



Figure 1: logo

oneM2M	
Technical Specification	
Document Number	TS-0025-V-3.2.1
Document Name:	Product profiles
Date:	2025-06-27
Abstract:	The document provides definition to product profiles that comply with oneM2M standards.
Template Version: 08 September 2015 (Dot not modify)	

This Specification is provided for future development work within oneM2M only. The Partners accept no liability for any use of this Specification.

The present document has not been subject to any approval process by the oneM2M Partners Type 1. Published oneM2M specifications and reports for implementation should be obtained via the oneM2M Partners' Publications Offices.

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>

Copyright Notification

© 2015, oneM2M Partners Type 1 (ARIB, ATIS, CCSA, ETSI, TTA, TSDSI, TTA, TTC).

All rights reserved.

The copyright extends to reproduction in all media.

Notice of Disclaimer & Limitation of Liability

The information provided in this document is directed solely to professionals who have the appropriate degree of experience to understand and interpret its contents in accordance with generally accepted engineering or other professional standards and applicable regulations. No recommendation as to products or vendors is made or should be implied.

NO REPRESENTATION OR WARRANTY IS MADE THAT THE INFORMATION IS TECHNICALLY ACCURATE OR SUFFICIENT OR CONFORMS TO ANY STATUTE, GOVERNMENTAL RULE OR REGULATION, AND FURTHER, NO REPRESENTATION OR WARRANTY IS MADE OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR AGAINST INFRINGEMENT OF INTELLECTUAL PROPERTY RIGHTS. NO oneM2M PARTNER TYPE 1 SHALL BE LIABLE, BEYOND THE AMOUNT OF ANY SUM RECEIVED IN PAYMENT BY THAT PARTNER FOR THIS DOCUMENT, WITH RESPECT TO ANY CLAIM, AND IN NO EVENT SHALL oneM2M BE LIABLE FOR LOST PROFITS OR OTHER INCIDENTAL OR CONSEQUENTIAL DAMAGES. oneM2M EXPRESSLY ADVISES ANY AND ALL USE OF OR RELIANCE UPON THIS INFORMATION PROVIDED IN THIS DOCUMENT IS AT THE RISK OF THE USER.

Contents

- 1 Scope
- 2 References
 - 2.1 Normative references
 - 2.2 Informative references
- 3 Definitions, symbols and abbreviations
 - 3.1 Definitions
 - 3.2 Symbols
 - 3.3 Abbreviations
 - 3.4 Acronyms
- 4 Conventions

5	Product service profiles
5.1	Introduction
5.2	Constrained sensor as ADN
5.2.1	Profile description
5.2.2	Profile usage examples
5.2.3	Fundamental feature sets
5.3	Constrained actuator as ADN
5.3.1	Profile description
5.3.2	Profile usage examples
5.3.3	Fundamental feature sets
5.3.4	ADN1-requestReachable
5.3.5	ADN1- pollingChannel
5.4	ADN profile 3
5.4.1	Profile description
5.4.2	Profile usage examples
5.4.3	Fundamental feature sets
5.4.4	Extendable feature sets
5.5	ADN Profile 4
5.5.1	Profile description
5.5.2	Profile usage examples
5.5.3	Fundamental feature sets
5.6	IN Profile
5.6.1	Profile description
5.6.2	Profile usage examples
5.6.3	Fundamental feature sets
5.7	Constrained actuator as ASN
5.7.1	Profile description
5.7.2	Profile usage examples
5.7.3	Fundamental feature sets
5.7.4	ASN-requestReachable
5.7.5	ASN- pollingChannel
5.8	Gateway as MN
5.8.1	Profile description
5.8.2	Profile usage examples
5.8.3	Fundamental feature sets
5.9	Field configurable oneM2M Entity Hosted on a 3GPP Device
5.9.1	Profile description
5.9.2	Profile usage examples
5.9.3	Fundamental feature sets
	History

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.

2 References

2.1 Normative references

Void

2.2 Informative references

- [i.1] oneM2M Drafting Rules (http://member.onem2m.org/Static_pages/Others/Rules_Pages/oneM2M-Drafting-Rules-V1_0.doc)
- [i.2] TR-0032-Platform_features_catalogue

3 Definitions, symbols and abbreviations

3.1 Definitions

Void

3.2 Symbols

Void

3.3 Abbreviations

Void

3.4 Acronyms

Void

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]

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 TR-0032[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 2: Table 5.1-1: Fundamental feature sets for all Profiles

Function	Feature Set	Feature	Remark
<i>GEN</i>	<i>GE/GEN/00001</i>	At least one	Support one of the bindings.
	<i>GE/GEN/00002</i>	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 3: Table 5.2.3-1: Fundamental feature sets for constrained sensor as ADN

Function	Feature Set	Feature	Remark
<i>GEN</i>	<i>AE/GEN/00001</i>	At least one	Support one of the format of resource identification
	<i>AE/GEN/00002</i>	<i>AE/GEN/00002/00001</i>	Support create request
<i>DMR</i>	<i>AE/DMR/00002</i>	<i>AE/DMR/00002/00001</i>	Support create contentInstance

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 fro 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 4: Table 5.3.3-1: Fundamental feature sets for constrained sensor as ADN

Function	Feature Set	Feature	Remark
<i>GEN</i>	<i>AE/GEN/00001</i>	At least one	Resource identifiers
<i>GEN</i>	<i>AE/GEN/00002</i>	<i>AE/GEN/00002/00001</i>	Support Create request targeting one resource
<i>REG</i>	<i>AE/REG/00002</i>	<i>AE/REG/00002/00001</i>	Create <AE> with mandatory attributes[2]
<i>REG</i>	<i>AE/REG/00002</i>	<i>AE/REG/00002/00002</i>	Create <AE> with <i>pointOfAccess</i>
<i>SUB</i>	<i>AE/SUB/00001</i>	<i>AE/SUB/00001/00001</i>	Create <subscription> with mandatory attributes [2]

5.3.4 ADN1-requestReachable

Table 5: Table 5.3.4-1: Notification feature sets for constrained actuator as ADN

Function	Feature Set	Feature	Remark
<i>SUB</i>	<i>AE/SUB/00004</i>	<i>AE/SUB/00004/00001</i>	Receiving a notification

5.3.5 ADN1- pollingChannel

Table 6: Table 5.3.5-1: Polling Channel feature sets for constrained actuator as ADN

Function	Feature Set	Feature	Remark
<i>PCH</i>	<i>GE/PCH/00001</i>	<i>GE/PCH/00001/00001</i>	Polling Channel
		<i>GE/PCH/00001/00002</i>	Source
		<i>GE/PCH/00001/00003</i>	Management

Function	Feature Set	Feature	Remark
<i>PCH</i>	<i>GE/PCH/00002</i>	<i>GE/PCH/00002/00001</i>	Long Polling Procedure

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 Section 7.4.3 Feature Set. 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

7.4.3-1.

Table 7: Table 5.4.3-1: Fundamental feature set for ADN profile 3

Function	Feature Set	Feature	Remark
<i>GEN</i>	<i>AE/GEN/00001</i>	At least one	Support one of the format of resource identification
	<i>AE/GEN/00002</i>	<i>AE/GEN/00002/00001</i>	Support Create request targeting one resource
<i>REG</i>	<i>AE/REG/00002</i>	<i>AE/REG/00002/00001</i>	Create <AE> with mandatory attributes
<i>DMR</i>	<i>AE/DMR/00001</i>	<i>AE/DMR/00001/00001</i>	Create <container> with no attribute set
	<i>AE/DMR/00002</i>	<i>AE/DMR/00002/00001</i>	Create <contentInstance> with mandatory attributes
<i>SUB</i>	<i>AE/SUB/00004</i>	<i>AE/SUB/00004/00001</i>	Receiving a notification

5.4.4 Extendable feature sets

5.5 ADN Profile 4

5.5.1 Profile description

oneM2M provides serveral logical entity concepts called ‘Node’ to explain oneM2M Architecture in TS-0001. And from the descriptions about the node types indicates some examples that particular node could match with pyshical 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 GEN

Feature Set	Feature	Remark
<i>AE/GEN/00001</i>	At least one	Support one of the format of resource identification
<i>AE/GEN/00002</i>	<i>AE/GEN/00002/00001</i>	Support Create request targeting one resource
	<i>AE/GEN/00002/00002</i>	Support Retrieve request targeting one resource
	<i>AE/GEN/00002/00003</i>	Support Update request targeting one resource

Table 5.5.3-2: Feature set for ADN Profile 4 REG

Feature Set	Feature	Remark
<i>AE/REG/00001</i>	<i>AE/REG/00001/00001</i>	The Retrieval of <CSEBase> resource
<i>AE/REG/00002</i>	<i>AE/REG/00002/00001</i>	Create <AE> with mandatory attributes
	<i>AE/GEN/00003/00001</i>	Create <AE> with <i>resourceNameattribute</i>
	<i>AE/GEN/00003/00002</i>	Create <AE> with <i>expirationTimeattribute</i>
	<i>AE/DIS/00001/00017</i>	Create <AE> with <i>labels</i>
	<i>AE/REG/00002/00002</i>	Create <AE> with <i>applicationName</i>
	<i>AE/REG/00002/00003</i>	Create <AE> with <i>pointOfAccess</i>
	<i>AE/REG/00002/00004</i>	Create <AE> with <i>nodeLink</i>
	<i>AE/REG/00002/00005</i>	Create <AE> with <i>contentSerialization</i>
	<i>AE/GEN/00003/00002</i>	Update <AE> with <i>expirationTime</i>
	<i>AE/DIS/00001/00017</i>	Update <AE> with <i>labels</i>
	<i>AE/REG/00002/00007</i>	Update <AE> with <i>applicationName</i>
	<i>AE/REG/00002/00008</i>	Update <AE> with <i>pointOfAccess</i>

Feature Set	Feature	Remark
	<i>AE/REG/00002/00009</i>	Update <AE> with <i>nodeLink</i>
	<i>AE/GEN/00002/00005</i>	Update <AE> with <i>requestReachability</i>
	<i>AE/REG/00002/00010</i>	Update <AE> with <i>contentSerialization</i>
	<i>AE/REG/00002/00013</i>	Delete <AE>
	<i>AE/REG/00002/00012</i>	Retrieve <AE>

Table 5.5.3-3: Feature set for ADN Profile 4 DMR

Feature Set	Feature	Remark
<i>AE/DMR/00001</i>	<i>AE/DMR/00001/00001</i>	Create <container> with no attribute set
	<i>AE/GEN/00003/00001</i>	Create <container> with <i>resourceName</i>
	<i>AE/GEN/00003/00002</i>	Create <container> with <i>expirationTime</i>
	<i>AE/DIS/00001/00017</i>	Create <container> with <i>labels</i>
	<i>AE/DMR/00001/00002</i>	Create <container> with <i>maxNrOfInstances</i>
	<i>AE/DMR/00001/00003</i>	Create <container> with <i>maxByteSize</i>
	<i>AE/DMR/00001/00004</i>	Create <container> with <i>maxInstanceAge</i>
	<i>AE/GEN/00003/00002</i>	Update <container> with <i>expirationTime</i>
	<i>AE/DIS/00001/00017</i>	Update <container> with <i>labels</i>
	<i>AE/DMR/00001/00006</i>	Update <container> with <i>maxNrOfInstances</i>
	<i>AE/DMR/00001/00007</i>	Update <container> with <i>maxByteSize</i>
	<i>AE/DMR/00001/00008</i>	Update <container> with <i>maxInstanceAge</i>
	<i>AE/DMR/00001/00011</i>	Delete <container>
	<i>AE/DMR/00001/00012</i>	Retrieve <container>
<i>AE/DMR/00002</i>	<i>AE/DMR/00002/00001</i>	Create <contentInstance> with mandatory attributes

Feature Set	Feature	Remark
	<i>AE/GEN/00003/00001</i>	Create <contentInstance> with <i>resourceName</i>
	<i>AE/GEN/00003/00002</i>	Create <contentInstance> with <i>expirationTime</i>
	<i>AE/DIS/00001/00017</i>	Create <contentInstance> with <i>labels</i>
	<i>AE/DMR/00002/00002</i>	Create <contentInstance> with <i>contentInfo</i>
	<i>AE/DMR/00002/00003</i>	Create <contentInstance> with <i>contentRef</i>
	<i>AE/DMR/00002/00004</i>	Retrieve <contentInstance> resource targeting the <contentInstance> resource
	<i>AE/DMR/00002/00005</i>	Retrieve oldest <contentInstance> resource targeting the <oldest> resource
	<i>AE/DMR/00002/00006</i>	Retrieve latest <contentInstance> resource targeting the <latest> resource
	<i>AE/DMR/00002/00007</i>	Delete <contentInstance>
	<i>AE/DMR/00002/00008</i>	Delete oldest <contentInstance> resource targeting the <oldest> resource
	<i>AE/DMR/00002/00009</i>	Delete latest <contentInstance> resource targeting the <latest> resource

5.6 IN Profile

5.6.1 Profile description

oneM2M provides several logical entity concepts called ‘Node’ to explain oneM2M Architecture in TS-0001. 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 11: Table 5.6.3-1: Fundamental feature set for IN Profile GEN

Feature Set	Feature	Remark
<i>CE/GEN/00001</i>	<i>CE/GEN/00001/00001</i>	Support Unstructured resource identifier
	<i>CE/GEN/00001/00002</i>	Support Structured resource identifier
<i>CE/GEN/00002</i>	<i>CE/GEN/00002/00001</i>	Support blocking request
	<i>CE/GEN/00002/00002</i>	Support ResultContent values of “attributes”, “hierarchical address”, “hierarchical address and attributes”, “nothing”
	<i>CE/GEN/00002/00016</i>	Support ResultContent values of “modified attributes”
	<i>CE/GEN/00002/00004</i>	Support non-blocking synchronous request handling
	<i>CE/GEN/00002/00005</i>	Support non-blocking asynchronous request handling

Feature Set	Feature	Remark
	<i>CE/GEN/00002/00006</i>	Support for transit CSE forwarding of requests and responses

Table 5.6.3-2: Fundamental feature set for IN Profile REG

Feature Set	Feature	Remark
<i>CE/REG/00001</i>	<i>CE/REG/00001/00001</i>	Support <CSEBase> resource.
	<i>CE/REG/00001/00002</i>	Support the <i>cseType</i> attribute of <CSEBase>
	<i>CE/REG/00001/00003</i>	Support the <i>nodeLink</i> attribute of <CSEBase>
<i>CE/REG/00002</i>	<i>CE/REG/00002/00001</i>	Support <AE> resource
	<i>CE/REG/00002/00002</i>	AE registration/de-registration without a pre-assigned AE-ID in the registration request and where the AE-ID Stem is configured with ‘C’.
	<i>CE/REG/00002/00003</i>	AE registration/de-registration without a pre-assigned AE-ID in the registration request and where the AE-ID Stem is configured with ‘S’.
	<i>CE/REG/00002/00004</i>	AE registration/de-registration without a pre-assigned AE-ID in the registration request and where no AE-ID Stem is included.
	<i>CE/REG/00002/00007</i>	Support the <i>applicationName</i> attribute of <AE> resource
	<i>CE/REG/00002/00008</i>	Support the <i>pointOfAccess</i> attribute of <AE> resource
	<i>CE/REG/00002/00009</i>	AE registration with pre-assigned AE-ID

Feature Set	Feature	Remark
<i>CE/REG/00004</i>	<i>CE/REG/00004/00001</i>	Support <remoteCSE> resource with attributes multiplicity equals 1[1]
	<i>CE/REG/00004/00002</i>	Support the <i>cseType</i> attribute of <remoteCSE> resource
	<i>CE/REG/00004/00003</i>	Support the <i>pointOfAccess</i> attribute of <remoteCSE> resource
	<i>CE/REG/00004/00004</i>	Support the <i>nodeLink</i> attribute of <remoteCSE> resource

Table 5.6.3-3: Fundamental feature set for IN Profile DMR

Feature Set	Feature	Remark
<i>CE/DMR/00001</i>	<i>CE/DMR/00001/00001</i>	Support <container> resource with attributes multiplicity equals 1[1]
	<i>CE/DMR/00002/00001</i>	Support the <i>creator</i> attribute of <container> resource
	<i>CE/DMR/00001/00002</i>	Support the <i>maxNrOfInstances</i> attribute of <container> resource
	<i>CE/DMR/00001/00003</i>	Support the <i>maxByteSize</i> attribute of <container> resource
	<i>CE/DMR/00001/00004</i>	Support the <i>maxInstanceAge</i> attribute of <container> resource
<i>CE/DMR/00002</i>	<i>CE/DMR/00002/00001</i>	Support <contentInstance> resource with attributes multiplicity equals 1[1]
	<i>CE/DMR/00002/00001</i>	Support the <i>creator</i> attribute of <contentInstance> resource

Feature Set	Feature	Remark
<i>CE/DMR/00003</i>	<i>CE/DMR/00002/00002</i>	Support the <i>contentInfo</i> attribute of <contentInstance> resource
	<i>CE/DMR/00002/00004</i>	Retrieve and Delete of latest <contentInstance> resource by <latest> virtual resource
	<i>CE/DMR/00002/00057</i>	Retrieve and Delete of oldest <contentInstance> resource by <oldest> virtual resource
	<i>CE/DMR/00003/00001</i>	Support CRUD of <flexcontainer> resource

Table 5.6.3-4: Fundamental feature set for IN Profile SUB

Feature Set	Feature	Remark
<i>CE/SUB/00004</i>	<i>CE/SUB/00001/00001</i>	The Support of <subscription> resource with attributes multiplicity equals 1[1]
	<i>CE/SUB/00001/00001</i>	Support the <i>creator</i> attribute of <subscription> resource
	<i>CE/SUB/00001/00001</i>	Support the <i>subscriberURI</i> attribute of <subscription> resource
	<i>CE/SUB/00004/00001</i>	Notify the address indicated in <i>notificationURI</i> with notification elements multiplicity equals 1[2]
<i>CE/SUB/00004</i>	<i>CE/SUB/00004/00002</i>	Notify with notification-Event/representation set in the notification
	<i>CE/SUB/00004/00003</i>	Notify with creator set in the notification

Table 5.6.3-5: Fundamental feature set for IN Profile SEC

Feature Set	Feature	Remark
<i>CE/SEC/00001</i>	<i>CE/SEC/00001/00001</i>	Support <accessControlPolicy> resource with attributes multiplicity equals 1[1]
<i>CE/SEC/00002</i>	<i>CE/SEC/00002/00001</i>	Support <i>accessControlPolicyIDs</i> attribute for <resource> that the Implementation supports.
	<i>CE/SEC/00002/00002</i>	Support access control decision and enforcement making on the Hosting CSE

Table 5.6.3-6: Fundamental feature set for IN Profile GMG

Feature Set	Feature	Remark
<i>CE/GMG/00001</i>	<i>CE/GMG/00001/00001</i>	Support the <group> resource with attributes multiplicity equals 1[1] Support <group> resource with MIXED memberType
<i>CE/GMG/00002</i>	<i>CE/GMG/00002/00001</i>	Support <group> resource with single specific resource typesSupport <i>consistencyStrategy</i>
<i>CE/GMG/00003</i>	<i>CE/GMG/00003/00001</i>	Fan out of request to all members

Table 5.6.3-7: Fundamental feature set for IN Profile DIS

Feature Set	Feature	Remark
<i>CE/DIS/00001</i>	<i>CE/DIS/00001/00001</i>	Support the Discovery request with filterUsage equals to “Discovery”

Feature Set	Feature	Remark
	<i>CE/DIS/00001/00002</i>	Support discovery with filterCriteria (<i>createdBefore, createdAfter, modifiedSince, unmodifiedSince, stateTags, labels, resourceType, sizeAbove, sizeBelow, contentType, limit, attribute</i>)
	<i>CE/DIS/00001/00006</i>	Support discovery with filterCriteria (<i>labels</i>)

Table 5.6.3-8: Fundamental feature set for IN Profile PCH

<i>CE/PCH/00001</i>	<i>CE/PCH/00001/00001</i>	Polling Channel resource management
<i>CE/PCH/00002</i>	<i>CE/PCH/00002/00001</i>	Long Polling Procedure

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

Feature Set	Feature	Remark
<i>CE/GEN/00001</i>	<i>CE/GEN/00001/00001</i>	Unstructured resource id
	<i>CE/GEN/00001/00002</i>	Structured resource id
<i>CE/GEN/00002</i>	<i>CE/GEN/00002/00001</i>	Support blocking request

Table 20: Table 5.7.3-2: Fundamental feature sets for constrained sensor as ASN REG

Feature Set	Feature	Remark
<i>CE/REG/00005</i>	<i>CE/REG/00005/00001</i>	The Creation with <remoteCSE> resource for CSE registration with mandatory attributes[2]
	<i>CE/REG/00005/00006</i>	Create the <remoteCSE> with <i>pointOfAccess</i>

Table 21: Table 5.7.3-3: Fundamental feature sets for constrained sensor as ASN DMR

Feature Set	Feature	Remark
<i>CE/DMR/00002</i>	<i>CE/DMR/00002/00001</i>	Support <contentInstance> resource with attributes multiplicity equals 1[1]

5.7.4 ASN-requestReachable

Table 22: Table 5.7.4-1: Notification feature sets for constrained actuator as ASN

Function	Feature Set	Feature	Remark
<i>SUB</i>	<i>AE/SUB/00004</i>	<i>AE/SUB/00004/00001</i>	Receiving a notification

5.7.5 ASN- pollingChannel

Table 23: Table 5.7.5-1: Polling Channel feature sets for constrained actuator as ASN

Function	Feature Set	Feature	Remark
<i>PCH</i>	<i>GE/PCH/00001</i>	GE/PCH/00001/00001	Polling Channel
		GE/PCH/00001/00002	Source
		GE/PCH/00001/00003	Management
<i>PCH</i>	<i>GE/PCH/00002</i>	<i>GE/PCH/00002/00001</i>	Long Polling Procedure

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

Feature Set	Feature	Remark
<i>CE/GEN/00001</i>	<i>CE/GEN/00001/00001</i>	Unstructured resource id
	<i>CE/GEN/00001/00002</i>	Structured resource id

Feature Set	Feature	Remark
<i>CE/GEN/00002</i>	<i>CE/GEN/00002/00001</i>	Support blocking request

Table 25: Table 5.8.3-2: Fundamental feature sets for gateway as MN REG

Feature Set	Feature	Remark
<i>CE/REG/00001</i>	<i>CE/REG/00001/00001</i>	Support <CSEBase> resource with attributes multiplicity equals 1[1].
	<i>CE/REG/00001/00002</i>	Support the <i>cseType</i> attribute of <CSEBase> resource
	<i>CE/REG/00001/00003</i>	Support the <i>nodeLink</i> attribute of <CSEBase> resource. This is dependent on the feature set for <node> resource.
	<i>CE/REG/00002</i>	Support <AE> resource with attributes multiplicity equals 1[1]
<i>CE/REG/00002</i>	<i>CE/REG/00002/00001</i>	AE registration/de-registration without a pre-assigned AE-ID in the registration request and where the AE-ID Stem is configured with ‘C’.
	<i>CE/REG/00002/00003</i>	AE registration/de-registration without a pre-assigned AE-ID in the registration request and where the AE-ID Stem is configured with ‘S’.
	<i>CE/REG/00002/00004</i>	AE registration/de-registration without a pre-assigned AE-ID in the registration request and where no AE-ID Stem is included.

Feature Set	Feature	Remark
CE/REG/00004	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
	CE/REG/00002/00007	Support the <i>applicationName</i> attribute of <AE> resource
	CE/REG/00002/00008	Support the <i>pointOfAccess</i> attribute of <AE> resource
	CE/REG/00002/00009	AE registration with pre-assigned AE-ID
	CE/REG/00004/00001	Support <remoteCSE> resource with attributes multiplicity equals 1[1]
	CE/DIS/00001/00006	Support the <i>labels</i> attribute of <remoteCSE> resource
	CE/REG/00004/00002	Support the <i>cseType</i> attribute of <remoteCSE> resource
	CE/REG/00004/00003	Support the <i>pointOfAccess</i> attribute of <remoteCSE> resource
	CE/REG/00004/00004	Support the <i>nodeLink</i> attribute of <remoteCSE> resource

Feature Set	Feature	Remark
<i>CE/REG/00005</i>	<i>CE/REG/00005/00001</i>	The Creation with <remoteCSE> resource for CSE registration with mandatory attributes[2] for Create and locally create <remoteCSE> that represents the Regstree CSE
	<i>CE/REG/00005/00001</i>	Create the <remoteCSE> with <i>resourceName</i> attribute
	<i>CE/REG/00005/00001</i>	Create the <remoteCSE> with expirationTime attribute
	<i>CE/REG/00005/00004</i>	Create the <remoteCSE> with <i>labels</i> attribute
	<i>CE/REG/00005/00002</i>	Create the <remoteCSE> with <i>cseType</i> attribute
	<i>CE/REG/00005/00003</i>	Create the <remoteCSE> with <i>pointOfAccess</i> attribute
	<i>CE/REG/00005/00005</i>	Create the <remoteCSE> with <i>nodeLink</i> attribute
	<i>CE/DIS/00001/00006</i>	Update the <remoteCSE> with <i>labels</i>
	<i>CE/REG/00005/00001</i>	Update the <remoteCSE> with <i>expirationTime</i>
	<i>CE/REG/00005/00006</i>	Update the <remoteCSE> with <i>pointOfAccess</i> attribute
	<i>CE/REG/00005/00007</i>	Update the <remoteCSE> with <i>requestReachability</i>
	<i>CE/REG/00005/00008</i>	Update the <remoteCSE> with <i>nodeLink</i> attribute

Feature Set	Feature	Remark
	<i>CE/REG/00005/00001</i>	Delete the <remoteCSE> resource on the Registrar, also delete the <remoteCSE> resource on the Registree
	<i>CE/REG/00005/00009</i>	Retrieve the <remoteCSE> resource

Table 26: Table 5. 8 .3- 3 : Fundamental feature sets for gateway
as M N DMR

Feature Set	Feature	Remark
<i>CE/DMR/00001</i>	<i>CE/DMR/00001/00001</i>	Support <container> resource with attributes multiplicity equals 1[1]
	<i>CE/DIS/00001/00006</i>	Support the <i>labels</i> attribute of <container> resource
	<i>CE/DMR/00001/00001</i>	Support the <i>creator</i> attribute of <container> resource
	<i>CE/DMR/00001/00002</i>	Support the <i>maxNrOfInstances</i> attribute of <container> resource
	<i>CE/DMR/00001/00003</i>	Support the <i>maxByteSize</i> attribute of <container> resource
	<i>CE/DMR/00001/00004</i>	Support the <i>maxInstanceAge</i> attribute of <container> resource
<i>CE/DMR/00002</i>	<i>CE/DMR/00002/00001</i>	Support <contentInstance> resource with attributes multiplicity equals 1[1]
	<i>CE/DIS/00001/00006</i>	Support the <i>labels</i> attribute of <contentInstance> resource

Feature Set	Feature	Remark
	<i>CE/DMR/00002/00001</i>	Support the <i>creator</i> attribute of <contentInstance> resource
	<i>CE/DMR/00002/00002</i>	Support the <i>contentInfo</i> attribute of <contentInstance> resource
	<i>CE/DMR/00002/00004</i>	Retrieve and Delete of latest <contentInstance> resource by <latest> virtual resource
	<i>CE/DMR/00002/00057</i>	Retrieve and Delete of oldest <contentInstance> resource by <oldest> virtual resource

Table 27: Table 5. 8 .3- 4 : Fundamental feature sets for gateway as M N SUB

Feature Set	Feature	Remark
<i>CE/SUB/00001</i>	<i>CE/SUB/00001/00001</i>	The Support of <subscription> resource with attributes multiplicity equals 1[1]
	<i>CE/DIS/00001/00006</i>	Support the <i>labels</i> attribute of <subscription> resource.
	<i>CE/SUB/00001/00001</i>	Support the <i>creator</i> attribute of <subscription> resource
	<i>CE/SUB/00001/00001</i>	Support the <i>subscriberURI</i> attribute of <subscription> resource
<i>CE/SUB/00004</i>	<i>CE/SUB/00004/00001</i>	Notify the address indicated in <i>notificationURI</i> with notification elements multiplicity equals 1[2]

Feature Set	Feature	Remark
	<i>CE/SUB/00004/00002</i>	Notify with notification-Event/representation set in the notification
	<i>CE/SUB/00004/00003</i>	Notify with creator set in the notification

Table 28: Table 5. 8 .3- 5 : Fundamental feature sets for gateway as M N SEC

Feature Set	Feature	Remark
<i>CE/SEC/00001</i>	<i>CE/SEC/00001/00001</i>	Support <accessControlPolicy> resource with attributes multiplicity equals 1[1]
	<i>CE/DIS/00001/00006</i>	Support the <i>labels</i> attribute of <accessControlPolicy> resource
<i>CE/SEC/00002</i>	<i>CE/SEC/00002/00001</i>	Support <i>accessControlPolicyIDs</i> attribute for <resource> that the Implementation supports.
	<i>CE/SEC/00002/00002</i>	Support access control decision and enforcement making on the Hosting CSE

5.9 Field configurable oneM2M Entity Hosted on a 3GPP Device

5.9.1 Profile description

The profile defines the features required for a oneM2M entity hosted on a 3GPP device. This profile is intended to add required features to those specified in other profiles. For example, a temperature sensor hosted on an CIoT device would required the features described in this section plus the features described for a Constrained Sensor device.

5.9.2 Profile usage examples

The profile applies to CIoT devices that can receive trigger messages via a 3GPP core network. The trigger messages are used provision the device with enrolment

credentials, register the device to a oneM2M CSE and re-establish a connection to the Registrar CSE.

5.9.3 Fundamental feature sets

Table 29: Table 5.2.3-1: Fundamental feature sets for oneM2M entity hosted on a 3GPP Device

Function	Feature Set	Feature	Remark
<i>NSSE</i>	<i>GE/NSSE/00001</i>	<i>GE/NSSE/00001/00001</i>	Support processing a trigger request for enrolment
		<i>GE/NSSE/00001/00002</i>	Support processing a trigger request for establishConnection
		<i>GE/NSSE/00001/00003</i>	Support processing a trigger request for registrationRequest

Annex <A> (Normative): Mapping of feature to test purposes

Table 30: Table A-1: Mapping of feature to Test Purposes for CSE

Feature ID	Description	Mapped Test Purposes
CE/GEN/00001/00001	Support Unstructured resource identifier	<i>TP/oneM2M/CSE/GEN/CRE/001_CSR</i>
		<i>TP/oneM2M/CSE/GEN/CRE/001_SPR</i>
		<i>TP/oneM2M/CSE/GEN/CRE/001_ABS</i>
		<i>TP/oneM2M/CSE/GEN/UPD/001_CSR</i>
		<i>TP/oneM2M/CSE/GEN/UPD/001_SPR</i>
		<i>TP/oneM2M/CSE/GEN/UPD/001_ABS</i>
		<i>TP/oneM2M/CSE/GEN/RET/001_CSR</i>
		<i>TP/oneM2M/CSE/GEN/RET/001_SPR</i>
		<i>TP/oneM2M/CSE/GEN/RET/001_ABS</i>
		<i>TP/oneM2M/CSE/GEN/DEL/001_CSR</i>
		<i>TP/oneM2M/CSE/GEN/DEL/001_SPR</i>
		<i>TP/oneM2M/CSE/GEN/DEL/001_ABS</i>

Feature ID	Description	Mapped Test Purposes
CE/GEN/00001/00002	Support Structured resource identifier	<i>TP/oneM2M/CSE/GEN/CRE/002_CSR</i>
		<i>TP/oneM2M/CSE/GEN/CRE/002_SPR</i>
		<i>TP/oneM2M/CSE/GEN/CRE/002_ABS</i>
		<i>TP/oneM2M/CSE/GEN/UPD/002_CSR</i>
		<i>TP/oneM2M/CSE/GEN/UPD/002_SPR</i>
		<i>TP/oneM2M/CSE/GEN/UPD/002_ABS</i>
		<i>TP/oneM2M/CSE/GEN/RET/002_CSR</i>
		<i>TP/oneM2M/CSE/GEN/RET/002_SPR</i>
		<i>TP/oneM2M/CSE/GEN/RET/002_ABS</i>
		<i>TP/oneM2M/CSE/GEN/DEL/002_CSR</i>
		<i>TP/oneM2M/CSE/GEN/DEL/002_SPR</i>
		<i>TP/oneM2M/CSE/GEN/DEL/002_ABS</i>
		<i>TP/oneM2M/CSE/GEN/CRE/003_CSR</i>
		<i>TP/oneM2M/CSE/GEN/CRE/003_SPR</i>
		<i>TP/oneM2M/CSE/GEN/CRE/003_ABS</i>
		<i>TP/oneM2M/CSE/GEN/UPD/003_CSR</i>
		<i>TP/oneM2M/CSE/GEN/UPD/003_SPR</i>
		<i>TP/oneM2M/CSE/GEN/UPD/003_ABS</i>
		<i>TP/oneM2M/CSE/GEN/RET/003_CSR</i>
		<i>TP/oneM2M/CSE/GEN/RET/003_SPR</i>
		<i>TP/oneM2M/CSE/GEN/RET/003_ABS</i>
		<i>TP/oneM2M/CSE/GEN/DEL/003_CSR</i>
		<i>TP/oneM2M/CSE/GEN/DEL/003_SPR</i>
		<i>TP/oneM2M/CSE/GEN/DEL/003_ABS</i>
		<i>TP/oneM2M/CSE/GEN/CRE/002_CSR</i>
		<i>TP/oneM2M/CSE/GEN/CRE/004_SPR</i>
		<i>TP/oneM2M/CSE/GEN/CRE/004_ABS</i>
		<i>TP/oneM2M/CSE/GEN/UPD/004_CSR</i>
		<i>TP/oneM2M/CSE/GEN/UPD/004_SPR</i>
		<i>TP/oneM2M/CSE/GEN/UPD/004_ABS</i>
		<i>TP/oneM2M/CSE/GEN/RET/004_CSR</i>
		<i>TP/oneM2M/CSE/GEN/RET/004_SPR</i>
		<i>TP/oneM2M/CSE/GEN/RET/004_ABS</i>
		<i>TP/oneM2M/CSE/GEN/DEL/004_CSR</i>
		<i>TP/oneM2M/CSE/GEN/DEL/004_SPR</i>
		<i>TP/oneM2M/CSE/GEN/DEL/004_ABS</i>
CE/GEN/00002/00001	Support blocking request	<i>TP/oneM2M/CSE/RT/BR/001_XXX</i>

Feature ID	Description	Mapped Test Purposes
CE/GEN/00002/00002	Support of request with result content	<i>TP/oneM2M/CSE/DMR/CRE/015_XXX</i>
		<i>TP/oneM2M/CSE/DMR/CRE/016_XXX</i>
		<i>TP/oneM2M/CSE/DMR/CRE/017_XXX</i>
		<i>TP/oneM2M/CSE/DMR/CRE/018_XXX</i>
		<i>TP/oneM2M/CSE/DMR/CRE/019_XXX</i>
		<i>TP/oneM2M/CSE/DMR/CRE/020_XXX</i>
		<i>TP/oneM2M/CSE/DMR/RET/020_XXX</i>
		<i>TP/oneM2M/CSE/DMR/RET/021_XXX</i>
		<i>TP/oneM2M/CSE/DMR/RET/022_XXX</i>
		<i>TP/oneM2M/CSE/DMR/RET/023_XXX</i>
		<i>TP/oneM2M/CSE/DMR/RET/024_XXX</i>
		<i>TP/oneM2M/CSE/DMR/RET/025_XXX</i>
		<i>TP/oneM2M/CSE/DMR/UPD/019_XXX</i>
		<i>TP/oneM2M/CSE/DMR/UPD/020_XXX</i>
		<i>TP/oneM2M/CSE/DMR/UPD/021_XXX</i>
		<i>TP/oneM2M/CSE/DMR/UPD/022_XXX</i>
		<i>TP/oneM2M/CSE/DMR/DEL/011_XXX</i>
		<i>TP/oneM2M/CSE/DMR/DEL/012_XXX</i>
		<i>TP/oneM2M/CSE/DMR/DEL/013_XXX</i>
CE/GEN/00002/00004	Support non-blocking synchronous request handling	<i>TP/oneM2M/CSE/NBR/SYN/001_XXX</i>
		<i>TP/oneM2M/CSE/NBR/SYN/002_XXX</i>
		<i>TP/oneM2M/CSE/NBR/SYN/003_XXX</i>
CE/GEN/00002/00005	Support non-blocking asynchronous request handling	<i>TP/oneM2M/CSE/NBR/ASY/001_XXX</i>
		<i>TP/oneM2M/CSE/NBR/ASY/002_XXX</i>
		<i>TP/oneM2M/CSE/NBR/ASY/003_XXX</i>
		<i>TP/oneM2M/CSE/NBR/ASY/004_XXX</i>
		<i>TP/oneM2M/CSE/NBR/ASY/005_XXX</i>
CE/GEN/00002/00006	Support for transit CSE forwarding of requests and responses	<i>TP/oneM2M/CSE/DMR/001_XXX</i>
		<i>TP/oneM2M/CSE/DMR/002_XXX</i>
CE/REG/00001/00001	Support <CSEBase> resource.	<i>TP/oneM2M/CSE/REG/CRE/021</i>
		<i>TP/oneM2M/CSE/REG/RET/001</i>
		<i>TP/oneM2M/CSE/REG/RET/008</i>
		<i>TP/oneM2M/CSE/REG/UPD/001</i>
		<i>TP/oneM2M/CSE/REG/DEL/001</i>
CE/REG/00001/00002	Support the cseType attribute of <CSEBase>	<i>TP/oneM2M/CSE/REG/RET/002_CST</i>
CE/REG/00001/00003	Support the nodeLink attribute of <CSEBase>	<i>TP/oneM2M/CSE/REG/RET/005</i>
		<i>TP/oneM2M/CSE/REG/RET/002_NL</i>

Feature ID	Description	Mapped Test Purposes
CE/REG/00002/00001	Support <AE> resource	<i>TP/oneM2M/CSE/REG/CRE/016</i> <i>TP/oneM2M/CSE/REG/CRE/017_API</i> <i>TP/oneM2M/CSE/REG/CRE/017_RR</i> <i>TP/oneM2M/CSE/REG/RET/003</i> <i>TP/oneM2M/CSE/REG/DEL/003</i> <i>TP/oneM2M/CSE/DMR/RET/013_AE</i> <i>TP/oneM2M/CSE/DMR/UPD/016_AE/ET</i> <i>TP/oneM2M/CSE/DMR/UPD/016_AE/RR</i>
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’.	<i>TP/oneM2M/CSE/REG/CRE/004</i> <i>TP/oneM2M/CSE/REG/CRE/011</i> <i>TP/oneM2M/CSE/REG/CRE/022</i> <i>TP/oneM2M/CSE/REG/CRE/023</i>
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’.	<i>TP/oneM2M/CSE/REG/CRE/020</i>
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.	<i>TP/oneM2M/CSE/REG/CRE/032</i>
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	<i>TP/oneM2M/CSE/REG/CRE/005</i> <i>TP/oneM2M/CSE/REG/CRE/006</i> <i>TP/oneM2M/CSE/REG/CRE/007</i> <i>TP/oneM2M/CSE/REG/CRE/031</i> <i>TP/oneM2M/CSE/REG/DEL/005</i> <i>TP/oneM2M/CSE/REG/DEL/006</i> <i>TP/oneM2M/CSE/REG/DEL/007</i>
CE/DIS/00001/00006	Support discovery with filterCriteria (labels)	<i>AE</i> <i>TP/oneM2M/CSE/REG/CRE/012_AE/LBL</i> <i>TP/oneM2M/CSE/REG/RET/004_LBL</i> <i>TP/oneM2M/CSE/DMR/UPD/015_AE/LBL</i>

Feature ID	Description	Mapped Test Purposes
		<i>remoteCSE</i>
		<i>TP/oneM2M/CSE/REG/CRE/013_LBL</i>
		<i>TP/oneM2M/CSE/REG/CRE/028_LBL</i>
		<i>TP/oneM2M/CSE/REG/RET/007_LBL</i>
		<i>TP/oneM2M/CSE/REG/UPD/002_LBL</i>
		<i>container</i>
		<i>TP/oneM2M/CSE/DMR/CRE/012_CNT/LBL</i>
		<i>TP/oneM2M/CSE/DMR/UPD/014_CNT/LBL</i>
		<i>TP/oneM2M/CSE/DMR/UPD/015_CNT/LBL</i>
		<i>contentInstance</i>
		<i>TP/oneM2M/CSE/DMR/CRE/012_CIN/LBL</i>
		<i>subscription</i>
		<i>TP/oneM2M/CSE/DMR/CRE/012_SUB/LBL</i>
		<i>TP/oneM2M/CSE/DMR/UPD/014_SUB/LBL</i>
		<i>TP/oneM2M/CSE/DMR/UPD/015_SUB/LBL</i>
		<i>accessControlPolicy</i>
		<i>TP/oneM2M/CSE/DMR/CRE/012_ACP/LBL</i>
		<i>TP/oneM2M/CSE/DMR/UPD/014_ACP/LBL</i>
		<i>TP/oneM2M/CSE/DMR/UPD/015_ACP/LBL</i>
		<i>group</i>
		<i>TP/oneM2M/CSE/DMR/UPD/015_GRP/LBL</i>
		<i>remoteCSE</i>
		<i>TP/oneM2M/CSE/REG/CRE/026_LBL</i>
		<i>TP/oneM2M/CSE/REG/UPD/003_LBL</i>
		<i>TP/oneM2M/CSE/DMR/UPD/015_CSR/LBL\</i>
CE/REG/00002/00007	Support the applicationName attribute of <AE> resource	<i>TP/oneM2M/CSE/REG/CRE/012_AE/APN</i> <i>TP/oneM2M/CSE/REG/RET/004_APN</i> <i>TP/oneM2M/CSE/DMR/UPD/015_AE/APN</i>
CE/REG/00002/00008	Support the pointOfAccess attribute of <AE> resource	<i>TP/oneM2M/CSE/REG/CRE/012_AE/POA</i> <i>TP/oneM2M/CSE/REG/RET/004_POA</i> <i>TP/oneM2M/CSE/DMR/UPD/015_AE/POA</i>
CE/REG/00002/00009	AE registration with pre-assigned AE-ID	<i>IN-CSE</i> <i>TP/oneM2M/CSE/REG/CRE/001_CAE</i> <i>TP/oneM2M/CSE/REG/CRE/001_SAE</i> <i>TP/oneM2M/CSE/REG/CRE/002_CAE</i> <i>TP/oneM2M/CSE/REG/CRE/002_SAE</i> <i>TP/oneM2M/CSE/REG/CRE/009</i> <i>TP/oneM2M/CSE/REG/CRE/029</i> <i>MN-CSE</i> <i>TP/oneM2M/CSE/REG/CRE/003</i> <i>TP/oneM2M/CSE/REG/CRE/008</i> <i>TP/oneM2M/CSE/REG/CRE/010</i>

Feature ID	Description	Mapped Test Purposes
CE/REG/00004/00001	Support <remoteCSE> resource with attributes multiplicity equals 1[1]	<i>TP/oneM2M/CSE/REG/CRE/018</i> <i>TP/oneM2M/CSE/REG/CRE/019</i> <i>TP/oneM2M/CSE/REG/CRE/025</i> <i>TP/oneM2M/CSE/REG/RET/006</i> <i>TP/oneM2M/CSE/REG/RET/010</i> <i>TP/oneM2M/CSE/REG/DEL/002</i> <i>TP/oneM2M/CSE/DMR/UPD/016_CSR/ET</i> <i>TP/oneM2M/CSE/DMR/UPD/016_CSR/RR</i>
CE/REG/00004/00002	Support the cseType attribute of <remoteCSE> resource	<i>TP/oneM2M/CSE/REG/CRE/013_CST</i> <i>TP/oneM2M/CSE/REG/RET/007_CST</i> <i>TP/oneM2M/CSE/REG/CRE/027</i> <i>(MN only)</i>
CE/REG/00004/00003	Support the pointOfAccess attribute of <remoteCSE> resource	<i>TP/oneM2M/CSE/REG/CRE/013_POA</i> <i>TP/oneM2M/CSE/REG/CRE/028_POA</i> <i>TP/oneM2M/CSE/REG/RET/007_POA</i> <i>TP/oneM2M/CSE/REG/UPD/002_POA</i>
CE/REG/00004/00004	Support the nodeLink attribute of <remoteCSE> resource	<i>TP/oneM2M/CSE/REG/CRE/013_NL</i> <i>TP/oneM2M/CSE/REG/CRE/028_NL</i> <i>TP/oneM2M/CSE/REG/RET/007_NL</i> <i>TP/oneM2M/CSE/REG/UPD/002_NL</i>
CE/REG/00005/00001	CSE Registration/De-registration	<i>TP/oneM2M/CSE/REG/CRE/024</i> <i>TP/oneM2M/CSE/DMR/RET/013_CSR</i> <i>TP/oneM2M/CSE/REG/UPD/003_ET</i> <i>TP/oneM2M/CSE/REG/DEL/004</i>
CE/REG/00005/00001	Create the <remoteCSE> with resourceName attribute	<i>TP/oneM2M/CSE/REG/CRE/026_RN</i>
CE/REG/00005/00001	Create the <remoteCSE> with expirationTime attribute	<i>TP/oneM2M/CSE/REG/CRE/026_ET</i>
CE/REG/00005/00002	Create the <remoteCSE> with cseType attribute	<i>TP/oneM2M/CSE/REG/CRE/026_CST</i>
CE/REG/00005/00003	Create the <remoteCSE> with pointOfAccess attribute	<i>TP/oneM2M/CSE/REG/CRE/026_POA</i>
CE/REG/00005/00005	Create the <remoteCSE> with nodeLink attribute	<i>TP/oneM2M/CSE/REG/CRE/026_NL</i>
CE/REG/00005/00006	Update the <remoteCSE> with pointOfAccess attribute	<i>TP/oneM2M/CSE/REG/UPD/003_POA</i> <i>TP/oneM2M/CSE/DMR/UPD/015_CSR/POA</i>

Feature ID	Description	Mapped Test Purposes
CE/REG/00005/00007	Update the <remoteCSE> with requestReachability	<i>TP/oneM2M/CSE/REG/UPD/003_RR</i>
CE/REG/00005/00008	Update the <remoteCSE> with nodeLink attribute	<i>TP/oneM2M/CSE/REG/UPD/003_NL</i> <i>TP/oneM2M/CSE/DMR/UPD/015_CSR/NL</i>
CE/REG/00005/00009	Retrieve the <remoteCSE> resource	<i>TP/oneM2M/CSE/REG/RET/009</i>
CE/DMR/00001/00001	Support <container> resource with attributes multiplicity equals 1[1]	<i>TP/oneM2M/CSE/DMR/CRE/001_CNT/CB</i> <i>TP/oneM2M/CSE/DMR/CRE/001_CNT/AE</i> <i>TP/oneM2M/CSE/DMR/CRE/001_CNT/CNT</i> <i>TP/oneM2M/CSE/DMR/CRE/002_CNT</i> <i>TP/oneM2M/CSE/DMR/CRE/003_CNT</i> <i>TP/oneM2M/CSE/DMR/CRE/007_CNT/CIN</i> <i>TP/oneM2M/CSE/DMR/CRE/008_CNT/CIN</i> <i>TP/oneM2M/CSE/DMR/CRE/009</i> <i>TP/oneM2M/CSE/DMR/CRE/010</i> <i>TP/oneM2M/CSE/DMR/CRE/011</i> <i>TP/oneM2M/CSE/DMR/CRE/013_CNT_CIN</i> <i>TP/oneM2M/CSE/DMR/CRE/014_CNT_CIN</i> <i>TP/oneM2M/CSE/DMR/RET/001_CNT</i> <i>TP/oneM2M/CSE/DMR/RET/013_CNT</i> <i>TP/oneM2M/CSE/DMR/UPD/001_CNT/LBL</i> <i>TP/oneM2M/CSE/DMR/UPD/002_CNT/LBL</i> <i>TP/oneM2M/CSE/DMR/UPD/003_CNT/LBL</i> <i>TP/oneM2M/CSE/DMR/UPD/004_CNT/ET/MNI/LE</i> <i>TP/oneM2M/CSE/DMR/UPD/005_CNT/EXC</i> <i>TP/oneM2M/CSE/DMR/UPD/007_CNT/CT</i> <i>TP/oneM2M/CSE/DMR/UPD/008_CNT/ET</i> <i>TP/oneM2M/CSE/DMR/UPD/009_CNT/LBL</i> <i>TP/oneM2M/CSE/DMR/UPD/010_CNT</i> <i>TP/oneM2M/CSE/DMR/UPD/016_CNT/ET</i> <i>TP/oneM2M/CSE/DMR/DEL/001_CNT</i> <i>TP/oneM2M/CSE/DMR/DEL/005</i> <i>TP/oneM2M/CSE/DMR/DEL/006</i>
CE/DMR/00002/00001	Support the creator attribute of <container> resource	<i>TP/oneM2M/CSE/DMR/CRE/012_CNT/CR</i>
CE/DMR/00001/00002	Support the maxNrOfInstances attribute of <container> resource	<i>TP/oneM2M/CSE/DMR/CRE/005_MNI</i> <i>TP/oneM2M/CSE/DMR/CRE/006_CNT/MNI</i> <i>TP/oneM2M/CSE/DMR/CRE/012_CNT/MNI</i> <i>TP/oneM2M/CSE/DMR/UPD/014_CNT/MNI</i> <i>TP/oneM2M/CSE/DMR/UPD/015_CNT/MNI</i>

Feature ID	Description	Mapped Test Purposes
CE/DMR/00001/00003	Support the maxByteSize attribute of <container> resource	<i>TP/oneM2M/CSE/DMR/CRE/005_MBS</i> <i>TP/oneM2M/CSE/DMR/CRE/006_CNT/MBS</i> <i>TP/oneM2M/CSE/DMR/CRE/012_CNT/MBS</i> <i>TP/oneM2M/CSE/DMR/CRE/013_CNT/CIN</i> <i>TP/oneM2M/CSE/DMR/UPD/014_CNT/MBS</i> <i>TP/oneM2M/CSE/DMR/UPD/015_CNT/MBS</i>
CE/DMR/00001/00004	Support the maxInstanceAge attribute of <container> resource	<i>TP/oneM2M/CSE/DMR/CRE/005_MIA</i> <i>TP/oneM2M/CSE/DMR/CRE/006_CNT/MIA</i> <i>TP/oneM2M/CSE/DMR/CRE/012_CNT/MIA</i> <i>TP/oneM2M/CSE/DMR/UPD/014_CNT/MIA</i> <i>TP/oneM2M/CSE/DMR/UPD/015_CNT/MIA</i>
CE/DMR/00002/00001	Support <contentInstance> resource with attributes multiplicity equals 1[1]	<i>TP/oneM2M/CSE/DMR/CRE/001_CIN/CNT</i> <i>TP/oneM2M/CSE/DMR/RET/001_CIN</i> <i>TP/oneM2M/CSE/DMR/UPD/011_CIN/CNT</i> <i>TP/oneM2M/CSE/DMR/DEL/001_CIN</i>
CE/DMR/00002/00001	Support the creator attribute of <contentInstance> resource	<i>TP/oneM2M/CSE/DMR/CRE/012_CIN/CR</i>
CE/DMR/00002/00002	Support the contentInfo attribute of <contentInstance> resource	<i>TP/oneM2M/CSE/DMR/CRE/012_CIN/CNF</i>
CE/DMR/00002/00004	Retrieve and Delete of latest <contentInstance> resource by <latest> virtual resource	<i>TP/oneM2M/CSE/DMR/RET/012</i> <i>TP/oneM2M/CSE/DMR/UPD/012</i> <i>TP/oneM2M/CSE/DMR/DEL/007</i>
CE/DMR/00002/00005	Retrieve and Delete of oldest <contentInstance> resource by <oldest> virtual resource	<i>TP/oneM2M/CSE/DMR/RET/010</i> <i>TP/oneM2M/CSE/DMR/UPD/013</i> <i>TP/oneM2M/CSE/DMR/DEL/009</i>
CE/DMR/00003/00001	Support <flexcontainer> resource with attributes multiplicity equals 1 Support CRUD of <flexcontainer> resource	<i>TP/oneM2M/CSE/DMR/CRE/002_FLXC</i>

Feature ID	Description	Mapped Test Purposes
CE/SUB/00001/00001	The Support of <subscription> resource with attributes multiplicity equals 1[1]	<i>TP/oneM2M/CSE/DMR/CRE/001_SUB/CB</i> <i>TP/oneM2M/CSE/DMR/CRE/001_SUB/AE</i> <i>TP/oneM2M/CSE/DMR/CRE/001_SUB/CNT</i> <i>TP/oneM2M/CSE/DMR/CRE/001_SUB/ACP</i> <i>TP/oneM2M/CSE/DMR/CRE/001_SUB/CSR</i> <i>TP/oneM2M/CSE/DMR/CRE/001_SUB/GRP</i> <i>TP/oneM2M/CSE/DMR/CRE/002_SUB</i> <i>TP/oneM2M/CSE/DMR/CRE/003_SUB</i> <i>TP/oneM2M/CSE/DMR/RET/001_SUB</i> <i>TP/oneM2M/CSE/DMR/RET/013_SUB</i> <i>TP/oneM2M/CSE/DMR/UPD/001_SUB/LBL</i> <i>TP/oneM2M/CSE/DMR/UPD/002_SUB/LBL</i> <i>TP/oneM2M/CSE/DMR/UPD/003_SUB/LBL</i> <i>TP/oneM2M/CSE/DMR/UPD/004_SUB/ET/LBL/EX</i> <i>TP/oneM2M/CSE/DMR/UPD/005_SUB/MNI</i> <i>TP/oneM2M/CSE/DMR/UPD/007_SUB/CT</i> <i>TP/oneM2M/CSE/DMR/UPD/008_SUB/ET</i> <i>TP/oneM2M/CSE/DMR/UPD/009_SUB/LBL</i> <i>TP/oneM2M/CSE/DMR/UPD/016_SUB/ET</i> <i>TP/oneM2M/CSE/DMR/UPD/016_SUB/NU</i> <i>TP/oneM2M/CSE/DMR/UPD/016_SUB/NCT</i> <i>TP/oneM2M/CSE/DMR/DEL/001_SUB</i> <i>TP/oneM2M/CSE/DMR/CRE/012_SUB/CR</i>
CE/SUB/00001/00001	Support the creator attribute of <subscription> resource	
CE/SUB/00004/00001	Support the subscriberURI attribute of <subscription> resource	<i>TP/oneM2M/CSE/DMR/CRE/012_SUB/SU</i>
CE/SUB/00004/00001	Notify the address indicated in notificationURI with notification elements multiplicity equals 1[2]	<i>TP/oneM2M/CSE/SUB/CRE/001_SUB</i> <i>TP/oneM2M/CSE/SUB/CRE/001_CIN</i> <i>TP/oneM2M/CSE/SUB/CRE/003</i> <i>TP/oneM2M/CSE/SUB/CRE/005</i>

Feature ID	Description	Mapped Test Purposes
CE/SUB/00004/00002	Notify with notification-Event/representation set in the notification	TP/oneM2M/CSE/SUB/CRE/005 TP/oneM2M/CSE/SUB/UPD/001 TP/oneM2M/CSE/SUB/UPD/002 TP/oneM2M/CSE/SUB/UPD/003 TP/oneM2M/CSE/SUB/UPD/004 TP/oneM2M/CSE/SUB/UPD/005 TP/oneM2M/CSE/SUB/UPD/006 TP/oneM2M/CSE/SUB/UPD/007 TP/oneM2M/CSE/SUB/UPD/008 TP/oneM2M/CSE/SUB/UPD/009 TP/oneM2M/CSE/SUB/DEL/001 TP/oneM2M/CSE/SUB/DEL/002 TP/oneM2M/CSE/SUB/DEL/003 TP/oneM2M/CSE/SUB/NTF/001 TP/oneM2M/CSE/SUB/NTF/002 TP/oneM2M/CSE/SUB/NTF/003
CE/SUB/00004/00003	Notify with creator set in the notification	TP/oneM2M/CSE/SUB/CRE/004
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 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

Feature ID	Description	Mapped Test Purposes
CE/SEC/00002/00001	Support accessControlPolicyIDs attribute for <resource> that the Implementation supports.	<i>TP/oneM2M/CSE/DMR/CRE/012_SUB/ACPI</i> <i>TP/oneM2M/CSE/DMR/CRE/012_CNT/ACPI</i> <i>TP/oneM2M/CSE/DMR/UPD/014_CNT/ACPI</i> <i>TP/oneM2M/CSE/DMR/UPD/015_AE/ACPI</i> <i>TP/oneM2M/CSE/DMR/UPD/015_CNT/ACPI</i> <i>TP/oneM2M/CSE/DMR/UPD/015_SUB/ACPI</i> <i>TP/oneM2M/CSE/DMR/UPD/015_GRP/ACPI</i> <i>TP/oneM2M/CSE/SEC/ACP/UPD/001</i> <i>TP/oneM2M/CSE/SEC/ACP/UPD/002</i>

Feature ID	Description	Mapped Test Purposes
CE/SEC/00002/00002	Support access control decision and enforcement making on the Hosting CSE	<i>TP/oneM2M/CSE/DMR/CRE/004_CNT</i>
		<i>TP/oneM2M/CSE/DMR/CRE/004_ACP</i>
		<i>TP/oneM2M/CSE/DMR/CRE/004_SUB</i>
		<i>TP/oneM2M/CSE/DMR/CRE/004_GRP</i>
		<i>TP/oneM2M/CSE/DMR/CRE/004_PCH</i>
		<i>TP/oneM2M/CSE/DMR/RET/003_ACPTP/oneM2M/</i>
		<i>TP/oneM2M/CSE/DMR/RET/003_SUB</i>
		<i>TP/oneM2M/CSE/DMR/RET/014_ACP</i>
		<i>TP/oneM2M/CSE/DMR/RET/014_AE</i>
		<i>TP/oneM2M/CSE/DMR/RET/014_CNT</i>
		<i>TP/oneM2M/CSE/DMR/RET/014_CSR</i>
		<i>TP/oneM2M/CSE/DMR/RET/014_SUB</i>
		<i>TP/oneM2M/CSE/DMR/RET/014_GRP</i>
		<i>TP/oneM2M/CSE/DMR/UPD/006_CNT/LBL</i>
		<i>TP/oneM2M/CSE/DMR/UPD/006_ACP/LBL</i>
		<i>TP/oneM2M/CSE/DMR/UPD/006_SUB/LBL</i>
		<i>TP/oneM2M/CSE/DMR/DEL/002_CNT</i>
		<i>TP/oneM2M/CSE/DMR/DEL/002_ACP</i>
		<i>TP/oneM2M/CSE/DMR/DEL/002_SUB</i>
		<i>TP/oneM2M/CSE/DMR/DEL/002_GRP</i>
		<i>TP/oneM2M/CSE/SUB/CRE/002</i>
		<i>TP/oneM2M/CSE/SEC/ACP/001_CRE</i>
		<i>TP/oneM2M/CSE/SEC/ACP/001_UPD</i>
		<i>TP/oneM2M/CSE/SEC/ACP/001_RET</i>
		<i>TP/oneM2M/CSE/SEC/ACP/001_DEL</i>
		<i>TP/oneM2M/CSE/SEC/ACP/002_CRE</i>
		<i>TP/oneM2M/CSE/SEC/ACP/002_UPD</i>
		<i>TP/oneM2M/CSE/SEC/ACP/002_RET</i>
		<i>TP/oneM2M/CSE/SEC/ACP/002_DEL</i>
		<i>TP/oneM2M/CSE/SEC/ACP/003_CRE</i>
		<i>TP/oneM2M/CSE/SEC/ACP/003_UPD</i>
		<i>TP/oneM2M/CSE/SEC/ACP/003_RET</i>
		<i>TP/oneM2M/CSE/SEC/ACP/003_DEL</i>
		<i>TP/oneM2M/CSE/SEC/ACP/004_CRE</i>
		<i>TP/oneM2M/CSE/SEC/ACP/004_UPD</i>
		<i>TP/oneM2M/CSE/SEC/ACP/004_RET</i>
		<i>TP/oneM2M/CSE/SEC/ACP/004_DEL</i>
		<i>TP/oneM2M/CSE/SEC/ACP/005_CRE</i>
		<i>TP/oneM2M/CSE/SEC/ACP/005_UPD</i>
		<i>TP/oneM2M/CSE/SEC/ACP/005_RET</i>
		<i>TP/oneM2M/CSE/SEC/ACP/005_DEL</i>
		<i>TP/oneM2M/CSE/SEC/ACP/006_CRE</i>
		<i>TP/oneM2M/CSE/SEC/ACP/006_UPD</i>
		<i>TP/oneM2M/CSE/SEC/ACP/006_RET</i>
		<i>TP/oneM2M/CSE/SEC/ACP/006_DEL</i>
		<i>TP/oneM2M/CSE/SEC/ACP/007_CRE</i>
		<i>TP/oneM2M/CSE/SEC/ACP/007_UPD</i>
		<i>TP/oneM2M/CSE/SEC/ACP/007_RET</i>
		<i>TP/oneM2M/CSE/SEC/ACP/007_DEL</i>
		<i>TP/oneM2M/CSE/SEC/ACP/008_CRE</i>
		<i>TP/oneM2M/CSE/SEC/ACP/008_UPD</i>
		<i>TP/oneM2M/CSE/SEC/ACP/008_RET</i>
		<i>TP/oneM2M/CSE/SEC/ACP/008_DEL</i>
		<i>TP/oneM2M/CSE/SEC/ACP/009_CRE</i>

Feature ID	Description	<i>Mapped Test Purposes</i>
CE/DIS/00001/00001	Support the Discovery request with filterUsage equals to “Discovery”	<i>TP/oneM2M/CSE/DIS/001</i> <i>TP/oneM2M/CSE/DIS/004</i> <i>TP/oneM2M/CSE/DIS/005</i> <i>TP/oneM2M/CSE/DIS/006</i>
CE/DIS/00001/00002	Support discovery with filterCriteria (createdBefore, createdAfter, modifiedSince, unmodifiedSince, stateTagSmaller, stateTagBigger, expireBefore, expireAfter, labels, resourceType, sizeAbove, sizeBelow, contentType, limit, attribute)	<i>TP/oneM2M/CSE/DIS/002</i> <i>TP/oneM2M/CSE/DIS/003</i> <i>TP/oneM2M/CSE/DIS/007</i> <i>TP/oneM2M/CSE/DIS/008</i> <i>TP/oneM2M/CSE/DIS/009</i>
CE/DIS/00001/00003	Support discovery with filterCriteria (level, offset)	
CE/DIS/00001/00004	Support discovery with content filter (contentFilterSyntax, contentFilterQuery of filterCriteria)	
CE/DIS/00001/00005	Support discovery with filterCriteria (filterOperation)	

Feature ID	Description	Mapped Test Purposes
CE/GMG/00001/00001	Support <group> resource with MIXED memberType	<i>TP/oneM2M/CSE/DMR/CRE/001_GRP/CB</i>
		<i>TP/oneM2M/CSE/DMR/CRE/001_GRP/AE</i>
		<i>TP/oneM2M/CSE/DMR/CRE/002_GRP</i>
		<i>TP/oneM2M/CSE/DMR/CRE/003_GRP</i>
		<i>TP/oneM2M/CSE/DMR/RET/001_GRP</i>
		<i>TP/oneM2M/CSE/DMR/RET/013_GRP</i>
		<i>TP/oneM2M/CSE/DMR/UPD/001_GRP/LBL</i>
		<i>TP/oneM2M/CSE/DMR/UPD/002_GRP/LBL</i>
		<i>TP/oneM2M/CSE/DMR/UPD/003_GRP/LBL</i>
		<i>TP/oneM2M/CSE/DMR/UPD/004_GRP/ET/GN/LBL</i>
		<i>TP/oneM2M/CSE/DMR/UPD/005_GRP/EXC</i>
		<i>TP/oneM2M/CSE/DMR/UPD/006_GRP/LBL</i>
		<i>TP/oneM2M/CSE/DMR/UPD/007_GRP/CT</i>
		<i>TP/oneM2M/CSE/DMR/UPD/008_GRP/ET</i>
		<i>TP/oneM2M/CSE/DMR/UPD/009_GRP/LBL</i>
		<i>TP/oneM2M/CSE/DMR/UPD/016_GRP/ET</i>
		<i>TP/oneM2M/CSE/DMR/UPD/016_GRP/MNM</i>
		<i>TP/oneM2M/CSE/DMR/UPD/016_GRP/MID</i>
		<i>TP/oneM2M/CSE/DMR/DEL/001_GRP</i>
		<i>TP/oneM2M/CSE/DMR/DEL/002_GRP</i>
		<i>TP/oneM2M/CSE/GMG/CRE/001</i>
		<i>TP/oneM2M/CSE/GMG/CRE/003</i>
		<i>TP/oneM2M/CSE/GMG/UPD/002</i>
		<i>TP/oneM2M/CSE/GMG/UPD/007</i>
		<i>TP/oneM2M/CSE/GMG/UPD/008</i>
		<i>TP/oneM2M/CSE/DMR/UPD/015_GRP/GN</i>
CE/GMG/00002/00001	Support <group> resource with single specific resource types	<i>TP/oneM2M/CSE/GMG/CRE/002</i>
		<i>TP/oneM2M/CSE/GMG/CRE/004</i>
		<i>TP/oneM2M/CSE/GMG/CRE/005</i>
		<i>TP/oneM2M/CSE/GMG/CRE/006</i>
		<i>TP/oneM2M/CSE/GMG/CRE/007</i>
		<i>TP/oneM2M/CSE/GMG/UPD/001</i>
		<i>TP/oneM2M/CSE/GMG/UPD/003</i>
		<i>TP/oneM2M/CSE/GMG/UPD/004</i>
		<i>TP/oneM2M/CSE/GMG/UPD/005</i>
		<i>TP/oneM2M/CSE/GMG/UPD/006</i>
		<i>TP/oneM2M/CSE/GMG/UPD/009</i>
		<i>TP/oneM2M/CSE/GMG/UPD/010</i>

Feature ID	Description	Mapped Test Purposes
CE/GMG/00003/00001	Fan out of request to all members and aggregate member responses	<i>TP/oneM2M/CSE/GMG/RET/001</i>
		<i>TP/oneM2M/CSE/GMG/001_CRE</i>
		<i>TP/oneM2M/CSE/GMG/001_RET</i>
		<i>TP/oneM2M/CSE/GMG/001_UPD</i>
		<i>TP/oneM2M/CSE/GMG/001_DEL</i>
		<i>TP/oneM2M/CSE/GMG/002_CRE</i>
		<i>TP/oneM2M/CSE/GMG/002_RET</i>
		<i>TP/oneM2M/CSE/GMG/002_UPD</i>
		<i>TP/oneM2M/CSE/GMG/002_DEL</i>
		<i>TP/oneM2M/CSE/GMG/003_CRE</i>
		<i>TP/oneM2M/CSE/GMG/003_RET</i>
		<i>TP/oneM2M/CSE/GMG/003_UPD</i>
		<i>TP/oneM2M/CSE/GMG/003_DEL</i>
		<i>TP/oneM2M/CSE/GMG/004_CRE</i>
		<i>TP/oneM2M/CSE/GMG/004_RET</i>
		<i>TP/oneM2M/CSE/GMG/004_UPD</i>
		<i>TP/oneM2M/CSE/GMG/004_DEL</i>
		<i>TP/oneM2M/CSE/GMG/005_CRE</i>
		<i>TP/oneM2M/CSE/GMG/005_RET</i>
		<i>TP/oneM2M/CSE/GMG/005_UPD</i>
		<i>TP/oneM2M/CSE/GMG/005_DEL</i>
		<i>TP/oneM2M/CSE/GMG/006_CRE</i>
		<i>TP/oneM2M/CSE/GMG/006_RET</i>
		<i>TP/oneM2M/CSE/GMG/006_UPD</i>
		<i>TP/oneM2M/CSE/GMG/006_DEL</i>
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 membersAccessControlPolicyIDs attribute of <group> resource	<i>TP/oneM2M/CSE/DMR/UPD/015_GRP/MACP</i>

Feature ID	Description	Mapped Test Purposes
CE/PCH/00001/00001	Polling Channel resource management	<i>TP/oneM2M/CSE/DMR/CRE/001_PCH/AE</i>
		<i>TP/oneM2M/CSE/DMR/CRE/002_PCH</i>
		<i>TP/oneM2M/CSE/DMR/CRE/003_PCH</i>
		<i>TP/oneM2M/CSE/DMR/RET/001_PCH</i>
		<i>TP/oneM2M/CSE/DMR/UPD/001_PCH/LBL</i>
		<i>TP/oneM2M/CSE/DMR/UPD/002_PCH/LBL</i>
		<i>TP/oneM2M/CSE/DMR/UPD/003_PCH</i>
		<i>TP/oneM2M/CSE/DMR/UPD/007_PCH/CT</i>
		<i>TP/oneM2M/CSE/DMR/UPD/009_PCH/EXC</i>
		<i>TP/oneM2M/CSE/DMR/DEL/001_PCH</i>
CE/PCH/00002/00001	Long Polling Procedure	<i>TP/oneM2M/CSE/PCH/001</i>
		<i>TP/oneM2M/CSE/PCH/002</i>
		<i>TP/oneM2M/CSE/PCH/003</i>
		<i>TP/oneM2M/CSE/PCH/004</i>
		<i>TP/oneM2M/CSE/PCH/005_XXX</i>
		<i>TP/oneM2M/CSE/PCH/006</i>

Table 31: Table A-2: Mapping of feature to Test Purposes for AE

Feature ID	Description	Mapped Test Purposes
<i>AE/GEN/00001</i>	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
<i>AE/GEN/00002/00001</i>	Support create request	TP/oneM2M/AE/DMR/CRE/001
<i>AE/DMR/00002/00001</i>	Support create contentInstance	TP/oneM2M/AE/DMR/CRE/002
<i>AE/REG/00002/00001</i>	Create <AE>	TP/oneM2M/AE/REG//CRE/001
<i>AE/GEN/00003/00001</i>	Create <AE> with resourceName	TP/oneM2M/AE/REG/CRE/002_RR
		TP/oneM2M/AE/REG/CRE/002_RN
<i>AE/GEN/00003/00002</i>	Create <AE> with expirationTime	TP/oneM2M/AE/REG/CRE/002_ET
<i>AE/DIS/00001/00017</i>	Create <AE> with labels	TP/oneM2M/AE/REG/CRE/002_LBL
<i>AE/REG/00002/00002</i>	Create <AE> with applicationName	TP/oneM2M/AE/REG/CRE/002_APN
<i>AE/DMR/00001/00001</i>	Create <container> with no attribute set	TP/oneM2M/AE/DMR/CRE/001
<i>AE/GEN/00003/00001</i>	Create <container> with <i>resourceName</i>	TP/oneM2M/AE/DMR/CRE/004_RN

Feature ID	Description	Mapped Test Purposes
<i>AE/GEN/00003/00002</i>	Create <container> with <i>expirationTime</i>	TP/oneM2M/AE/DMR/CRE/004_ET
<i>AE/DIS/00001/00017</i>	Create <container> with <i>labels</i>	TP/oneM2M/AE/DMR/CRE/004_LBL
<i>AE/DMR/00001/00002</i>	Create <container> with <i>maxNrOfInstances</i>	TP/oneM2M/AE/DMR/CRE/004_MNI
<i>AE/DMR/00001/00003</i>	Create <container> with <i>maxByteSize</i>	TP/oneM2M/AE/DMR/CRE/004_MBS
<i>AE/DMR/00001/00004</i>	Create <container> with <i>maxInstanceAge</i>	TP/oneM2M/AE/DMR/CRE/004_MIA
<i>AE/GEN/00003/00001</i>	Create <contentInstance> with <i>resourceName</i>	TP/oneM2M/AE/DMR/CRE/003_RN
<i>AE/GEN/00003/00002</i>	Create <contentInstance> with <i>expirationTime</i>	TP/oneM2M/AE/DMR/CRE/003_ET
<i>AE/DIS/00001/00017</i>	Create <contentInstance> with <i>labels</i>	TP/oneM2M/AE/DMR/CRE/003_LBL
<i>AE/DMR/00002/00002</i>	Create <contentInstance> with <i>contentInfo</i>	TP/oneM2M/AE/DMR/CRE/003_CNF
<i>AE/REG/00002/00003</i>	Create <AE> with <i>pointOfAccess</i>	TP/oneM2M/AE/REG/CRE/002_POA
<i>AE/SUB/00001/00001</i>	Create <subscription> with mandatory attributes [2]	TP/oneM2M/AE/SUB/CRE/001
<i>AE/SUB/00004/00001</i>	Receiving a notification	
<i>GE/PCH/00001/00001</i>	Polling Channel resource management	
<i>GE/PCH/00001/00002</i>		
<i>GE/PCH/00001/00003</i>		
<i>GE/PCH/00002/00001</i>	Long Polling Procedure	
<i>AE/GEN/00002/00002</i>	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
<i>AE/GEN/00002/00003</i>	Support Update request targeting one resource	TP/oneM2M/AE/DMR/UPD/002_LBL\
<i>AE/GEN/00002/00004</i>	Support Delete request targeting one resource	TP/oneM2M/AE/DMR/DEL/003
<i>AE/REG/00001/00001</i>	The Retrieval of <CSEBase> resource	TP/oneM2M/AE/DMR/RET/001_CB
<i>AE/REG/00002/00004</i>	Create <AE> with <i>nodeLink</i>	TP/oneM2M/AE/REG/CRE/002_NL

Feature ID	Description	Mapped Test Purposes
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
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/00002/00001	Create <contentInstance> with mandatory attributes	TP/oneM2M/AE/DMR/CRE/002\
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

Feature ID	Description	Mapped Test Purposes
<i>AE/DMR/00002/00005</i>	Retrieve oldest <contentInstance> resource targeting the <oldest> resource	TP/oneM2M/AE/DMR/RET/002
<i>AE/DMR/00002/00006</i>	Retrieve latest <contentInstance> resource targeting the <latest> resource	TP/oneM2M/AE/DMR/RET/003\
<i>AE/DMR/00002/00007</i>	Delete <contentInstance>	TP/oneM2M/AE/DMR/DEL/004
<i>AE/DMR/00002/00008</i>	Delete oldest <contentInstance> resource targeting the <oldest> resource	TP/oneM2M/AE/DMR/DEL/001\
<i>AE/DMR/00002/00009</i>	Delete latest <contentInstance> resource targeting the <latest> resource	TP/oneM2M/AE/DMR/DEL/002\
<i>AE/REG/00002/00001</i>	Create <AE> with <i>App-IDattribute</i>	TP/oneM2M/AE/REG/CRE/002_API
VOID	Create <AE> with <i>ontologyRefattribute</i>	TP/oneM2M/AE/REG/CRE/002_OR
VOID	Update <AE> with <i>ontologyRefattribute</i>	TP/oneM2M/AE/DMR/UPD/001_OR
<i>AE/SEC/00001/00007</i>	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
<i>AE/SUB/00001/00002</i>	Create <subscription> with <i>labels</i>	TP/oneM2M/AE/SUB/CRE/002_LBL
<i>AE/SUB/00001/00005</i>	Create <subscription> with <i>subscriberURI</i>	TP/oneM2M/AE/SUB/CRE/002_SU
<i>AE/SEC/00001/00007</i>	Create <subscription> with <i>acpi</i>	TP/oneM2M/AE/SUB/CRE/002_ACPI
<i>AE/SUB/00002/00001</i>	Create <subscription> with <i>eventNotification- Criteria</i>	TP/oneM2M/AE/SUB/CRE/002_ENC
<i>AE/SUB/00002/00002</i>	Create <subscription> with <i>expirationCounter</i>	TP/oneM2M/AE/SUB/CRE/002_EXC
<i>AE/SUB/00003/00001</i>	Create <subscription> with <i>notificationFor- wardingURI</i>	TP/oneM2M/AE/SUB/CRE/002_NFU

Feature ID	Description	<i>Mapped Test Purposes</i>
<i>AE/SUB/00002/00009</i>	Create <subscription> with <i>notificationContentType</i>	TP/oneM2M/AE/SUB/CRE/002_NCT
<i>AE/SUB/00002/00010</i>	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

History

This clause shall be the last one in the document and list the main phases (all additional information will be removed at the publication stage).

Publication history

V3.2.0	14 Dec 2023	This baseline including agreed CR for markdown conversion: TDE-2023-0038R01-draft_updated_TS-0025_for_markdown_conversion
--------	-------------	--

Draft history (to be removed on publication)

V3.0.0	24 April 2019	Initial skeleton (based on V2.2.0)& Incorporated contributions: TDE-2019-0033R01-TS-0025-Add_Profile_for_UE_hosted_sensor
V3.1.0	06 June 2019	Incorporated contributions: TDE-2019-0088-TS-0025_Update_of_TP_mapping_R3 TDE-2019-0114-TS-0025_final_modifications_R3 TDE-2019-0115-TS-0025_Rel-3_Moving_ADN_TP_list_to_Annex
V3.2.1	27 Jun 2025	This baseline is markdown converted baseline
