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 attribute</i>	TP/oneM2M/AE/REG/CRE/002_RN	
		AE/GEN/00003/00002	Create <AE> with <i>expirationTime attribute</i>	TP/oneM2M/AE/REG/CRE/002_ET	

Function	Feature Set	Feature	Remark	
		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
	AE/DMR/00002	AE/DMR/00002/00001	Create <contentInstance> with mandatory attributes	TP/oneM2M/AE/DMR/CRE/002
		AE/GEN/00003/00001	Create <contentInstance> with <i>resourceName</i>	TP/oneM2M/AE/DMR/CRE/003_RN
		AE/GEN/00003/00002	Create <contentInstance> with <i>expirationTime</i>	TP/oneM2M/AE/DMR/CRE/003_ET
		AE/DIS/00001/00017	Create <contentInstance> with <i>labels</i>	TP/oneM2M/AE/DMR/CRE/003_LBL

Function	Feature Set	Feature	Remark	
		AE/DMR/00002/00002	Create <contentInstance> with <i>contentInfo</i>	TP/oneM2M/AE/DMR/CRE/003_CNF
		AE/DMR/00002/00003	Create <contentInstance> with <i>contentRef</i>	TP/oneM2M/AE/DMR/CRE/003_CONR
		AE/DMR/00002/00004	Retrieve <contentInstance> resource targeting the <contentInstance> resource	TP/oneM2M/AE/DMR/RET/005
		AE/DMR/00002/00005	Retrieve oldest <contentInstance> resource targeting the <oldest> resource	TP/oneM2M/AE/DMR/RET/002
		AE/DMR/00002/00006	Retrieve latest <contentInstance> resource targeting the <latest> resource	TP/oneM2M/AE/DMR/RET/003
		AE/DMR/00002/00007	Delete <contentInstance>	TP/oneM2M/AE/DMR/DEL/004
		AE/DMR/00002/00008	Delete oldest <contentInstance> resource targeting the <oldest> resource	TP/oneM2M/AE/DMR/DEL/001
		AE/DMR/00002/00009	Delete latest <contentInstance> resource targeting the <latest> resource	TP/oneM2M/AE/DMR/DEL/002

## 5.5.4 Extendable feature sets

Table 5.5.4-1

Function	Feature Set	Feature	Remark	
REG	AE/REG/00002	AE/REG/00002/00001	Create <AE> with <i>App-ID</i> attribute	TP/oneM2M/AE/REG/CRE/002_API
		VOID	Create <AE> with <i>ontologyRef</i> attribute	TP/oneM2M/AE/REG/CRE/002_OR
		VOID	Update <AE> with <i>ontologyRef</i> attribute	TP/oneM2M/AE/DMR/UPD/001_OR
DMR	AE/DMR/00001	AE/SEC/00001/00007	Create <container> with <i>acpi</i>	TP/oneM2M/AE/DMR/CRE/004 ACPI
		VOID	Create <container> with <i>ontologyRef</i>	TP/oneM2M/AE/DMR/CRE/004_OR
		VOID	Create <container> with <i>locationID</i>	TP/oneM2M/AE/DMR/CRE/004_LI
SUB	AE/SUB/00001	AE/SUB/00001/00002	Create <subscription> with <i>labels</i>	TP/oneM2M/AE/SUB/CRE/002_LBL
		AE/SUB/00001/00005	Create <subscription> with <i>subscriberURI</i>	TP/oneM2M/AE/SUB/CRE/002_SU
		AE/SEC/00001/00007	Create <subscription> with <i>acpi</i>	TP/oneM2M/AE/SUB/CRE/002 ACPI
		AE/SUB/00002/00001	Create <subscription> with <i>eventNotificationCriteria</i>	TP/oneM2M/AE/SUB/CRE/002_ENC
		AE/SUB/00002/00002	Create <subscription> with <i>expirationCounter</i>	TP/oneM2M/AE/SUB/CRE/002_EXC
		AE/SUB/00003/00001	Create <subscription> with <i>notificationForwardingURI</i>	TP/oneM2M/AE/SUB/CRE/002_NFU
		AE/SUB/00002/00009	Create <subscription> with <i>notificationContentType</i>	TP/oneM2M/AE/SUB/CRE/002_NCT
		AE/SUB/00002/00010	Create <subscription> with <i>notificationEventCat</i>	TP/oneM2M/AE/SUB/CRE/002_NEC
		VOID	Support NOTIFY Request	TP/oneM2M/AE/SUB/NTF/001 TP/oneM2M/AE/SUB/NTF/002

## 5.6 IN Profile

### 5.6.1 Profile description

oneM2M provides several logical entity concepts called 'Node' to explain oneM2M Architecture in oneM2M TS-0001 [i.3]. And from the descriptions about the node types indicates some examples that particular node could match with physical oneM2M devices (e.g. ADN -> constrained oneM2M Device). But for the oneM2M device developers, may require more detail information to design and implement physical devices.

This IN Profile 1 defines set of common features which could be used for server device type of oneM2M services.

### 5.6.2 Profile usage examples

IN Profile 1 could be the common profile of oneM2M devices like service server etc. And also this profile could be used independently when developers want to implement oneM2M device with special functions.



### 5.6.3 Fundamental feature sets

**Table 5.6.3-1: Fundamental feature set for IN Profile**

Function	Feature Set	Feature	Remark	
GEN	CE/GEN/00001	CE/GEN/00001/00001	Support Unstructured resource identifier	TP/oneM2M/CSE/GEN/CRE/001_CSR TP/oneM2M/CSE/GEN/CRE/001_SPR TP/oneM2M/CSE/GEN/CRE/001_ABS TP/oneM2M/CSE/GEN/UPD/001_CSR TP/oneM2M/CSE/GEN/UPD/001_SPR TP/oneM2M/CSE/GEN/UPD/001_ABS TP/oneM2M/CSE/GEN/RET/001_CSR TP/oneM2M/CSE/GEN/RET/001_SPR TP/oneM2M/CSE/GEN/RET/001_ABS TP/oneM2M/CSE/GEN/DEL/001_CSR TP/oneM2M/CSE/GEN/DEL/001_SPR TP/oneM2M/CSE/GEN/DEL/001_ABS
		CE/GEN/00001/00002	Support Structured resource identifier	TP/oneM2M/CSE/GEN/CRE/002_CSR TP/oneM2M/CSE/GEN/CRE/002_SPR TP/oneM2M/CSE/GEN/CRE/002_ABS TP/oneM2M/CSE/GEN/UPD/002_CSR TP/oneM2M/CSE/GEN/UPD/002_SPR TP/oneM2M/CSE/GEN/UPD/002_ABS TP/oneM2M/CSE/GEN/RET/002_CSR TP/oneM2M/CSE/GEN/RET/002_SPR TP/oneM2M/CSE/GEN/RET/002_ABS TP/oneM2M/CSE/GEN/DEL/002_CSR TP/oneM2M/CSE/GEN/DEL/002_SPR TP/oneM2M/CSE/GEN/DEL/002_ABS
GEN	CE/GEN/00002	CE/GEN/00002/00001	Support blocking request	
REG	CE/REG/00001	CE/REG/00001/00001	Support <CSEBase> resource.	TP/oneM2M/CSE/REG/CRE/021 TP/oneM2M/CSE/REG/RET/001 TP/oneM2M/CSE/REG/RET/008 TP/oneM2M/CSE/REG/UPD/001 TP/oneM2M/CSE/REG/DEL/001
		CE/REG/00001/00002	Support the <i>cseType</i> attribute of <CSEBase>	TP/oneM2M/CSE/REG/RET/002_CST TP/oneM2M/CSE/REG/RET/005
		CE/REG/00001/00003	Support the <i>nodeLink</i> attribute of <CSEBase>	TP/oneM2M/CSE/REG/RET/002_NL
	CE/REG/00002	CE/REG/00002/00001	Support <AE> resource	TP/oneM2M/CSE/REG/RET/003 TP/oneM2M/CSE/REG/DEL/003 TP/oneM2M/CSE/DMR/RET/013_AE TP/oneM2M/CSE/DMR/UPD/016_AE/ET TP/oneM2M/CSE/DMR/UPD/016_AE/RR
		CE/REG/00002/00002	AE registration/de-registration without a pre-assigned AE-ID in the registration request and where the AE-ID Stem is configured with 'C'.	TP/oneM2M/CSE/REG/CRE/004 TP/oneM2M/CSE/REG/CRE/009 TP/oneM2M/CSE/REG/CRE/011 TP/oneM2M/CSE/REG/CRE/016 TP/oneM2M/CSE/REG/CRE/017_API TP/oneM2M/CSE/REG/CRE/017_RR TP/oneM2M/CSE/REG/CRE/022 TP/oneM2M/CSE/REG/CRE/023
		CE/REG/00002/00003	AE registration/de-registration without a pre-assigned AE-ID in the registration request and where the AE-ID Stem is configured with 'S'.	
CE/REG/00002/00004	AE registration/de-registration without			

Function	Feature Set	Feature	Remark	
			a pre-assigned AE-ID in the registration request and where no AE-ID Stem is included.	
		CE/REG/00002/00005	AE registration/de-registration without a pre-assigned AE-ID in the registration request and where the AE-ID Stem is configured with 'S' and where announcement to an IN-CSE is needed to get an AE-ID assigned	
		CE/DIS/00001/00006	Support the <i>labels</i> attribute of <AE> resource	TP/oneM2M/CSE/REG/CRE/012_AE/LBL TP/oneM2M/CSE/REG/RET/004_LBL TP/oneM2M/CSE/DMR/UPD/015_AE/LBL
		CE/REG/00002/00007	Support the <i>applicationName</i> attribute of <AE> resource	TP/oneM2M/CSE/REG/CRE/012_AE/APN TP/oneM2M/CSE/REG/RET/004_APN TP/oneM2M/CSE/DMR/UPD/015_AE/APN
		CE/REG/00002/00008	Support the <i>pointOfAccess</i> attribute of <AE> resource	TP/oneM2M/CSE/REG/CRE/012_AE/POA TP/oneM2M/CSE/REG/RET/004_POA TP/oneM2M/CSE/DMR/UPD/015_AE/POA
		CE/REG/00002/00009	AE registration with pre-assigned AE-ID	TP/oneM2M/CSE/REG/CRE/001 TP/oneM2M/CSE/REG/CRE/002
	CE/REG/00004	CE/REG/00004/00001	Support <remoteCSE> resource with attributes multiplicity equals 1[1]	TP/oneM2M/CSE/REG/CRE/018 TP/oneM2M/CSE/REG/CRE/019 TP/oneM2M/CSE/REG/CRE/025 TP/oneM2M/CSE/REG/RET/006 TP/oneM2M/CSE/REG/RET/010 TP/oneM2M/CSE/REG/DEL/002 TP/oneM2M/CSE/DMR/UPD/016_CSR/ET TP/oneM2M/CSE/DMR/UPD/016_CSR/RR
		CE/DIS/00001/00006	Support the <i>labels</i> attribute of <remoteCSE> resource	TP/oneM2M/CSE/REG/CRE/013_LBL TP/oneM2M/CSE/REG/CRE/028_LBL TP/oneM2M/CSE/REG/RET/007_LBL TP/oneM2M/CSE/REG/UPD/002_LBL
		CE/REG/00004/00002	Support the <i>cseType</i> attribute of <remoteCSE> resource	TP/oneM2M/CSE/REG/CRE/013_CST TP/oneM2M/CSE/REG/RET/007_CST
		CE/REG/00004/00003	Support the <i>pointOfAccess</i> attribute of <remoteCSE> resource	TP/oneM2M/CSE/REG/CRE/013_POA TP/oneM2M/CSE/REG/CRE/028_POA TP/oneM2M/CSE/REG/RET/007_POA TP/oneM2M/CSE/REG/UPD/002_POA
		CE/REG/00004/00004	Support the <i>nodeLink</i> attribute of <remoteCSE> resource	TP/oneM2M/CSE/REG/CRE/013_NL TP/oneM2M/CSE/REG/CRE/028_NL TP/oneM2M/CSE/REG/RET/007_NL TP/oneM2M/CSE/REG/UPD/002_NL
DMR	CE/DMR/00001	CE/DMR/00001/00001	Support <container> resource with attributes multiplicity equals 1[1]	TP/oneM2M/CSE/DMR/CRE/001_CNT/CB TP/oneM2M/CSE/DMR/CRE/001_CNT/AE TP/oneM2M/CSE/DMR/CRE/001_CNT/CNT TP/oneM2M/CSE/DMR/CRE/002_CNT TP/oneM2M/CSE/DMR/CRE/003_CNT TP/oneM2M/CSE/DMR/CRE/007 TP/oneM2M/CSE/DMR/CRE/008

Function	Feature Set	Feature	Remark	
				TP/oneM2M/CSE/DMR/CRE/009 TP/oneM2M/CSE/DMR/CRE/010 TP/oneM2M/CSE/DMR/CRE/011 TP/oneM2M/CSE/DMR/CRE/014_CNT_CIN TP/oneM2M/CSE/DMR/RET/001_CNT TP/oneM2M/CSE/DMR/RET/013_CNT TP/oneM2M/CSE/DMR/UPD/001_CNT/LBL TP/oneM2M/CSE/DMR/UPD/002_CNT/LBL TP/oneM2M/CSE/DMR/UPD/003_CNT/LBL TP/oneM2M/CSE/DMR/UPD/004_CNT/ET/MNI/LBL TP/oneM2M/CSE/DMR/UPD/005_CNT/EXC TP/oneM2M/CSE/DMR/UPD/007_CNT/CT TP/oneM2M/CSE/DMR/UPD/008_CNT/ET TP/oneM2M/CSE/DMR/UPD/009_CNT/LBL TP/oneM2M/CSE/DMR/UPD/010 TP/oneM2M/CSE/DMR/UPD/016_CNT/ET TP/oneM2M/CSE/DMR/DEL/001_CNT TP/oneM2M/CSE/DMR/DEL/005 TP/oneM2M/CSE/DMR/DEL/006
		CE/DIS/00001/00006	Support the <i>labels</i> attribute of <container> resource	TP/oneM2M/CSE/DMR/CRE/012_CNT/LBL TP/oneM2M/CSE/DMR/UPD/014_CNT/LBL TP/oneM2M/CSE/DMR/UPD/015_CNT/LBL
		CE/DMR/00002/00001	Support the <i>creator</i> attribute of <container> resource	TP/oneM2M/CSE/DMR/CRE/012_CNT/CR
		CE/DMR/00001/00002	Support the <i>maxNrOfInstances</i> attribute of <container> resource	TP/oneM2M/CSE/DMR/CRE/005_MNI TP/oneM2M/CSE/DMR/CRE/006_MNI TP/oneM2M/CSE/DMR/CRE/012_CNT/MNI TP/oneM2M/CSE/DMR/UPD/014_CNT/MNI TP/oneM2M/CSE/DMR/UPD/015_CNT/MNI
		CE/DMR/00001/00003	Support the <i>maxByteSize</i> attribute of <container> resource	TP/oneM2M/CSE/DMR/CRE/005_MBS TP/oneM2M/CSE/DMR/CRE/006_MBS TP/oneM2M/CSE/DMR/CRE/012_CNT/MBS TP/oneM2M/CSE/DMR/CRE/013 TP/oneM2M/CSE/DMR/UPD/014_CNT/MBS TP/oneM2M/CSE/DMR/UPD/015_CNT/MBS
		CE/DMR/00001/00004	Support the <i>maxInstanceAge</i> attribute of <container> resource	TP/oneM2M/CSE/DMR/CRE/005_MIA TP/oneM2M/CSE/DMR/CRE/006_MIA TP/oneM2M/CSE/DMR/CRE/012_CNT/MIA TP/oneM2M/CSE/DMR/UPD/014_CNT/MIA TP/oneM2M/CSE/DMR/UPD/015_CNT/MIA
	CE/DMR/00002	CE/DMR/00002/00001	Support <contentInstance> resource with attributes multiplicity equals 1[1]	TP/oneM2M/CSE/DMR/CRE/001_CIN/CNT TP/oneM2M/CSE/DMR/RET/001_CIN TP/oneM2M/CSE/DMR/UPD/011 TP/oneM2M/CSE/DMR/DEL/001_CIN
		CE/DIS/00001/00006	Support the <i>labels</i> attribute of <contentInstance> resource	TP/oneM2M/CSE/DMR/CRE/012_CIN/LBL
		CE/DMR/00002/00001	Support the <i>creator</i> attribute of <contentInstance> resource	TP/oneM2M/CSE/DMR/CRE/012_CIN/CR
		CE/DMR/00002/00002	Support the <i>contentInfo</i> attribute of <contentInstance> resource	TP/oneM2M/CSE/DMR/CRE/012_CIN/CNF
		CE/DMR/00002/00004	Retrieve and Delete of latest <contentInstance>	TP/oneM2M/CSE/DMR/RET/012 TP/oneM2M/CSE/DMR/UPD/012 TP/oneM2M/CSE/DMR/DEL/007

Function	Feature Set	Feature	Remark	
			resource by <latest> virtual resource	
		CE/DMR/00002/00057	Retrieve and Delete of oldest <contentInstance> resource by <oldest> virtual resource	TP/oneM2M/CSE/DMR/RET/010 TP/oneM2M/CSE/DMR/UPD/013 TP/oneM2M/CSE/DMR/DEL/009
SUB	CE/SUB/00001	CE/SUB/00001/00001	The Support of <subscription> resource with attributes multiplicity equals 1[1]	TP/oneM2M/CSE/DMR/CRE/001_SUB/CB TP/oneM2M/CSE/DMR/CRE/001_SUB/AE TP/oneM2M/CSE/DMR/CRE/001_SUB/CNT TP/oneM2M/CSE/DMR/CRE/001_SUB/ACP TP/oneM2M/CSE/DMR/CRE/001_SUB/CSR TP/oneM2M/CSE/DMR/CRE/001_SUB/GRP TP/oneM2M/CSE/DMR/CRE/002_SUB TP/oneM2M/CSE/DMR/CRE/003_SUB TP/oneM2M/CSE/DMR/RET/001_SUB TP/oneM2M/CSE/DMR/RET/013_SUB TP/oneM2M/CSE/DMR/UPD/001_SUB/LBL TP/oneM2M/CSE/DMR/UPD/002_SUB/LBL TP/oneM2M/CSE/DMR/UPD/003_SUB/LBL TP/oneM2M/CSE/DMR/UPD/004_SUB/ET/LBL/EXC TP/oneM2M/CSE/DMR/UPD/005_SUB/MNI TP/oneM2M/CSE/DMR/UPD/007_SUB/CT TP/oneM2M/CSE/DMR/UPD/008_SUB/ET TP/oneM2M/CSE/DMR/UPD/009_SUB/LBL TP/oneM2M/CSE/DMR/UPD/016_SUB/ET TP/oneM2M/CSE/DMR/UPD/016_SUB/NU TP/oneM2M/CSE/DMR/UPD/016_SUB/NCT TP/oneM2M/CSE/DMR/DEL/001_SUB
		CE/DIS/00001/00006	Support the <i>labels</i> attribute of <subscription> resource.	TP/oneM2M/CSE/DMR/CRE/012_SUB/LBL TP/oneM2M/CSE/DMR/UPD/014_SUB/LBL TP/oneM2M/CSE/DMR/UPD/015_SUB/LBL
		CE/SUB/00001/00001	Support the <i>creator</i> attribute of <subscription> resource	TP/oneM2M/CSE/DMR/CRE/012_SUB/CR
		CE/SUB/00001/00001	Support the <i>subscriberURI</i> attribute of <subscription> resource	TP/oneM2M/CSE/DMR/CRE/012_SUB/SU
	CE/SUB/00004	CE/SUB/00004/00001	Notify the address indicated in <i>notificationURI</i> with notification elements multiplicity equals 1[2]	TP/oneM2M/CSE/SUB/CRE/001_SUB TP/oneM2M/CSE/SUB/CRE/001_CIN TP/oneM2M/CSE/SUB/CRE/003 TP/oneM2M/CSE/SUB/CRE/005
		CE/SUB/00004/00002	Notify with notificationEvent/representation set in the notification	TP/oneM2M/CSE/SUB/CRE/005 TP/oneM2M/CSE/SUB/UPD/001 TP/oneM2M/CSE/SUB/DEL/001
		CE/SUB/00004/00003	Notify with creator set in the notification	TP/oneM2M/CSE/SUB/CRE/004
SEC	CE/SEC/00001	CE/SEC/00001/00001	Support <accessControlPolicy> resource with attributes multiplicity equals 1[1]	TP/oneM2M/CSE/DMR/CRE/001_ACP/CB TP/oneM2M/CSE/DMR/CRE/001_ACP/AE TP/oneM2M/CSE/DMR/CRE/001_ACP/AEA TP/oneM2M/CSE/DMR/CRE/002_ACP TP/oneM2M/CSE/DMR/CRE/003_ACP TP/oneM2M/CSE/DMR/RET/001_ACP TP/oneM2M/CSE/DMR/RET/013_ACP

Function	Feature Set	Feature	Remark	
				TP/oneM2M/CSE/DMR/UPD/001_ACP/LBL TP/oneM2M/CSE/DMR/UPD/002_ACP/LBL TP/oneM2M/CSE/DMR/UPD/003_ACP/LBL TP/oneM2M/CSE/DMR/UPD/004_ACP/PV/AT/LBL TP/oneM2M/CSE/DMR/UPD/005_ACP/EXC TP/oneM2M/CSE/DMR/UPD/007_ACP/CT TP/oneM2M/CSE/DMR/UPD/008_ACP/ET TP/oneM2M/CSE/DMR/UPD/009_ACP/LBL TP/oneM2M/CSE/DMR/UPD/016_ACP/ET TP/oneM2M/CSE/DMR/UPD/016_ACP/PV TP/oneM2M/CSE/DMR/UPD/016_ACP/PVS TP/oneM2M/CSE/DMR/DEL/001_ACP TP/oneM2M/CSE/SEC/ACP/CRE/001 TP/oneM2M/CSE/SEC/ACP/CRE/002 TP/oneM2M/CSE/SEC/ACP/CRE/003 TP/oneM2M/CSE/SEC/ACP/CRE/004
		CE/DIS/00001/00006	Support the <i>labels</i> attribute of <accessControlPolicy> resource	TP/oneM2M/CSE/DMR/CRE/012_ACP/LBL TP/oneM2M/CSE/DMR/UPD/014_ACP/LBL TP/oneM2M/CSE/DMR/UPD/015_ACP/LBL
	CE/SEC/00002	CE/SEC/00002/00001	Support <i>accessControlPolicyIDs</i> attribute for <resource> that the Implementation supports.	TP/oneM2M/CSE/DMR/CRE/012_SUB/ACPI TP/oneM2M/CSE/DMR/CRE/012_CNT/ACPI TP/oneM2M/CSE/DMR/UPD/014_CNT/ACPI TP/oneM2M/CSE/DMR/UPD/015_AE/ACPI TP/oneM2M/CSE/DMR/UPD/015_CNT/ACPI TP/oneM2M/CSE/DMR/UPD/015_SUB/ACPI TP/oneM2M/CSE/DMR/UPD/015_GRP/ACPI TP/oneM2M/CSE/SEC/ACP/UPD/001 TP/oneM2M/CSE/SEC/ACP/UPD/002
		CE/SEC/00002/00002	Support access control decision and enforcement making on the Hosting CSE	TP/oneM2M/CSE/DMR/CRE/004_CNT TP/oneM2M/CSE/DMR/CRE/004_ACP TP/oneM2M/CSE/DMR/CRE/004_SUB TP/oneM2M/CSE/DMR/CRE/004_GRP TP/oneM2M/CSE/DMR/RET/003_ACP TP/oneM2M/CSE/DMR/RET/003_CNT TP/oneM2M/CSE/DMR/RET/003_SUB TP/oneM2M/CSE/DMR/RET/014_ACP TP/oneM2M/CSE/DMR/RET/014_AE TP/oneM2M/CSE/DMR/RET/014_CNT TP/oneM2M/CSE/DMR/RET/014_CSR TP/oneM2M/CSE/DMR/RET/014_SUB TP/oneM2M/CSE/DMR/RET/014_GRP TP/oneM2M/CSE/DMR/UPD/006_CNT/LBL TP/oneM2M/CSE/DMR/UPD/006_ACP/LBL TP/oneM2M/CSE/DMR/UPD/006_SUB/LBL TP/oneM2M/CSE/DMR/DEL/002_CNT TP/oneM2M/CSE/DMR/DEL/002_ACP TP/oneM2M/CSE/DMR/DEL/002_SUB TP/oneM2M/CSE/DMR/DEL/002_GRP TP/oneM2M/CSE/SUB/CRE/002 TP/oneM2M/CSE/SEC/ACP/001_CRE TP/oneM2M/CSE/SEC/ACP/001_UPD TP/oneM2M/CSE/SEC/ACP/001_RET TP/oneM2M/CSE/SEC/ACP/001_DEL TP/oneM2M/CSE/SEC/ACP/002_CRE TP/oneM2M/CSE/SEC/ACP/002_UPD TP/oneM2M/CSE/SEC/ACP/002_RET TP/oneM2M/CSE/SEC/ACP/002_DEL TP/oneM2M/CSE/SEC/ACP/003_CRE TP/oneM2M/CSE/SEC/ACP/003_UPD TP/oneM2M/CSE/SEC/ACP/003_RET TP/oneM2M/CSE/SEC/ACP/003_DEL TP/oneM2M/CSE/SEC/ACP/004_CRE TP/oneM2M/CSE/SEC/ACP/004_UPD TP/oneM2M/CSE/SEC/ACP/004_RET

Function	Feature Set	Feature	Remark	
				TP/oneM2M/CSE/SEC/ACP/004_DEL TP/oneM2M/CSE/SEC/ACP/005_CRE TP/oneM2M/CSE/SEC/ACP/005_UPD TP/oneM2M/CSE/SEC/ACP/005_RET TP/oneM2M/CSE/SEC/ACP/005_DEL TP/oneM2M/CSE/SEC/ACP/006_CRE TP/oneM2M/CSE/SEC/ACP/006_UPD TP/oneM2M/CSE/SEC/ACP/006_RET TP/oneM2M/CSE/SEC/ACP/006_DEL TP/oneM2M/CSE/SEC/ACP/007_CRE TP/oneM2M/CSE/SEC/ACP/007_UPD TP/oneM2M/CSE/SEC/ACP/007_RET TP/oneM2M/CSE/SEC/ACP/007_DEL TP/oneM2M/CSE/SEC/ACP/008_CRE TP/oneM2M/CSE/SEC/ACP/008_UPD TP/oneM2M/CSE/SEC/ACP/008_RET TP/oneM2M/CSE/SEC/ACP/008_DEL TP/oneM2M/CSE/SEC/ACP/009_CRE TP/oneM2M/CSE/SEC/ACP/009_UPD TP/oneM2M/CSE/SEC/ACP/009_RET TP/oneM2M/CSE/SEC/ACP/009_DEL TP/oneM2M/CSE/SEC/ACP/010_CRE TP/oneM2M/CSE/SEC/ACP/010_UPD TP/oneM2M/CSE/SEC/ACP/010_RET TP/oneM2M/CSE/SEC/ACP/010_DEL TP/oneM2M/CSE/SEC/ACP/011_CRE TP/oneM2M/CSE/SEC/ACP/011_UPD TP/oneM2M/CSE/SEC/ACP/011_RET TP/oneM2M/CSE/SEC/ACP/011_DEL TP/oneM2M/CSE/SEC/ACP/012_CRE TP/oneM2M/CSE/SEC/ACP/012_UPD TP/oneM2M/CSE/SEC/ACP/012_RET TP/oneM2M/CSE/SEC/ACP/012_DEL

## 5.6.4 Extendable feature sets

**Table 5.6.4-1: Extendable feature set for IN Profile**

Function	Feature Set	Feature	Remark	
DIS	CE/DIS/00001	CE/DIS/00001/00001	Support the Discovery request with filterUsage equals to "Discovery"	TP/oneM2M/CSE/DIS/001 TP/oneM2M/CSE/DIS/002 TP/oneM2M/CSE/DIS/003 TP/oneM2M/CSE/DIS/004 TP/oneM2M/CSE/DIS/005 TP/oneM2M/CSE/DIS/006
		CE/DIS/00001/00002	Support discovery with filterCriteria ( <i>createdBefore, createdAfter, modifiedSince, unmodifiedSince, stateTagSmaller, stateTagBigger, expireBefore, expireAfter, labels, resourceType, sizeAbove, sizeBelow, contentType, limit, attribute</i> )	TP/oneM2M/CSE/DIS/007 TP/oneM2M/CSE/DIS/008 TP/oneM2M/CSE/DIS/009
		CE/DIS/00001/00003	Support discovery with filterCriteria ( <i>level, offset</i> )	
		CE/DIS/00001/00004	Support discovery with content filter ( <i>contentFilterSyntax, contentFilterQuery</i> of filterCriteria)	
		CE/DIS/00001/00005	Support discovery with filterCriteria ( <i>filterOperation</i> )	
GMG	CE/GMG/00001	CE/GMG/00001/00001	Support the <group> resource with attributes multiplicity equals 1[1]	TP/oneM2M/CSE/DMR/CRE/001_GRP/CB TP/oneM2M/CSE/DMR/CRE/001_GRP/AE TP/oneM2M/CSE/DMR/CRE/002_GRP TP/oneM2M/CSE/DMR/CRE/003_GRP TP/oneM2M/CSE/DMR/RET/001_GRP TP/oneM2M/CSE/DMR/RET/013_GRP TP/oneM2M/CSE/DMR/UPD/001_GRP/LBL TP/oneM2M/CSE/DMR/UPD/002_GRP/LBL TP/oneM2M/CSE/DMR/UPD/003_GRP/LBL TP/oneM2M/CSE/DMR/UPD/004_GRP/ET/GN/LBL TP/oneM2M/CSE/DMR/UPD/005_GRP/EXC TP/oneM2M/CSE/DMR/UPD/006_GRP/LBL TP/oneM2M/CSE/DMR/UPD/007_GRP/CT TP/oneM2M/CSE/DMR/UPD/008_GRP/ET TP/oneM2M/CSE/DMR/UPD/009_GRP/LBL TP/oneM2M/CSE/DMR/UPD/016_GRP/ET TP/oneM2M/CSE/DMR/UPD/016_GRP/MNM TP/oneM2M/CSE/DMR/UPD/016_GRP/MID TP/oneM2M/CSE/DMR/DEL/001_GRP TP/oneM2M/CSE/DMR/DEL/002_GRP TP/oneM2M/CSE/GMG/CRE/001 TP/oneM2M/CSE/GMG/CRE/003 TP/oneM2M/CSE/GMG/UPD/002 TP/oneM2M/CSE/GMG/UPD/007 TP/oneM2M/CSE/GMG/UPD/008
		CE/DIS/00001/00006	Support the <i>labels</i> attribute of <group> resource	TP/oneM2M/CSE/DMR/UPD/015_GRP/LBL
		CE/GMG/00001/00001	Support the <i>creator</i> attribute of <group> resource	
		CE/GMG/00001/00001	Support the <i>groupName</i> attribute of <group> resource	TP/oneM2M/CSE/DMR/UPD/015_GRP/GN
	CE/GMG/00002	CE/GMG/00002/00001	Support the <i>memberTypeValidated</i> attribute of <group> resource	
		CE/GMG/00002/00002	Support the validation of member's resource type and	TP/oneM2M/CSE/GMG/CRE/002 TP/oneM2M/CSE/GMG/CRE/004

Function	Feature Set	Feature	Remark	
			set the <i>memberTypeValidated</i> as well as the procedure to update the group according to <i>consistencyStrategy</i>	TP/oneM2M/CSE/GMG/CRE/005 TP/oneM2M/CSE/GMG/CRE/006 TP/oneM2M/CSE/GMG/CRE/007 TP/oneM2M/CSE/GMG/UPD/001 TP/oneM2M/CSE/GMG/UPD/003 TP/oneM2M/CSE/GMG/UPD/004 TP/oneM2M/CSE/GMG/UPD/005 TP/oneM2M/CSE/GMG/UPD/006 TP/oneM2M/CSE/GMG/UPD/009 TP/oneM2M/CSE/GMG/UPD/010
		CE/GMG/00002/00003	Support the <i>consistencyStrategy</i> attribute of <group> resource	
	CE/GMG/00003	CE/GMG/00003/00001	Fan out of request to all members and aggregate member responses	TP/oneM2M/CSE/GMG/RET/001 TP/oneM2M/CSE/GMG/001_CRE TP/oneM2M/CSE/GMG/001_RET TP/oneM2M/CSE/GMG/001_UPD TP/oneM2M/CSE/GMG/001_DEL TP/oneM2M/CSE/GMG/002_CRE TP/oneM2M/CSE/GMG/002_RET TP/oneM2M/CSE/GMG/002_UPD TP/oneM2M/CSE/GMG/002_DEL TP/oneM2M/CSE/GMG/003_CRE TP/oneM2M/CSE/GMG/003_RET TP/oneM2M/CSE/GMG/003_UPD TP/oneM2M/CSE/GMG/003_DEL TP/oneM2M/CSE/GMG/004_CRE TP/oneM2M/CSE/GMG/004_RET TP/oneM2M/CSE/GMG/004_UPD TP/oneM2M/CSE/GMG/004_DEL TP/oneM2M/CSE/GMG/005_CRE TP/oneM2M/CSE/GMG/005_RET TP/oneM2M/CSE/GMG/005_UPD TP/oneM2M/CSE/GMG/005_DEL TP/oneM2M/CSE/GMG/006_CRE TP/oneM2M/CSE/GMG/006_RET TP/oneM2M/CSE/GMG/006_UPD TP/oneM2M/CSE/GMG/006_DEL
		CE/GMG/00003/00002	Create sub group resource in case multiple members belong to same member CSE	
		CE/GMG/00003/00003	Create <subscription> resource via group without aggregating notifications	
		CE/GMG/00003/00004	Create <subscription> resource via group and aggregate notifications	
		CE/GMG/00003/00005	Support the <i>membersAccessControlPolicy</i> Ds attribute of <group> resource	TP/oneM2M/CSE/DMR/UPD/015_GRP/MAC P
DMG	CE/DMG/00001	CE/DMG/00001/00001	Support <node> resource with attributes multiplicity equals 1[1]	
		CE/DMG/00001/00002	Support the <i>labels</i> attribute of <node> resource	
		CE/DMG/00001/00003	Support the <i>hostedCSELink</i> attribute of <node> resource	
	CE/DMG/00002	CE/DMG/00002/00001	Support <mgmtObj> resource with attributes multiplicity equals 1[1]	
		CE/DMG/00002/00002	Support the <i>labels</i> attribute of <mgmtObj> resource	
		CE/DMG/00002/00003	Support the <i>description</i> attribute of <mgmtObj> resource	



Function	Feature Set	Feature	Remark	
		CE/DMG/00002/00004	Support the <i>mgmtLink</i> attribute of <mgmtObj> resource	
	CE/DMG/00003	CE/DMG/00003/00001	Support the [software] specialization attributes multiplicity equals 1[1]	
		CE/DMG/00003/00002	Support the <i>activate</i> attribute of [software] resource	
		CE/DMG/00003/00003	Support the <i>deactivate</i> attribute of [software] resource	
		CE/DMG/00003/00004	Support the <i>activeStatus</i> attribute of [software] resource	
	CE/DMG/00004	CE/DMG/00004/00001	Support the [firmware] specialization attributes multiplicity equals 1[1]	
	CE/DMG/00005	CE/DMG/00005/00001	Support the [deviceInfo] specialization attributes multiplicity equals 1[1]	
	CE/DMG/00006	CE/DMG/00006/00001	Support [deviceCapability] specialization attributes multiplicity equals 1[1]	
		CE/DMG/00006/00002	Support the <i>enable</i> attribute of [deviceCapability] resource	
		CE/DMG/00006/00003	Support the <i>disable</i> attribute of [deviceCapability] resource	
	CE/DMG/00007	CE/DMG/00007/00001	Support [reboot] specialization attributes multiplicity equals 1[1]	
	CE/DMG/00008	CE/DMG/00008/00001	Support [memory] specialization attributes multiplicity equals 1[1]	
	CE/DMG/00009	CE/DMG/00009/00001	Support the [battery] specialization attributes multiplicity equals 1[1]	
	CE/DMG/00010	CE/DMG/00010/00001	Support [eventLog] specialization attributes multiplicity equals 1[1]	
	CE/DMG/00011	CE/DMG/00011/00001	Support [areaNwkInfo] specialization attributes multiplicity equals 1[1]	
	CE/DMG/00012	CE/DMG/00012/00001	Support [areaNwkDeviceInfo] specialization attributes multiplicity equals 1[1]	
		CE/DMG/00012/00002	Support the <i>sleepInterval</i> attribute of [areaNwkDeviceInfo] resource	
		CE/DMG/00012/00003	Support the <i>sleepDuration</i> attribute of [areaNwkDeviceInfo] resource	
		CE/DMG/00012/00004	Support the <i>status</i> attribute of [areaNwkDeviceInfo] resource	
	CE/DMG/00013	CE/DMG/00013/00001	Support the <i>objectIDs</i> attribute of <mgmtObj> resource	
		CE/DMG/00013/00002	Support the <i>objectPaths</i> attribute of <mgmtObj> resource	
		CE/DMG/00013/00003	Support the <i>mgmtLink</i> attribute of <mgmtObj> resource	

## 5.7 Constrained actuator as ASN

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

The features described in this profile are features of CSE as the ASN exposes Mcc reference point outside. There are internal AEs of the ASN to synchronize the actual device state with the resource hosted by the ASN-CSE. However, in this profile, the ASN-AE is not sending information to the other CSE's, it's not necessary to include the oneM2M defined AE Features in this profile.

### 5.7.2 Profile usage examples

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

### 5.7.3 Fundamental feature sets

The fundamental feature set assumes that the resource id of the <container> resource needed for create <contentInstance> is pre-configured at the ASN-CSE and provisioned to the AEs that tends to send request to the ASN-CSE.

**Table 5.7.3-1: Fundamental feature sets for constrained sensor as ASN**

Function	Feature Set	Feature	Remark	
GEN	CE/GEN/00001	CE/GEN/00001/00001	Unstructured resource id	
		CE/GEN/00001/00002	Structured resource id	
	CE/GEN/00002	CE/GEN/00002/00001	Support blocking request	
REG	CE/REG/00005	CE/REG/00005/00001	The Creation with <remoteCSE> resource for CSE registration with mandatory attributes[2]	TP/oneM2M/CSE/REG/CRE/024
		CE/REG/00005/00006	Create the <remoteCSE> with <i>pointOfAccess</i>	TP/oneM2M/CSE/REG/CRE/026_POA
DMR	CE/DMR/00002	CE/DMR/00002/00001	Support <contentInstance> resource with attributes multiplicity equals 1[1]	

### 5.7.4 Extendable feature sets

Void.

## 5.8 Gateway as MN

### 5.8.1 Profile description

The profile defines gateways that may support multiple different area network technologies and connect devices from the corresponding area networks. The devices may be oneM2M defined ADNs, ASNs or NoDNs which are not defined by oneM2M. The gateway hosts resources to enforce common services that devices in the area network may utilize the enable local services without the dependency of the platform and the wide area network.

### 5.8.2 Profile usage examples

Home gateways deployed in the home for smart home:

Sensors, actuators and home appliances are connected with the home gateway. Applications can be connected through the platform to access the smart home service as well as applications can be directly connected with the gateway to do the same thing.

Head unit in connected vehicles:

Sensors and actuators in the car are connected with the head unit. The sensed data and control command are reported to delivered through the head unit. Applications may access the head unit and monitor the car state via the platform. Applications may also access the head unit once connected directly with the head unit via area network such as Wifi or Bluetooth.

### 5.8.3 Fundamental feature sets

Table 5.8.3-1: Fundamental feature sets for gateway as MN

Function	Feature Set	Feature	Remark	
GEN	CE/GEN/00001	CE/GEN/00001/00001	Unstructured resource id	TP/oneM2M/CSE/GEN/CRE/001_CSR TP/oneM2M/CSE/GEN/CRE/001_SPR TP/oneM2M/CSE/GEN/CRE/001_ABS TP/oneM2M/CSE/GEN/UPD/001_CSR TP/oneM2M/CSE/GEN/UPD/001_SPR TP/oneM2M/CSE/GEN/UPD/001_ABS TP/oneM2M/CSE/GEN/RET/001_CSR TP/oneM2M/CSE/GEN/RET/001_SPR TP/oneM2M/CSE/GEN/RET/001_ABS TP/oneM2M/CSE/GEN/DEL/001_CSR TP/oneM2M/CSE/GEN/DEL/001_SPR TP/oneM2M/CSE/GEN/DEL/001_ABS
		CE/GEN/00001/00002	Structured resource id	TP/oneM2M/CSE/GEN/CRE/002_CSR TP/oneM2M/CSE/GEN/CRE/002_SPR TP/oneM2M/CSE/GEN/CRE/002_ABS TP/oneM2M/CSE/GEN/UPD/002_CSR TP/oneM2M/CSE/GEN/UPD/002_SPR TP/oneM2M/CSE/GEN/UPD/002_ABS TP/oneM2M/CSE/GEN/RET/002_CSR TP/oneM2M/CSE/GEN/RET/002_SPR TP/oneM2M/CSE/GEN/RET/002_ABS TP/oneM2M/CSE/GEN/DEL/002_CSR TP/oneM2M/CSE/GEN/DEL/002_SPR TP/oneM2M/CSE/GEN/DEL/002_ABS
	CE/GEN/00002	CE/GEN/00002/00001	Support blocking request	
REG	CE/REG/00001	CE/REG/00001/00001	Support <CSEBase> resource with attributes multiplicity equals 1[1].	TP/oneM2M/CSE/REG/CRE/021 TP/oneM2M/CSE/REG/RET/001 TP/oneM2M/CSE/REG/RET/008 TP/oneM2M/CSE/REG/UPD/001 TP/oneM2M/CSE/REG/DEL/001
		CE/REG/00001/00002	Support the cseType attribute of <CSEBase> resource	TP/oneM2M/CSE/REG/RET/002_CST TP/oneM2M/CSE/REG/RET/005
		CE/REG/00001/00003	Support the nodeLink attribute of <CSEBase> resource. This is dependent on the feature set for <node> resource.	TP/oneM2M/CSE/REG/RET/002_NL
	CE/REG/00002	CE/REG/00002/00001	Support <AE> resource with attributes multiplicity equals 1[1]	TP/oneM2M/CSE/REG/RET/003 TP/oneM2M/CSE/REG/DEL/003 TP/oneM2M/CSE/DMR/RET/013_AE TP/oneM2M/CSE/DMR/UPD/016_AE/ET TP/oneM2M/CSE/DMR/UPD/016_AE/RR
		CE/REG/00002/00002	AE registration/de-registration without a pre-assigned AE-ID in the registration request and where the AE-ID Stem is configured with 'C'.	TP/oneM2M/CSE/REG/CRE/004 TP/oneM2M/CSE/REG/CRE/005 TP/oneM2M/CSE/REG/CRE/006 TP/oneM2M/CSE/REG/CRE/007 TP/oneM2M/CSE/REG/CRE/008 TP/oneM2M/CSE/REG/CRE/010 TP/oneM2M/CSE/REG/CRE/011 TP/oneM2M/CSE/REG/CRE/016
		CE/REG/00002/00003	AE registration/de-registration without a pre-assigned AE-ID in the registration request	TP/oneM2M/CSE/REG/CRE/017_API TP/oneM2M/CSE/REG/CRE/017_RR TP/oneM2M/CSE/REG/CRE/022 TP/oneM2M/CSE/REG/CRE/023

Function	Feature Set	Feature	Remark	
			and where the AE-ID Stem is configured with 'S'.	
		CE/REG/00002/00004	AE registration/de-registration without a pre-assigned AE-ID in the registration request and where no AE-ID Stem is included.	
		CE/REG/00002/00005	AE registration/de-registration without a pre-assigned AE-ID in the registration request and where the AE-ID Stem is configured with 'S' and where announcement to an IN-CSE is needed to get an AE-ID assigned	
		CE/DIS/00001/00006	Support the <i>labels</i> attribute of <AE> resource	TP/oneM2M/CSE/REG/CRE/012_AE/LBL TP/oneM2M/CSE/REG/RET/004_LBL TP/oneM2M/CSE/DMR/UPD/015_AE/LBL
		CE/REG/00002/00007	Support the <i>applicationName</i> attribute of <AE> resource	TP/oneM2M/CSE/REG/CRE/012_AE/APN TP/oneM2M/CSE/REG/RET/004_APN TP/oneM2M/CSE/DMR/UPD/015_AE/APN
		CE/REG/00002/00008	Support the <i>pointOfAccess</i> attribute of <AE> resource	TP/oneM2M/CSE/REG/CRE/012_AE/POA TP/oneM2M/CSE/REG/RET/004_POA TP/oneM2M/CSE/DMR/UPD/015_AE/POA
		CE/REG/00002/00009	AE registration with pre-assigned AE-ID	TP/oneM2M/CSE/REG/CRE/002 TP/oneM2M/CSE/REG/CRE/003 TP/oneM2M/CSE/REG/CRE/020
	CE/REG/00004	CE/REG/00004/00001	Support <remoteCSE> resource with attributes multiplicity equals 1[1]	TP/oneM2M/CSE/REG/CRE/018 TP/oneM2M/CSE/REG/CRE/019 TP/oneM2M/CSE/REG/CRE/025 TP/oneM2M/CSE/REG/RET/006 TP/oneM2M/CSE/REG/RET/010 TP/oneM2M/CSE/REG/DEL/002 TP/oneM2M/CSE/DMR/UPD/016_CSR/ET TP/oneM2M/CSE/DMR/UPD/016_CSR/RR
		CE/DIS/00001/00006	Support the <i>labels</i> attribute of <remoteCSE> resource	TP/oneM2M/CSE/REG/CRE/013_LBL TP/oneM2M/CSE/REG/CRE/028_LBL TP/oneM2M/CSE/REG/RET/007_LBL TP/oneM2M/CSE/REG/UPD/002_LBL
		CE/REG/00004/00002	Support the <i>cseType</i> attribute of <remoteCSE> resource	TP/oneM2M/CSE/REG/CRE/013_CST TP/oneM2M/CSE/REG/CRE/027 TP/oneM2M/CSE/REG/RET/007_CST
		CE/REG/00004/00003	Support the <i>pointOfAccess</i> attribute of <remoteCSE> resource	TP/oneM2M/CSE/REG/CRE/013_POA TP/oneM2M/CSE/REG/CRE/028_POA TP/oneM2M/CSE/REG/RET/007_POA TP/oneM2M/CSE/REG/UPD/002_POA
		CE/REG/00004/00004	Support the <i>nodeLink</i> attribute of <remoteCSE> resource	TP/oneM2M/CSE/REG/CRE/013_NL TP/oneM2M/CSE/REG/CRE/028_NL TP/oneM2M/CSE/REG/RET/007_NL TP/oneM2M/CSE/REG/UPD/002_NL
	CE/REG/00005	CE/REG/00005/00001	The Creation with <remoteCSE> resource for CSE	TP/oneM2M/CSE/REG/CRE/024 TP/oneM2M/CSE/DMR/RET/013_CSR

Function	Feature Set	Feature	Remark	
			registration with mandatory attributes[2] for Create and locally create <remoteCSE> that represents the Regstree CSE	
		CE/REG/00005/00001	Create the <remoteCSE> with <i>resourceName</i> attribute	TP/oneM2M/CSE/REG/CRE/026_RN
		CE/REG/00005/00001	Create the <remoteCSE> with <i>expirationTime</i> attribute	TP/oneM2M/CSE/REG/CRE/026_ET
		CE/REG/00005/00004	Create the <remoteCSE> with <i>labels</i> attribute	TP/oneM2M/CSE/REG/CRE/026_LBL
		CE/REG/00005/00002	Create the <remoteCSE> with <i>cseType</i> attribute	TP/oneM2M/CSE/REG/CRE/026_CST
		CE/REG/00005/00003	Create the <remoteCSE> with <i>pointOfAccess</i> attribute	TP/oneM2M/CSE/REG/CRE/026_POA
		CE/REG/00005/00005	Create the <remoteCSE> with <i>nodeLink</i> attribute	TP/oneM2M/CSE/REG/CRE/026_NL
		CE/DIS/00001/00006	Update the <remoteCSE> with <i>labels</i>	TP/oneM2M/CSE/REG/UPD/003_LBL TP/oneM2M/CSE/DMR/UPD/015_CSR/LBL
		CE/REG/00005/00001	Update the <remoteCSE> with <i>expirationTime</i>	TP/oneM2M/CSE/REG/UPD/003_ET
		CE/REG/00005/00006	Update the <remoteCSE> with <i>pointOfAccess</i> attribute	TP/oneM2M/CSE/REG/UPD/003_POA TP/oneM2M/CSE/DMR/UPD/015_CSR/POA
		CE/REG/00005/00007	Update the <remoteCSE> with <i>requestReachability</i>	TP/oneM2M/CSE/REG/UPD/003_RR
		CE/REG/00005/00008	Update the <remoteCSE> with <i>nodeLink</i> attribute	TP/oneM2M/CSE/REG/UPD/003_NL TP/oneM2M/CSE/DMR/UPD/015_CSR/NL
		CE/REG/00005/00001	Delete the <remoteCSE> resource on the Registrar, also delete the <remoteCSE> resource on the Regstree	TP/oneM2M/CSE/REG/DEL/004
		CE/REG/00005/00009	Retrieve the <remoteCSE> resource	TP/oneM2M/CSE/REG/RET/009
DMR	CE/DMR/00001	CE/DMR/00001/00001	Support <container> resource with attributes multiplicity equals 1[1]	TP/oneM2M/CSE/DMR/CRE/001_CNT/CB TP/oneM2M/CSE/DMR/CRE/001_CNT/AE TP/oneM2M/CSE/DMR/CRE/001_CNT/CNT TP/oneM2M/CSE/DMR/CRE/002_CNT TP/oneM2M/CSE/DMR/CRE/003_CNT TP/oneM2M/CSE/DMR/CRE/007 TP/oneM2M/CSE/DMR/CRE/008 TP/oneM2M/CSE/DMR/CRE/009 TP/oneM2M/CSE/DMR/CRE/010

Function	Feature Set	Feature	Remark	
				TP/oneM2M/CSE/DMR/CRE/011 TP/oneM2M/CSE/DMR/CRE/014_CNT_CIN TP/oneM2M/CSE/DMR/RET/001_CNT TP/oneM2M/CSE/DMR/RET/013_CNT TP/oneM2M/CSE/DMR/UPD/001_CNT/LBL TP/oneM2M/CSE/DMR/UPD/002_CNT/LBL TP/oneM2M/CSE/DMR/UPD/003_CNT/LBL TP/oneM2M/CSE/DMR/UPD/004_CNT/ET/MNI/LBL TP/oneM2M/CSE/DMR/UPD/005_CNT/EXC TP/oneM2M/CSE/DMR/UPD/007_CNT/CT TP/oneM2M/CSE/DMR/UPD/008_CNT/ET TP/oneM2M/CSE/DMR/UPD/009_CNT/LBL TP/oneM2M/CSE/DMR/UPD/010 TP/oneM2M/CSE/DMR/UPD/016_CNT/ET TP/oneM2M/CSE/DMR/DEL/001_CNT TP/oneM2M/CSE/DMR/DEL/005 TP/oneM2M/CSE/DMR/DEL/006
		CE/DIS/00001/00006	Support the <i>labels</i> attribute of <container> resource	TP/oneM2M/CSE/DMR/CRE/012_CNT/LBL TP/oneM2M/CSE/DMR/UPD/014_CNT/LBL TP/oneM2M/CSE/DMR/UPD/015_CNT/LBL
		CE/DMR/00001/00001	Support the <i>creator</i> attribute of <container> resource	TP/oneM2M/CSE/DMR/CRE/012_CNT/CR
		CE/DMR/00001/00002	Support the <i>maxNrOfInstances</i> attribute of <container> resource	TP/oneM2M/CSE/DMR/CRE/005_MNI TP/oneM2M/CSE/DMR/CRE/006_MNI TP/oneM2M/CSE/DMR/UPD/014_CNT/MNI TP/oneM2M/CSE/DMR/UPD/015_CNT/MNI
		CE/DMR/00001/00003	Support the <i>maxByteSize</i> attribute of <container> resource	TP/oneM2M/CSE/DMR/CRE/005_MBS TP/oneM2M/CSE/DMR/CRE/006_MBS TP/oneM2M/CSE/DMR/CRE/012_CNT/MBS TP/oneM2M/CSE/DMR/CRE/013 TP/oneM2M/CSE/DMR/UPD/014_CNT/MBS TP/oneM2M/CSE/DMR/UPD/015_CNT/MBS
		CE/DMR/00001/00004	Support the <i>maxInstanceAge</i> attribute of <container> resource	TP/oneM2M/CSE/DMR/CRE/005_MIA TP/oneM2M/CSE/DMR/CRE/006_MIA TP/oneM2M/CSE/DMR/UPD/014_CNT/MIA TP/oneM2M/CSE/DMR/UPD/015_CNT/MIA
	CE/DMR/00002	CE/DMR/00002/00001	Support <contentInstance> resource with attributes multiplicity equals 1[1]	TP/oneM2M/CSE/DMR/CRE/001_CIN/CNT TP/oneM2M/CSE/DMR/RET/001_CIN TP/oneM2M/CSE/DMR/UPD/BV/011 TP/oneM2M/CSE/DMR/DEL/001_CIN
		CE/DIS/00001/00006	Support the <i>labels</i> attribute of <contentInstance> resource	TP/oneM2M/CSE/DMR/CRE/012_CIN/LBL
		CE/DMR/00002/00001	Support the <i>creator</i> attribute of <contentInstance> resource	TP/oneM2M/CSE/DMR/CRE/012_CIN/CR
		CE/DMR/00002/00002	Support the <i>contentInfo</i> attribute of <contentInstance> resource	TP/oneM2M/CSE/DMR/CRE/012_CIN/CNF
		CE/DMR/00002/00004	Retrieve and Delete of latest <contentInstance> resource by <latest> virtual	TP/oneM2M/CSE/DMR/RET/012 TP/oneM2M/CSE/DMR/UPD/012 TP/oneM2M/CSE/DMR/DEL/007

Function	Feature Set	Feature	Remark	
			resource	
		CE/DMR/00002/00057	Retrieve and Delete of oldest <contentInstance> resource by <oldest> virtual resource	TP/oneM2M/CSE/DMR/RET/010 TP/oneM2M/CSE/DMR/UPD/013 TP/oneM2M/CSE/DMR/DEL/009
SUB	CE/SUB/00001	CE/SUB/00001/00001	The Support of <subscription> resource with attributes multiplicity equals 1[1]	TP/oneM2M/CSE/DMR/CRE/001_SUB/CB TP/oneM2M/CSE/DMR/CRE/001_SUB/AE TP/oneM2M/CSE/DMR/CRE/001_SUB/CNT TP/oneM2M/CSE/DMR/CRE/001_SUB/ACP TP/oneM2M/CSE/DMR/CRE/001_SUB/CSR TP/oneM2M/CSE/DMR/CRE/001_SUB/AEA TP/oneM2M/CSE/DMR/CRE/002_SUB TP/oneM2M/CSE/DMR/CRE/003_SUB TP/oneM2M/CSE/DMR/RET/001_SUB TP/oneM2M/CSE/DMR/RET/013_SUB TP/oneM2M/CSE/DMR/UPD/001_SUB/LBL TP/oneM2M/CSE/DMR/UPD/002_SUB/LBL TP/oneM2M/CSE/DMR/UPD/003_SUB/LBL TP/oneM2M/CSE/DMR/UPD/004_SUB/ET/LBL/EXC TP/oneM2M/CSE/DMR/UPD/005_SUB/MNI TP/oneM2M/CSE/DMR/UPD/007_SUB/CT TP/oneM2M/CSE/DMR/UPD/008_SUB/ET TP/oneM2M/CSE/DMR/UPD/009_SUB/LBL TP/oneM2M/CSE/DMR/UPD/016_SUB/ET TP/oneM2M/CSE/DMR/UPD/016_SUB/NU TP/oneM2M/CSE/DMR/UPD/016_SUB/NCT TP/oneM2M/CSE/DMR/DEL/001_SUB
		CE/DIS/00001/00006	Support the <i>labels</i> attribute of <subscription> resource.	TP/oneM2M/CSE/DMR/CRE/012_SUB/LBL TP/oneM2M/CSE/DMR/UPD/014_SUB/LBL TP/oneM2M/CSE/DMR/UPD/015_SUB/LBL
		CE/SUB/00001/00001	Support the <i>creator</i> attribute of <subscription> resource	TP/oneM2M/CSE/DMR/CRE/012_SUB/CR
		CE/SUB/00001/00001	Support the <i>subscriberURI</i> attribute of <subscription> resource	TP/oneM2M/CSE/DMR/CRE/012_SUB/SU
	CE/SUB/00004	CE/SUB/00004/00001	Notify the address indicated in <i>notificationURI</i> with notification elements multiplicity equals 1[2]	TP/oneM2M/CSE/SUB/CRE/001_SUB TP/oneM2M/CSE/SUB/CRE/001_CIN TP/oneM2M/CSE/SUB/CRE/003 TP/oneM2M/CSE/SUB/CRE/005
		CE/SUB/00004/00002	Notify with notificationEvent/representation set in the notification	TP/oneM2M/CSE/SUB/CRE/005 TP/oneM2M/CSE/SUB/UPD/001 TP/oneM2M/CSE/SUB/DEL/001
		CE/SUB/00004/00003	Notify with creator set in the notification	TP/oneM2M/CSE/SUB/CRE/004
SEC	CE/SEC/00001	CE/SEC/00001/00001	Support <accessControlPolicy> resource with attributes multiplicity equals 1[1]	TP/oneM2M/CSE/DMR/CRE/001_ACP/CB TP/oneM2M/CSE/DMR/CRE/001_ACP/AE TP/oneM2M/CSE/DMR/CRE/002_ACP TP/oneM2M/CSE/DMR/CRE/003_ACP TP/oneM2M/CSE/DMR/RET/001_ACP TP/oneM2M/CSE/DMR/RET/013_ACP TP/oneM2M/CSE/DMR/UPD/001_ACP/LBL TP/oneM2M/CSE/DMR/UPD/002_ACP/LBL TP/oneM2M/CSE/DMR/UPD/003_ACP/LBL



Function	Feature Set	Feature	Remark	
				TP/oneM2M/CSE/DMR/UPD/004_ACP/PV/AT/LBL TP/oneM2M/CSE/DMR/UPD/005_ACP/EXC TP/oneM2M/CSE/DMR/UPD/007_ACP/CT TP/oneM2M/CSE/DMR/UPD/008_ACP/ET TP/oneM2M/CSE/DMR/UPD/009_ACP/LBL TP/oneM2M/CSE/DMR/UPD/016_ACP/ET TP/oneM2M/CSE/DMR/UPD/016_ACP/PV TP/oneM2M/CSE/DMR/UPD/016_ACP/PVS TP/oneM2M/CSE/DMR/DEL/001_ACP TP/oneM2M/CSE/SEC/ACP/CRE/001 TP/oneM2M/CSE/SEC/ACP/CRE/002 TP/oneM2M/CSE/SEC/ACP/CRE/003 TP/oneM2M/CSE/SEC/ACP/CRE/004
		CE/DIS/00001/00006	Support the <i>labels</i> attribute of <accessControlPolicy> resource	TP/oneM2M/CSE/DMR/CRE/012_ACP/LBL TP/oneM2M/CSE/DMR/UPD/014_ACP/LBL TP/oneM2M/CSE/DMR/UPD/015_ACP/LBL
	CE/SEC/00002	CE/SEC/00002/00001	Support <i>accessControlPolicy/Ds</i> attribute for <resource> that the Implementation supports.	TP/oneM2M/CSE/DMR/CRE/012_SUB/ACPI TP/oneM2M/CSE/DMR/CRE/012_CNT/ACPI TP/oneM2M/CSE/DMR/UPD/014_CNT/ACPI TP/oneM2M/CSE/DMR/UPD/015_AE/ACPI TP/oneM2M/CSE/DMR/UPD/015_CNT/ACPI TP/oneM2M/CSE/DMR/UPD/015_SUB/ACPI TP/oneM2M/CSE/SEC/ACP/UPD/001 TP/oneM2M/CSE/SEC/ACP/UPD/002
		CE/SEC/00002/00002	Support access control decision and enforcement making on the Hosting CSE	TP/oneM2M/CSE/DMR/CRE/004_CNT TP/oneM2M/CSE/DMR/CRE/004_ACP TP/oneM2M/CSE/DMR/CRE/004_SUB TP/oneM2M/CSE/DMR/RET/003 TP/oneM2M/CSE/DMR/RET/014_ACP TP/oneM2M/CSE/DMR/RET/014_AE TP/oneM2M/CSE/DMR/RET/014_CNT TP/oneM2M/CSE/DMR/RET/014_CSR TP/oneM2M/CSE/DMR/RET/014_SUB TP/oneM2M/CSE/DMR/UPD/006_CNT/LBL TP/oneM2M/CSE/DMR/UPD/006_ACP/LBL TP/oneM2M/CSE/DMR/UPD/006_SUB/LBL TP/oneM2M/CSE/DMR/DEL/002_CNT TP/oneM2M/CSE/DMR/DEL/002_ACP TP/oneM2M/CSE/DMR/DEL/002_SUB TP/oneM2M/CSE/SUB/CRE/002 TP/oneM2M/CSE/SEC/ACP/001_CRE TP/oneM2M/CSE/SEC/ACP/001_UPD TP/oneM2M/CSE/SEC/ACP/001_RET TP/oneM2M/CSE/SEC/ACP/001_DEL TP/oneM2M/CSE/SEC/ACP/002_CRE TP/oneM2M/CSE/SEC/ACP/002_UPD TP/oneM2M/CSE/SEC/ACP/002_RET TP/oneM2M/CSE/SEC/ACP/002_DEL TP/oneM2M/CSE/SEC/ACP/003_CRE TP/oneM2M/CSE/SEC/ACP/003_UPD TP/oneM2M/CSE/SEC/ACP/003_RET TP/oneM2M/CSE/SEC/ACP/003_DEL TP/oneM2M/CSE/SEC/ACP/004_CRE TP/oneM2M/CSE/SEC/ACP/004_UPD TP/oneM2M/CSE/SEC/ACP/004_RET TP/oneM2M/CSE/SEC/ACP/004_DEL TP/oneM2M/CSE/SEC/ACP/005_CRE TP/oneM2M/CSE/SEC/ACP/005_UPD TP/oneM2M/CSE/SEC/ACP/005_RET TP/oneM2M/CSE/SEC/ACP/005_DEL TP/oneM2M/CSE/SEC/ACP/006_CRE TP/oneM2M/CSE/SEC/ACP/006_UPD TP/oneM2M/CSE/SEC/ACP/006_RET TP/oneM2M/CSE/SEC/ACP/006_DEL

Function	Feature Set	Feature	Remark	
				TP/oneM2M/CSE/SEC/ACP/007_CRE TP/oneM2M/CSE/SEC/ACP/007_UPD TP/oneM2M/CSE/SEC/ACP/007_RET TP/oneM2M/CSE/SEC/ACP/007_DEL TP/oneM2M/CSE/SEC/ACP/008_CRE TP/oneM2M/CSE/SEC/ACP/008_UPD TP/oneM2M/CSE/SEC/ACP/008_RET TP/oneM2M/CSE/SEC/ACP/008_DEL TP/oneM2M/CSE/SEC/ACP/009_CRE TP/oneM2M/CSE/SEC/ACP/009_UPD TP/oneM2M/CSE/SEC/ACP/009_RET TP/oneM2M/CSE/SEC/ACP/009_DEL TP/oneM2M/CSE/SEC/ACP/010_CRE TP/oneM2M/CSE/SEC/ACP/010_UPD TP/oneM2M/CSE/SEC/ACP/010_RET TP/oneM2M/CSE/SEC/ACP/010_DEL TP/oneM2M/CSE/SEC/ACP/011_CRE TP/oneM2M/CSE/SEC/ACP/011_UPD TP/oneM2M/CSE/SEC/ACP/011_RET TP/oneM2M/CSE/SEC/ACP/011_DEL TP/oneM2M/CSE/SEC/ACP/012_CRE TP/oneM2M/CSE/SEC/ACP/012_UPD TP/oneM2M/CSE/SEC/ACP/012_RET TP/oneM2M/CSE/SEC/ACP/012_DEL

## 5.8.4 Extendable feature sets

**Table 5.8.4-1: Extendable feature set for gateway as MN**

Function	Feature Set	Feature	Remark	
DIS	CE/DIS/00001	CE/DIS/00001/00001	Support the Discovery request with filterUsage equals to "Discovery"	TP/oneM2M/CSE/DIS/001 TP/oneM2M/CSE/DIS/002 TP/oneM2M/CSE/DIS/003 TP/oneM2M/CSE/DIS/004 TP/oneM2M/CSE/DIS/005 TP/oneM2M/CSE/DIS/006
		CE/DIS/00001/00002	Support discovery with filterCriteria ( <i>createdBefore, createdAfter, modifiedSince, unmodifiedSince, stateTagSmaller, stateTagBigger, expireBefore, expireAfter, labels, resourceType, sizeAbove, sizeBelow, contentType, limit, attribute</i> )	TP/oneM2M/CSE/DIS/007 TP/oneM2M/CSE/DIS/008 TP/oneM2M/CSE/DIS/009
		CE/DIS/00001/00003	Support discovery with filterCriteria ( <i>level, offset</i> )	
		CE/DIS/00001/00004	Support discovery with content filter ( <i>contentFilterSyntax, contentFilterQuery of filterCriteria</i> )	
		CE/DIS/00001/00005	Support discovery with filterCriteria ( <i>filterOperation</i> )	
GMG	CE/GMG/00001	CE/GMG/00001/00001	Support the <group> resource with attributes multiplicity equals 1[1]	TP/oneM2M/CSE/DMR/CRE/001_GRP/CB TP/oneM2M/CSE/DMR/CRE/001_GRP/AE TP/oneM2M/CSE/DMR/CRE/002_GRP TP/oneM2M/CSE/DMR/CRE/003_GRP TP/oneM2M/CSE/DMR/RET/001_GRP TP/oneM2M/CSE/DMR/RET/013_GRP TP/oneM2M/CSE/DMR/UPD/001_GRP/LBL TP/oneM2M/CSE/DMR/UPD/002_GRP/LBL TP/oneM2M/CSE/DMR/UPD/003_GRP/LBL TP/oneM2M/CSE/DMR/UPD/004_GRP/ET/GN/LBL TP/oneM2M/CSE/DMR/UPD/005_GRP/EXC TP/oneM2M/CSE/DMR/UPD/006_GRP/LBL TP/oneM2M/CSE/DMR/UPD/007_GRP/CT TP/oneM2M/CSE/DMR/UPD/008_GRP/ET TP/oneM2M/CSE/DMR/UPD/009_GRP/LBL TP/oneM2M/CSE/DMR/UPD/016_GRP/ET TP/oneM2M/CSE/DMR/UPD/016_GRP/MNM TP/oneM2M/CSE/DMR/UPD/016_GRP/MID TP/oneM2M/CSE/DMR/DEL/001_GRP TP/oneM2M/CSE/DMR/DEL/002_GRP

Function	Feature Set	Feature	Remark	
				TP/oneM2M/CSE/GMG/CRE/001 TP/oneM2M/CSE/GMG/CRE/003 TP/oneM2M/CSE/GMG/UPD/002 TP/oneM2M/CSE/GMG/UPD/007 TP/oneM2M/CSE/GMG/UPD/008
		CE/DIS/00001/00006	Support the <i>labels</i> attribute of <group> resource	TP/oneM2M/CSE/DMR/UPD/015_GRP/LBL
		CE/GMG/00001/00001	Support the <i>creator</i> attribute of <group> resource	
		CE/GMG/00001/00001	Support the <i>groupName</i> attribute of <group> resource	TP/oneM2M/CSE/DMR/UPD/015_GRP/GN
	CE/GMG/00002	CE/GMG/00002/00001	Support the <i>memberTypeValidated</i> attribute of <group> resource	
		CE/GMG/00002/00002	Support the validation of member's resource type and set the <i>memberTypeValidated</i> as well as the procedure to update the group according to <i>consistencyStrategy</i>	TP/oneM2M/CSE/GMG/CRE/002 TP/oneM2M/CSE/GMG/CRE/004 TP/oneM2M/CSE/GMG/CRE/005 TP/oneM2M/CSE/GMG/CRE/006 TP/oneM2M/CSE/GMG/CRE/007 TP/oneM2M/CSE/GMG/UPD/001 TP/oneM2M/CSE/GMG/UPD/003 TP/oneM2M/CSE/GMG/UPD/004 TP/oneM2M/CSE/GMG/UPD/005 TP/oneM2M/CSE/GMG/UPD/006 TP/oneM2M/CSE/GMG/UPD/009 TP/oneM2M/CSE/GMG/UPD/010
		CE/GMG/00002/00003	Support the <i>consistencyStrategy</i> attribute of <group> resource	
	CE/GMG/00003	CE/GMG/00003/00001	Fan out of request to all members and aggregate member responses	TP/oneM2M/CSE/GMG/RET/001 TP/oneM2M/CSE/GMG/001_CRE TP/oneM2M/CSE/GMG/001_RET TP/oneM2M/CSE/GMG/001_UPD TP/oneM2M/CSE/GMG/001_DEL TP/oneM2M/CSE/GMG/002_CRE TP/oneM2M/CSE/GMG/002_RET TP/oneM2M/CSE/GMG/002_UPD TP/oneM2M/CSE/GMG/002_DEL TP/oneM2M/CSE/GMG/003_CRE TP/oneM2M/CSE/GMG/003_RET TP/oneM2M/CSE/GMG/003_UPD TP/oneM2M/CSE/GMG/003_DEL TP/oneM2M/CSE/GMG/004_CRE TP/oneM2M/CSE/GMG/004_RET TP/oneM2M/CSE/GMG/004_UPD TP/oneM2M/CSE/GMG/004_DEL TP/oneM2M/CSE/GMG/005_CRE

Function	Feature Set	Feature	Remark
			TP/oneM2M/CSE/GMG/005_RET TP/oneM2M/CSE/GMG/005_UPD TP/oneM2M/CSE/GMG/005_DEL TP/oneM2M/CSE/GMG/006_CRE TP/oneM2M/CSE/GMG/006_RET TP/oneM2M/CSE/GMG/006_UPD TP/oneM2M/CSE/GMG/006_DEL
		CE/GMG/00003/0000 2	Create sub group resource in case multiple members belong to same member CSE
		CE/GMG/00003/0000 3	Create <subscription> resource via group without aggregating notifications
		CE/GMG/00003/0000 4	Create <subscription> resource via group and aggregate notifications
		CE/GMG/00003/0000 5	Support the membersAccessControlPolicyIDs attribute of <group> resource

# Annex A (normative): Mapping of feature to test purposes

Table A-1: Mapping of feature to Test Purposes

Feature ID	Feature Catalogue	Description	Mapped Test Purposes
CE/GEN/00001/00001		Support Unstructured resource identifier	
CE/GEN/00001/00002		Support Structured resource identifier	
CE/GEN/00002/00001		Support blocking request	
CE/REG/00001/00001		Support <CSEBase> resource.	
CE/REG/00001/00002		Support the <i>cseType</i> attribute of <CSEBase>	
CE/REG/00001/00003		Support the <i>nodeLink</i> attribute of <CSEBase>	
CE/REG/00002/00001		Support <AE> resource	
CE/REG/00002/00002		AE registration without pre-assigned AE-ID in the registration request. Possible cases are: <ul style="list-style-type: none"> <li>- The request includes AE-ID Stem as 'C'</li> <li>- The request includes AE-ID Stem as 'S'</li> <li>- The request does not include AE-ID Stem</li> </ul>	TP/oneM2M/CSE/REG/BV/001 TP/oneM2M/CSE/REG/BV/002 TP/oneM2M/CSE/REG/BV/003 TP/oneM2M/CSE/REG/BV/004 TP/oneM2M/CSE/REG/BV/005 TP/oneM2M/CSE/REG/BV/007 TP/oneM2M/CSE/REG/BV/008 TP/oneM2M/CSE/REG/BV/009 TP/oneM2M/CSE/REG/BV/010
CE/REG/00002/00003		Support the <i>labels</i> attribute of <AE> resource	
CE/REG/00002/00004		Support the <i>applicationName</i> attribute of <AE> resource	
CE/REG/00002/00005		Support the <i>pointOfAccess</i> attribute of <AE> resource	
CE/REG/00002/00006		AE registration with pre-assigned AE-ID	
CE/REG/00004/00001		Support <remoteCSE> resource with attributes multiplicity equals 1[1]	
CE/REG/00004/00002		Support the <i>labels</i> attribute of <remoteCSE> resource	
CE/REG/00004/00003		Support the <i>cseType</i> attribute of <remoteCSE> resource	
CE/REG/00004/00004		Support the <i>pointOfAccess</i> attribute of <remoteCSE> resource	
CE/REG/00004/00005		Support the <i>nodeLink</i> attribute of <remoteCSE> resource	
CE/DMR/00001/00001		Support <container> resource with attributes multiplicity equals 1[1]	TP/oneM2M/CSE/DMR/CRE/BV/001_01 TP/oneM2M/CSE/DMR/CRE/BV/002_01 TP/oneM2M/CSE/DMR/CRE/BV/003_01 TP/oneM2M/CSE/DMR/CRE/BV/004_01 TP/oneM2M/CSE/DMR/CRE/BV/005_0X TP/oneM2M/CSE/DMR/CRE/BV/006_0X TP/oneM2M/CSE/DMR/CRE/BV/009 TP/oneM2M/CSE/DMR/CRE/BV/012_01 TP/oneM2M/CSE/DMR/CRE/BV/013_01 TP/oneM2M/CSE/DMR/CRE/BV/014_01 TP/oneM2M/CSE/DMR/CRE/BV/015_01-07 TP/oneM2M/CSE/DMR/CRE/BV/016_02 TP/oneM2M/CSE/DMR/CRE/BV/017_02 TP/oneM2M/CSE/DMR/RET/BV/001_01 TP/oneM2M/CSE/DMR/RET/BO/002

Feature ID	Feature Catalogue	Description	Mapped Test Purposes
			TP/oneM2M/CSE/DMR/RET/BO/003_01 TP/oneM2M/CSE/DMR/RET/BV/004_01 TP/oneM2M/CSE/DMR/RET/BV/005_01 TP/oneM2M/CSE/DMR/RET/BV/006_01 TP/oneM2M/CSE/DMR/RET/BO/007_01 TP/oneM2M/CSE/DMR/RET/BO/008_01 TP/oneM2M/CSE/DMR/RET/BV/013_03 TP/oneM2M/CSE/DMR/RET/BO/014_03 TP/oneM2M/CSE/DMR/RET/BV/015_03 TP/oneM2M/CSE/DMR/RET/BV/016_03 TP/oneM2M/CSE/DMR/RET/BV/017_03 TP/oneM2M/CSE/DMR/RET/BV/018_03 TP/oneM2M/CSE/DMR/RET/BO/019_03 TP/oneM2M/CSE/DMR/UPD/BI/005_01 TP/oneM2M/CSE/DMR/UPD/BO/006_01 TP/oneM2M/CSE/DMR/UPD/BO/007_01 TP/oneM2M/CSE/DMR/UPD/BO/008_01 TP/oneM2M/CSE/DMR/UPD/BO/009_01 TP/oneM2M/CSE/DMR/UPD/BV/010 TP/oneM2M/CSE/DMR/UPD/BV/014_01-07 TP/oneM2M/CSE/DMR/UPD/BV/015_02 TP/oneM2M/CSE/DMR/UPD/BV/016_01 TP/oneM2M/CSE/DMR/DEL/BV/001_01 TP/oneM2M/CSE/DMR/DEL/BV/002_01 TP/oneM2M/CSE/DMR/DEL/BV/003 TP/oneM2M/CSE/DMR/DEL/BV/004_01 TP/oneM2M/CSE/DMR/DEL/BV/005 TP/oneM2M/CSE/DMR/DEL/BV/006 TP/oneM2M/CSE/DMR/BV/001_01 TP/oneM2M/CSE/DMR/BV/001_02 TP/oneM2M/CSE/DMR/BV/001_03 TP/oneM2M/CSE/DMR/BV/002_01 TP/oneM2M/CSE/DMR/BV/003_01 TP/oneM2M/CSE/DMR/BV/004_01 TP/oneM2M/CSE/DMR/BV/005_01
CE/DMR/00001/00002		Support the <i>labels</i> attribute of <container> resource	TP/oneM2M/CSE/DMR/CRE/BV/015_03 TP/oneM2M/CSE/DMR/UPD/BV/014_03 TP/oneM2M/CSE/DMR/UPD/BV/001_01 TP/oneM2M/CSE/DMR/UPD/BV/002_01 TP/oneM2M/CSE/DMR/UPD/BV/003_01 TP/oneM2M/CSE/DMR/UPD/BV/004_01 TP/oneM2M/CSE/DMR/UPD/BO/009
CE/DMR/00001/00003		Support the <i>creator</i> attribute of <container> resource	
CE/DMR/00001/00004		Support the <i>maxNrOfInstances</i> attribute of <container> resource	TP/oneM2M/CSE/DMR/CRE/BV/015_04 TP/oneM2M/CSE/DMR/CRE/BV/014_04
CE/DMR/00001/00005		Support the <i>maxByteSize</i> attribute of <container> resource	TP/oneM2M/CSE/DMR/CRE/BV/015_05 TP/oneM2M/CSE/DMR/CRE/BV/014_05
CE/DMR/00001/00006		Support the <i>maxInstanceAge</i> attribute of <container> resource	TP/oneM2M/CSE/DMR/CRE/BV/015_06 TP/oneM2M/CSE/DMR/CRE/BV/014_06
CE/DMR/00002/00001		Support <contentInstance> resource with attributes multiplicity equals 1[1]	TP/oneM2M/CSE/DMR/UPD/BV/011 TP/oneM2M/CSE/DMR/CRE/BV/007 TP/oneM2M/CSE/DMR/CRE/BV/008 TP/oneM2M/CSE/DMR/CRE/BI/010 TP/oneM2M/CSE/DMR/CRE/BI/011 TP/oneM2M/CSE/DMR/CRE/BV/015_08-12 TP/oneM2M/CSE/DMR/CRE/BV/016_03 TP/oneM2M/CSE/DMR/CRE/BV/017_03 TP/oneM2M/CSE/DMR/UPD/BV/011 TP/oneM2M/CSE/DMR/UPD/BI/012 TP/oneM2M/CSE/DMR/UPD/BI/013
CE/DMR/00002/00002		Support the <i>labels</i> attribute of <contentInstance> resource	TP/oneM2M/CSE/DMR/CRE/BV/015_09
CE/DMR/00002/00003		Support the <i>creator</i> attribute of <contentInstance> resource	TP/oneM2M/CSE/DMR/CRE/BV/015_10
CE/DMR/00002/00004		Support the <i>contentInfo</i> attribute	TP/oneM2M/CSE/DMR/CRE/BV/015_11

Feature ID	Feature Catalogue	Description	Mapped Test Purposes
		of <contentInstance> resource	
CE/DMR/00002/00005		Support the <i>contentRef</i> attribute of <contentInstance> resource	TP/oneM2M/CSE/DMR/CRE/BV/015_12
CE/DMR/00002/00006		Retrieve and Delete of latest <contentInstance> resource by <latest> virtual resource	TP/oneM2M/CSE/DMR/RET/BV/012 TP/oneM2M/CSE/DMR/RET/BO/009 TP/oneM2M/CSE/DMR/UPD/BI/012 TP/oneM2M/CSE/DMR/DEL/BV/007 TP/oneM2M/CSE/DMR/DEL/BO/008
CE/DMR/00002/00007		Retrieve and Delete of oldest <contentInstance> resource by <oldest> virtual resource	TP/oneM2M/CSE/DMR/RET/BV/010 TP/oneM2M/CSE/DMR/RET/BO/011 TP/oneM2M/CSE/DMR/UPD/BI/013 TP/oneM2M/CSE/DMR/DEL/BV/009 TP/oneM2M/CSE/DMR/DEL/BO/010
CE/SUB/00001/00001		The Support of <subscription> resource with attributes multiplicity equals 1[1]	TP/oneM2M/CSE/DMR/CRE/BV/001_06 TP/oneM2M/CSE/DMR/CRE/BV/002_06 TP/oneM2M/CSE/DMR/CRE/BV/003_06 TP/oneM2M/CSE/DMR/CRE/BV/004_06 TP/oneM2M/CSE/DMR/CRE/BV/012_06 TP/oneM2M/CSE/DMR/CRE/BV/013_06 TP/oneM2M/CSE/DMR/CRE/BV/014_06 TP/oneM2M/CSE/DMR/CRE/BV/015_15-31 TP/oneM2M/CSE/DMR/RET/BV/001_06 TP/oneM2M/CSE/DMR/RET/BO/002 TP/oneM2M/CSE/DMR/RET/BO/003_06 TP/oneM2M/CSE/DMR/RET/BV/004_06 TP/oneM2M/CSE/DMR/RET/BV/005_06 TP/oneM2M/CSE/DMR/RET/BV/006_06 TP/oneM2M/CSE/DMR/RET/BO/007_06 TP/oneM2M/CSE/DMR/RET/BO/008_06 TP/oneM2M/CSE/DMR/RET/BV/013_14 TP/oneM2M/CSE/DMR/RET/BO/014_14 TP/oneM2M/CSE/DMR/RET/BV/015_14 TP/oneM2M/CSE/DMR/RET/BV/016_14 TP/oneM2M/CSE/DMR/RET/BV/017_14 TP/oneM2M/CSE/DMR/RET/BV/018_14 TP/oneM2M/CSE/DMR/RET/BO/019_14 TP/oneM2M/CSE/DMR/UPD/BI/005_06 TP/oneM2M/CSE/DMR/UPD/BO/006_06 TP/oneM2M/CSE/DMR/UPD/BO/007_06 TP/oneM2M/CSE/DMR/UPD/BO/008_06 TP/oneM2M/CSE/DMR/UPD/BO/009_06 TP/oneM2M/CSE/DMR/UPD/BV/014_12-25 TP/oneM2M/CSE/DMR/DEL/BV/001_06 TP/oneM2M/CSE/DMR/DEL/BV/002_06 TP/oneM2M/CSE/DMR/DEL/BV/003 TP/oneM2M/CSE/DMR/DEL/BV/004_06 TP/oneM2M/CSE/DMR/DEL/BV/005 TP/oneM2M/CSE/DMR/DEL/BV/006 TP/oneM2M/CSE/DMR/BV/001_01 TP/oneM2M/CSE/DMR/BV/001_02 TP/oneM2M/CSE/DMR/BV/001_03 TP/oneM2M/CSE/DMR/BV/002_06 TP/oneM2M/CSE/DMR/BV/003_06 TP/oneM2M/CSE/DMR/BV/004_06 TP/oneM2M/CSE/DMR/BV/005_06 TP/oneM2M/CSE/SUB/BV/001 TP/oneM2M/CSE/SUB/BV/002 TP/oneM2M/CSE/SUB/BV/003 TP/oneM2M/CSE/SUB/BV/004 TP/oneM2M/CSE/SUB/BV/005
CE/SUB/00001/00002		Support the <i>labels</i> attribute of <subscription> resource.	TP/oneM2M/CSE/DMR/CRE/BV/015_17 TP/oneM2M/CSE/DMR/UPD/BV/001_06 TP/oneM2M/CSE/DMR/UPD/BV/002_06 TP/oneM2M/CSE/DMR/UPD/BV/003_06 TP/oneM2M/CSE/DMR/UPD/BV/004_06 TP/oneM2M/CSE/DMR/UPD/BV/014_14



Feature ID	Feature Catalogue	Description	Mapped Test Purposes
CE/SUB/00001/00003		Support the <i>creator</i> attribute of <subscription> resource	TP/oneM2M/CSE/DMR/CRE/BV/015_30
CE/SUB/00001/00004		Support the <i>subscriberURI</i> attribute of <subscription> resource	TP/oneM2M/CSE/DMR/CRE/BV/015_31
CE/SUB/00004/00001		Notify the address indicated in <i>notificationURI</i> with notification elements multiplicity equals 1[2]	TP/oneM2M/CSE/SUB/BV/006 TP/oneM2M/CSE/SUB/BV/007 TP/oneM2M/CSE/SUB/BV/008 TP/oneM2M/CSE/SUB/BV/009 TP/oneM2M/CSE/SUB/BV/011 TP/oneM2M/CSE/SUB/BV/012 TP/oneM2M/CSE/SUB/BV/013 TP/oneM2M/CSE/SUB/BV/014 TP/oneM2M/CSE/SUB/BV/015 TP/oneM2M/CSE/SUB/BV/016 TP/oneM2M/CSE/SUB/BV/017 TP/oneM2M/CSE/SUB/BV/018 TP/oneM2M/CSE/SUB/BV/019 TP/oneM2M/CSE/SUB/BV/020 TP/oneM2M/CSE/SUB/BV/021
CE/SUB/00004/00002		Notify with <i>notificationEvent/representation</i> set in the notification	
CE/SUB/00004/00003		Notify with <i>creator</i> set in the notification	TP/oneM2M/CSE/SUB/BV/010
CE/SEC/00001/00001		Support <accessControlPolicy> resource with attributes multiplicity equals 1[1]	TP/oneM2M/CSE/DMR/CRE/BV/001_03 TP/oneM2M/CSE/DMR/CRE/BV/002_03 TP/oneM2M/CSE/DMR/CRE/BV/003_03 TP/oneM2M/CSE/DMR/CRE/BV/004_03 TP/oneM2M/CSE/DMR/CRE/BV/015_13-14 TP/oneM2M/CSE/DMR/CRE/BV/016_01 TP/oneM2M/CSE/DMR/CRE/BV/017_01 TP/oneM2M/CSE/DMR/RET/BV/001_03 TP/oneM2M/CSE/DMR/RET/BO/002 TP/oneM2M/CSE/DMR/RET/BO/003_03 TP/oneM2M/CSE/DMR/RET/BV/004_03 TP/oneM2M/CSE/DMR/RET/BV/005_03 TP/oneM2M/CSE/DMR/RET/BV/006_03 TP/oneM2M/CSE/DMR/RET/BO/007_03 TP/oneM2M/CSE/DMR/RET/BO/008_03 TP/oneM2M/CSE/DMR/RET/BV/013_01 TP/oneM2M/CSE/DMR/RET/BO/014_01 TP/oneM2M/CSE/DMR/RET/BV/015_01 TP/oneM2M/CSE/DMR/RET/BV/016_01 TP/oneM2M/CSE/DMR/RET/BV/017_01 TP/oneM2M/CSE/DMR/RET/BV/018_01 TP/oneM2M/CSE/DMR/RET/BO/019_01 TP/oneM2M/CSE/DMR/UPD/BI/005_03 TP/oneM2M/CSE/DMR/UPD/BO/006_03 TP/oneM2M/CSE/DMR/UPD/BO/007_03 TP/oneM2M/CSE/DMR/UPD/BO/008_03 TP/oneM2M/CSE/DMR/UPD/BO/009_03 TP/oneM2M/CSE/DMR/UPD/BV/014_08-11 TP/oneM2M/CSE/DMR/UPD/BV/015_01 TP/oneM2M/CSE/DMR/DEL/BV/001_03 TP/oneM2M/CSE/DMR/DEL/BV/002_03 TP/oneM2M/CSE/DMR/DEL/BV/003 TP/oneM2M/CSE/DMR/DEL/BV/004_03 TP/oneM2M/CSE/DMR/DEL/BV/005 TP/oneM2M/CSE/DMR/DEL/BV/006 TP/oneM2M/CSE/DMR/BV/001_01 TP/oneM2M/CSE/DMR/BV/001_02 TP/oneM2M/CSE/DMR/BV/001_03 TP/oneM2M/CSE/DMR/BV/002_03 TP/oneM2M/CSE/DMR/BV/003_03 TP/oneM2M/CSE/DMR/BV/004_03

Feature ID	Feature Catalogue	Description	Mapped Test Purposes
			TP/oneM2M/CSE/DMR/BV/005_03 TP/oneM2M/CSE/SEC/ACP/BV/001 TP/oneM2M/CSE/SEC/ACP/BV/002 TP/oneM2M/CSE/SEC/ACP/BV/003 TP/oneM2M/CSE/SEC/ACP/BV/004 TP/oneM2M/CSE/SEC/ACP/BV/005 TP/oneM2M/CSE/SEC/ACP/BO/006 TP/oneM2M/CSE/SEC/ACP/BV/007 TP/oneM2M/CSE/SEC/ACP/BO/008 TP/oneM2M/CSE/SEC/ACP/BV/009 TP/oneM2M/CSE/SEC/ACP/BO/010 TP/oneM2M/CSE/SEC/ACP/BV/011 TP/oneM2M/CSE/SEC/ACP/BO/012 TP/oneM2M/CSE/SEC/ACP/BO/013 TP/oneM2M/CSE/SEC/ACP/BV/014 TP/oneM2M/CSE/SEC/ACP/BV/015 TP/oneM2M/CSE/SEC/ACP/BV/016
CE/SEC/00001/00002		Support the <i>labels</i> attribute of <accessControlPolicy> resource	TP/oneM2M/CSE/DMR/CRE/BV/015_14 TP/oneM2M/CSE/DMR/UPD/BV/014_09
CE/SEC/00002/00001		Support <i>accessControlPolicyIDs</i> attribute for <resource> that the Implementation supports.	TP/oneM2M/CSE/DMR/CRE/BV/015_01 TP/oneM2M/CSE/DMR/CRE/BV/014_01 TP/oneM2M/CSE/DMR/CRE/BV/015_15 TP/oneM2M/CSE/DMR/CRE/BV/014_15
CE/SEC/00002/00002		Support access control decision and enforcement making on the Hosting CSE	
CE/DIS/00001/00001		Support the Discovery request with filterUsage equals to "Discovery"	TP/oneM2M/CSE/DIS/BV/001
CE/DIS/00001/00002		Support discovery with filterCriteria ( <i>createdBefore, createdAfter, modifiedSince, unmodifiedSince, stateTagSmaller, stateTagBigger, expireBefore, expireAfter, labels, resourceType, sizeAbove, sizeBelow, contentType, limit, attribute</i> )	TP/oneM2M/CSE/DIS/BV/002 TP/oneM2M/CSE/DIS/BV/003 TP/oneM2M/CSE/DIS/BV/004 TP/oneM2M/CSE/DIS/BO/005 TP/oneM2M/CSE/DIS/BO/006 TP/oneM2M/CSE/DIS/BI/007 TP/oneM2M/CSE/DIS/BI/008_01-04
CE/DIS/00001/00003		Support discovery with filterCriteria ( <i>level, offset</i> )	
CE/DIS/00001/00004		Support discovery with content filter ( <i>contentFilterSyntax, contentFilterQuery of filterCriteria</i> )	
CE/DIS/00001/00005		Support discovery with filterCriteria ( <i>filterOperation</i> )	
CE/GMG/00001/00001		Support the <group> resource with attributes multiplicity equals 1[1]	TP/oneM2M/CSE/DMR/CRE/BV/001_02 TP/oneM2M/CSE/DMR/CRE/BV/002_02 TP/oneM2M/CSE/DMR/CRE/BV/003_02 TP/oneM2M/CSE/DMR/CRE/BV/004_02 TP/oneM2M/CSE/DMR/CRE/BV/012_02 TP/oneM2M/CSE/DMR/CRE/BV/013_02 TP/oneM2M/CSE/DMR/CRE/BV/014_02 TP/oneM2M/CSE/DMR/CRE/BV/016_04 TP/oneM2M/CSE/DMR/CRE/BV/017_04 TP/oneM2M/CSE/DMR/RET/BV/001_02 TP/oneM2M/CSE/DMR/RET/BO/002 TP/oneM2M/CSE/DMR/RET/BO/003_02 TP/oneM2M/CSE/DMR/RET/BV/004_02 TP/oneM2M/CSE/DMR/RET/BV/005_02 TP/oneM2M/CSE/DMR/RET/BV/006_02 TP/oneM2M/CSE/DMR/RET/BO/007_02 TP/oneM2M/CSE/DMR/RET/BO/008_02 TP/oneM2M/CSE/DMR/RET/BV/013_05 TP/oneM2M/CSE/DMR/RET/BO/014_05 TP/oneM2M/CSE/DMR/RET/BV/015_05

Feature ID	Feature Catalogue	Description	Mapped Test Purposes
			TP/oneM2M/CSE/DMR/RET/BV/016_05 TP/oneM2M/CSE/DMR/RET/BV/017_05 TP/oneM2M/CSE/DMR/RET/BV/018_05 TP/oneM2M/CSE/DMR/RET/BO/019_05 TP/oneM2M/CSE/DMR/UPD/BI/005_02 TP/oneM2M/CSE/DMR/UPD/BO/006_02 TP/oneM2M/CSE/DMR/UPD/BO/007_02 TP/oneM2M/CSE/DMR/UPD/BO/008_02 TP/oneM2M/CSE/DMR/UPD/BO/009_02 TP/oneM2M/CSE/DMR/UPD/BV/015_03 TP/oneM2M/CSE/DMR/UPD/BV/016_02 TP/oneM2M/CSE/DMR/DEL/BV/001_02 TP/oneM2M/CSE/DMR/DEL/BV/002_02 TP/oneM2M/CSE/DMR/DEL/BV/003 TP/oneM2M/CSE/DMR/DEL/BV/004_02 TP/oneM2M/CSE/DMR/DEL/BV/005 TP/oneM2M/CSE/DMR/DEL/BV/006 TP/oneM2M/CSE/DMR/BV/001_01 TP/oneM2M/CSE/DMR/BV/001_02 TP/oneM2M/CSE/DMR/BV/001_03 TP/oneM2M/CSE/DMR/BV/002_02 TP/oneM2M/CSE/DMR/BV/003_02 TP/oneM2M/CSE/DMR/BV/004_02 TP/oneM2M/CSE/DMR/BV/005_02 TP/oneM2M/CSE/GMG/BV/001 TP/oneM2M/CSE/GMG/BV/002 TP/oneM2M/CSE/GMG/BV/003 TP/oneM2M/CSE/GMG/BV/004 TP/oneM2M/CSE/GMG/BV/016 TP/oneM2M/CSE/GMG/BV/017
CE/GMG/00001/00002		Support the <i>labels</i> attribute of <group> resource	
CE/GMG/00001/00003		Support the <i>creator</i> attribute of <group> resource	
CE/GMG/00001/00004		Support the <i>groupName</i> attribute of <group> resource	
CE/GMG/00002/00001		Support the <i>memberTypeValidated</i> attribute of <group> resource	
CE/GMG/00002/00002		Support the validation of member's resource type and set the <i>memberTypeValidated</i> as well as the procedure to update the group according to <i>consistencyStrategy</i>	TP/oneM2M/CSE/GMG/BV/005 TP/oneM2M/CSE/GMG/BV/006 TP/oneM2M/CSE/GMG/BV/007 TP/oneM2M/CSE/GMG/BV/013 TP/oneM2M/CSE/GMG/BV/014 TP/oneM2M/CSE/GMG/BV/015 TP/oneM2M/CSE/GMG/BV/018 TP/oneM2M/CSE/GMG/BV/019
CE/GMG/00002/00003		Support the <i>consistencyStrategy</i> attribute of <group> resource	
CE/GMG/00003/00001		Fan out of request to all members and aggregate member responses	TP/oneM2M/CSE/GMG/BV/008 TP/oneM2M/CSE/GMG/BV/009 TP/oneM2M/CSE/GMG/BV/020_01-04 TP/oneM2M/CSE/GMG/BO/021_01-04 TP/oneM2M/CSE/GMG/BV/022_01-04 TP/oneM2M/CSE/GMG/BV/023_01-04 TP/oneM2M/CSE/GMG/BV/024
CE/GMG/00003/00002		Create sub group resource in case multiple members belong to same member CSE	
CE/GMG/00003/00003		Create <subscription> resource via group without aggregating notifications	
CE/GMG/00003/00004		Create <subscription> resource via group and aggregate notifications	

Feature ID	Feature Catalogue	Description	Mapped Test Purposes
CE/GMG/00003/00005		Support the <i>membersAccessControlPolicyIDs</i> attribute of <group> resource	
CE/DMG/00001/00001		Support <node> resource with attributes multiplicity equals 1[1]	
CE/DMG/00001/00002		Support the <i>labels</i> attribute of <node> resource	
CE/DMG/00001/00003		Support the <i>hostedCSELink</i> attribute of <node> resource	
CE/DMG/00002/00001		Support <mgmtObj> resource with attributes multiplicity equals 1[1]	
CE/DMG/00002/00002		Support the <i>labels</i> attribute of <mgmtObj> resource	
CE/DMG/00002/00003		Support the <i>description</i> attribute of <mgmtObj> resource	
CE/DMG/00002/00004		Support the <i>mgmtLink</i> attribute of <mgmtObj> resource	
CE/DMG/00003/00001		Support the [software] specialization attributes multiplicity equals 1[1]	
CE/DMG/00003/00002		Support the <i>activate</i> attribute of [software] resource	
CE/DMG/00003/00003		Support the <i>deactivate</i> attribute of [software] resource	
CE/DMG/00003/00004		Support the <i>activeStatus</i> attribute of [software] resource	
CE/DMG/00004/00001		Support the [firmware] specialization attributes multiplicity equals 1[1]	
CE/DMG/00005/00001		Support the [deviceInfo] specialization attributes multiplicity equals 1[1]	
CE/DMG/00006/00001		Support [deviceCapability] specialization attributes multiplicity equals 1[1]	
CE/DMG/00006/00002		Support the <i>enable</i> attribute of [deviceCapability] resource	
CE/DMG/00006/00003		Support the <i>disable</i> attribute of [deviceCapability] resource	
CE/DMG/00007/00001		Support [reboot] specialization attributes multiplicity equals 1[1]	
CE/DMG/00008/00001		Support [memory] specialization attributes multiplicity equals 1[1]	
CE/DMG/00009/00001		Support the [battery] specialization attributes multiplicity equals 1[1]	
CE/DMG/00010/00001		Support [eventLog] specialization attributes multiplicity equals 1[1]	
CE/DMG/00011/00001		Support [areaNwkInfo] specialization attributes multiplicity equals 1[1]	
CE/DMG/00012/00001		Support [areaNwkDeviceInfo] specialization attributes multiplicity equals 1[1]	
CE/DMG/00012/00002		Support the <i>sleepInterval</i> attribute of [areaNwkDeviceInfo] resource	
CE/DMG/00012/00003		Support the <i>sleepDuration</i> attribute of [areaNwkDeviceInfo] resource	
CE/DMG/00012/00004		Support the <i>status</i> attribute of [areaNwkDeviceInfo] resource	
CE/DMG/00013/00001		Support the <i>objectIDs</i> attribute of	

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Feature ID	Feature Catalogue	Description	Mapped Test Purposes
		<mgmtObj> resource	
CE/DMG/00013/00002		Support the <i>objectPaths</i> attribute of <mgmtObj> resource	
CE/DMG/00013/00003		Support the <i>mgmtLink</i> attribute of <mgmtObj> resource	

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# History

<b>Publication history</b>		
V2.0.0	12-Mar-2018	Release 2A - Publication