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**oneM2M;
Test Suite Structure and Test Purposes;
(oneM2M TS-0018 version 2.13.1 Release 2)**



Reference

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Foreword

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

1 Scope

The present document specifies oneM2M test suite structure and test purposes that are designed to evaluate the conformity of oneM2M implementations to the oneM2M specifications. It also specifies:

- guidelines for description of test behaviours and definition of test purpose structure;
- notations to define a test purpose for conformance testing; and
- test configurations for conformance testing.

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.

- [1] ETSI TS 118 101: "oneM2M Functional Architecture" (oneM2M TS-0001).
- [2] ETSI TS 118 104: "oneM2M Service Layer Core Protocol Specification" (oneM2M TS-0004).
- [3] ETSI TS 118 115: "oneM2M Testing Framework" (oneM2M TS-0015).
- [4] oneM2M TS-0017: "Implementation Conformance Statements".
- [5] ETSI TS 118 110: "oneM2M MQTT-protocol-binding" (oneM2M TS-0010).

2.2 Informative references

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>.

3 Definition of terms, symbols and abbreviations

3.1 Terms

For the purposes of the present document, the terms given in ETSI TS 118 115 [3] Testing Framework and the following apply:

valid <OPERATION> Request: oneM2M Request primitive that only contains all mandatory primitive parameters with correct values which are not required to be explicitly specified in the test purpose

NOTE: If specific values need to be specified, parameters need to be explicitly indicated in the test purpose. Operation parameter is set to <OPERATION>.

valid Response: oneM2M Response primitive that only contains all mandatory primitive parameters with correct values which are not required to be explicitly specified in the test purpose

NOTE: If specific values need to be specified, parameters need to be explicitly indicated in the test purpose. Request Identifier parameter contains the Request Identifier value of the corresponding Request.

valid <ATTRIBUTE_NAME>: correct value for the <ATTRIBUTE_NAME> attribute which is not required to be explicitly specified in the test purpose

3.2 Symbols

Void.

3.3 Abbreviations

For the purposes of the present document, the abbreviations given in ETSI TS 118 101 [1] and the following apply:

| | |
|--------|--|
| ADN | Application Dedicated Node |
| ADN-AE | AE which resides in the Application Dedicated Node |
| AE | Application Entity |
| AE-ID | Application Entity-Identifier |
| APP-ID | APPLication IDentifier |
| ASN | Application Service Node |
| BR | BlockingRequest |
| CMDH | Communication Management and Delivery Handling |
| CSE | Common Service Entity |
| CSE-ID | Common Service Entity Identifier |
| CSF | Common Service Function |
| DIS | DIScovery |
| DMR | Data Management and Repository |
| DUT | Device Under Test |
| FLXC | FLeXContainer |
| FQDN | Fully Qualified Domain Name |
| GEN | GENeral capability |
| GMG | Group ManaGement |
| ICS | Implementation Conformance Statements |
| IN | Infrastructure Node |
| IN-CSE | CSE which resides in the Infrastructure Node |
| IP | Internet Protocol |
| IUT | Implementation Under Test |
| MA | MAandatory |
| MN | Middle Node |
| MN-CSE | CSE which resides in the Middle Node |
| NA | Not Applicable |
| NBA | NonBlockingrequestAsynch |
| NBR | NonBlockingRequest |
| NBS | NonBlockingrequestSynch |
| PCH | Request Message Polling |
| PICS | Protocol Implementation Conformance Statements |
| PX_POA | Protocol implementation eXtra information for testing_ PointOfAccess |
| PX_SRT | Protocol implementation eXtra information for testing_ SupportedResourceType |
| REG | REGistration |
| REQ | REQuest |
| RT | Response Type |
| RW | Read Write |
| SCEF | Service Capability Exposure Function |
| SEC | SECurity |
| SUB | SUBscription and Notification |
| SUT | System Under Test |
| TP | Test Purposes |

| | |
|------|-----------------------------------|
| TS | Technical Specification |
| TSS | Test Suite Structure |
| TTCN | Testing and Test Control Notation |
| URI | Uniform Resource Identifier |
| URL | Uniform Resource Locator |

4 Conventions

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

5 Prerequisites and Test Configurations

5.1 Test Configurations

Test configurations are defined to test different entities such as CSE and AE etc.

Figure 5.1-1 and Figure 5.1-2 show CSE test configurations where CSE as a IUT can be tested against TTCN-3 Test System, which is acting as AE or AE and CSE respectively. Test system may include as well other entities which are necessary for each configuration, i.e. a second AE (AE2) for receiving notifications. These entities are represented with dashed rectangles.

Figure 5.1-3 shows AE test configuration (CF03) for ADN-AE testing scenario where ADN-AE is IUT and TTCN-3 Test System is acting as a CSE.

Figure 5.1-4 depicts test configurations between two CSEs, where one CSE is acting as a Test System, the other is SUT.

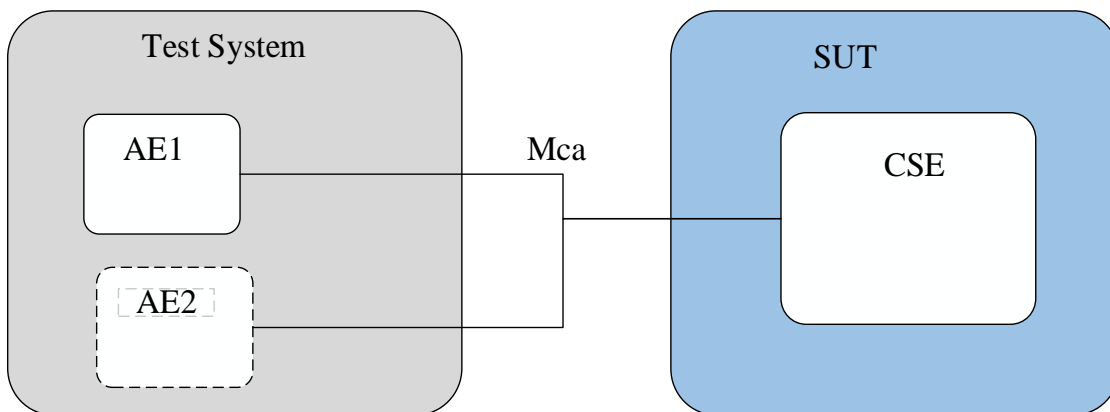


Figure 5.1-1: Test configuration 1 (CF01)

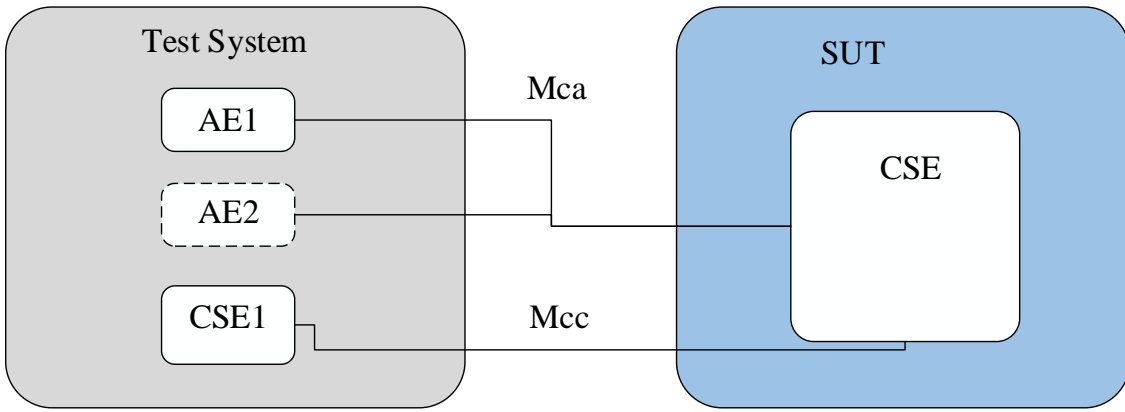


Figure 5.1-2: Test configuration 2 (CF02)

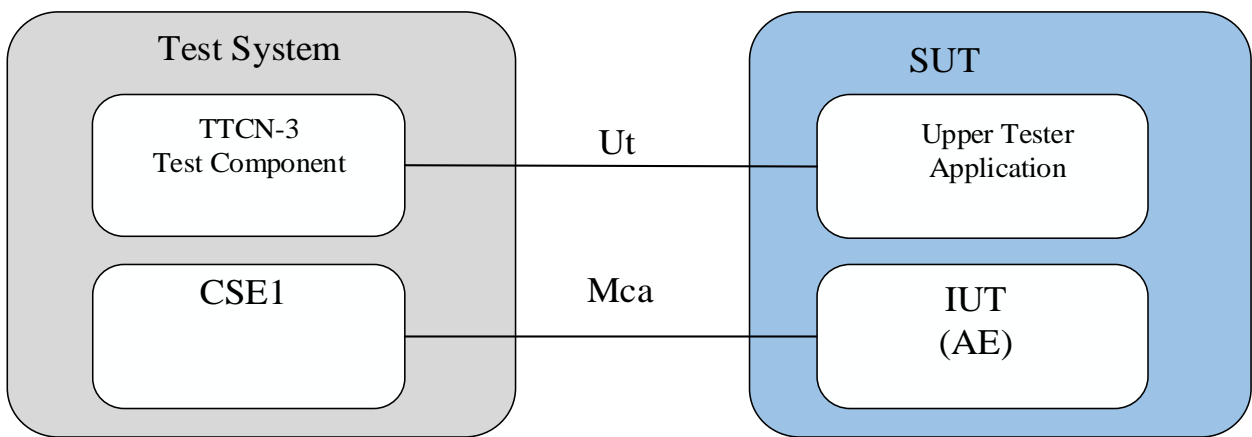


Figure 5.1-3: Test configuration 3 (CF03)

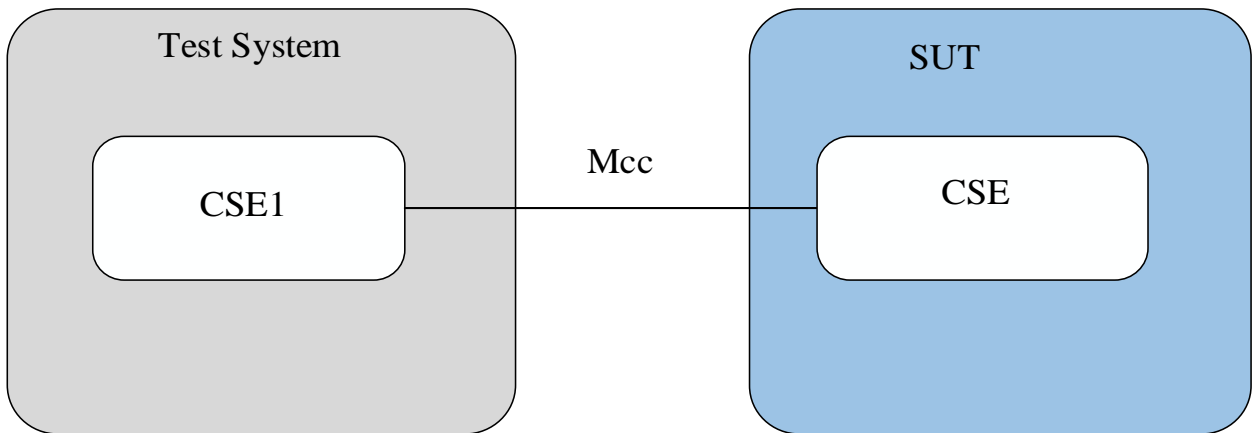


Figure 5.1-4: Test configuration 4 (CF04)

6 Test Suite Structure (TSS)

6.1 Test groups

6.1.0 Overview

The test groups are organized in 2 levels. The first level defines the functional entity of oneM2M. The second level defines the common services functions which are represented in oneM2M functional architecture.

6.1.1 Functional Entity Groups

The functional entity groups identify the types of entity which are specified in oneM2M functional architecture (ETSI TS 118 101 [1]):

- AE
- CSE

6.1.2 Common Services Functions Subgroups

The common services functions subgroups identify the general procedures in each common services functions specified in oneM2M functional architecture (ETSI TS 118 101 [1]):

- Registration
- Data Management and Repository
- Subscription and Notification
- Group Management
- Discovery
- Location
- Device Management
- Communication Management and Delivery Handling
- Security

6.1.3 oneM2M Resource Primitives specific Operations

A group of resource type specific procedures are defined in oneM2M functional architecture (ETSI TS 118 101 [1]) and service layer core protocol (ETSI TS 118 104 [2]). Those procedures can be potentially abstracted with requirements for generating test purposes for conformance testing purpose. Those resource type specific procedures are the complementary procedures to the general procedures defined in oneM2M Common Service Functions (CSF) and will use for subgroups of structures for oneM2M tests. A list of those procedures are including:

- pollingChannel
- non-blocking communication
- retargeting
- FlexContainer

6.2 Test Suite Structure (TSS) for oneM2M

The Test Suite Structure (TSS) for oneM2M will be present as below:

- Group 1: General Capability (GEN):
 - Subgroup 1.1: Protocol Bindings
 - Subgroup 1.2: Serializations
- Group 2: *AE(AE)*:
 - Subgroup 2.1: General Capability (GEN)
 - Subgroup 2.2: Registration(REG)
 - Subgroup 2.3: Data Management and Repository(DMR)
 - Subgroup 2.4: Subscription and Notification(SUB)
 - Subgroup 2.5: Communication Management and Delivery Handling(CMDH)
 - Subgroup 2.5.1: Request Message Polling(PCH)
- Group 3: *CSE(CE)*:
 - Subgroup 3.1: General Capability (GEN)
 - Subgroup 3.2: Registration(REG)
 - Subgroup 3.3: Data Management and Repository(DMR)
 - Subgroup 3.4: Subscription and Notification(SUB)
 - Subgroup 3.5: Group Management(GMG)
 - Subgroup 3.6: Discovery(DIS)
 - Subgroup 3.7: Communication Management and Delivery Handling(CMDH)
 - Subgroup 3.7.1: Request Message Polling(PCH)
 - Subgroup 3.7.2: Response Type(RT)
 - Subgroup 3.8: Security(SEC)
 - Subgroup 3.9: FlexContainer (FLXC)

7 Test Purposes (TP)

7.1 Introduction

7.1.1 TP definition conventions

The TP definition is constructed according to Test Suite Structure & Test Purposes(TSS&TP) in Testing Framework (ETSI TS 118 115 [3]).

7.1.2 TP Identifier naming conventions

The identifier of the TP is constructed according to table 7.1.2-1.

Table 7.1.2-1: TP naming convention for oneM2M

| Name | Option | Interpretation |
|---|--|-------------------------|
| TP/<root>/<ent>/<gr>/<sgr>/<opr>/<nnn>_<pmu> | | |
| <root> = root | oneM2M | oneM2M |
| <ent> = entity | AE | Application Entity |
| | CSE | Common Services Entity |
| <gr> = group | GEN | Common Service Function |
| | REG | |
| | DMR | |
| | SUB | |
| | GMG | |
| | DIS | |
| | SEC | |
| | FLXC | |
| <sgr> = sub-group | ACP | AccessControlPolicy |
| <opr> = operation | CRE | Create |
| | UPD | Update |
| | RET | Retrieve |
| | DEL | Delete |
| | NTF | Notify |
| <nnn> = sequential number | 001 to 999 | 023 |
| <pmu> = permutation part | May be number, short name of attribute or resource type depend on the permuted part in the TP. If there are more than one permuted variables, they should be separated by slash '/'. Enumerated type attribute and its value is represented as <VARIABLE_1>/<VALUE>, e.g. TP/oneM2M/CSE/DMR/RET/020_RCN/0 When resourceType attribute is involved in a TP Id, the resourceType shall be put in first order followed by any other attribute(s), if any, <RESOURCE_TYPE>/<VARIABLE_1>/<VARIABLE_2> e.g. TP/oneM2M/CSE/DMR/CRE/015_CNT/ACPI | |

7.1.3 Rules for the behaviour description

The description of the TP is built according to ETSI TS 118 115 [3] Testing Framework.

In addition, the following rules apply:

- 1) Primitive parameters shall use their *Parameter name* as indicated in ETSI TS 118 104 [2] table 8.2.2-1.
- 2) Resource attributes shall use their *Attribute name* as indicated in ETSI TS 118 104 [2] table 8.2.3 followed by "attribute".
- 3) When *Content* request parameter contains a resource representation, such representation shall contain all mandatory attributes and could contain some optional attributes. Only those attributes and/or child resources required by the test purpose will be explicitly indicated.
- 4) When *Content* response parameter contains a resource representation, such representation shall contain attributes and/or child resources according to the Result Content parameter of the corresponding request. Only those attributes and/or child resources required by the test purpose will be explicitly indicated.

7.1.4 ICS reference

Table 7.1.4-1: Node

| Item | Name of field | Reference | Status | Support |
|--|----------------------------------|-----------|--------|---------|
| 1 | ASN (Application Service Node) | 5.1.2 | o.1 | |
| 2 | ADN (Application Dedicated Node) | 5.1.2 | o.1 | |
| 3 | IN (Infrastructure Node) | 5.1.2 | o.1 | |
| 4 | MN (Middle Node) | 5.1.2 | o.1 | |
| o.1: Exactly one item shall be supported | | | | |

Table 7.1.4-2: Functional entity type

| Prerequisite: A.1 | | | | |
|--------------------------------------|---------------|-----------|--------|---------|
| Item | Name of field | Reference | Status | Support |
| 1 | AE | 5.1.1 | c.1 | |
| 2 | CSE | 5.1.1 | c.2 | |
| c.1: If A.1-1 or A.1-2 then m else o | | | | |
| c.2: If A.1-2 x else m | | | | |

Table 7.1.4-3: Mnemonics for PICS reference

| Mnemonic | PICS item |
|---|-----------------------------------|
| PICS_AE | oneM2M TS-0017 [4], table A.5.1-1 |
| PICS_CSE | oneM2M TS-0017 [4], table A.5.1-1 |
| PICS_ASN_CSE | oneM2M TS-0017 [4], table A.5.1-2 |
| PICS_ADN | oneM2M TS-0017 [4], table A.5.1-2 |
| PICS_IN_CSE | oneM2M TS-0017 [4], table A.5.1-2 |
| PICS_MN_CSE | oneM2M TS-0017 [4], table A.5.1-2 |
| PICS_STRUCTURED_CSE_RELATIVE_RESOURCE_ID_FORMAT | oneM2M TS-0017 [4], table A.5.2-1 |
| PICS_UNSTRUCTURED_CSE_RELATIVE_RESOURCE_ID_FORMAT | oneM2M TS-0017 [4], table A.5.2-1 |
| PICS_SP_RELATIVE_RESOURCE_ID | oneM2M TS-0017 [4], table A.5.2-1 |
| PICS_ABSOLUTE_RESOURCE_ID | oneM2M TS-0017 [4], table A.5.2-1 |
| PICS_ACP_SUPPORT | oneM2M TS-0017 [4], table A.5.6-1 |
| PICS_CB_CST | oneM2M TS-0017 [4], table A.5.7-1 |
| PICS_CB_NL | oneM2M TS-0017 [4], table A.5.7-1 |
| PICS_CSR_RN | oneM2M TS-0017 [4], table A.5.7-2 |
| PICS_CSR_ET | oneM2M TS-0017 [4], table A.5.7-2 |
| PICS_CSR_LBL | oneM2M TS-0017 [4], table A.5.7-2 |
| PICS_CSR_POA | oneM2M TS-0017 [4], table A.5.7-2 |
| PICS_CSR_NL | oneM2M TS-0017 [4], table A.5.7-2 |
| PICS_CSR_CST | oneM2M TS-0017 [4], table A.5.7-2 |
| PICS_CSR_RR | oneM2M TS-0017 [4], table A.5.7-2 |
| PICS_AE_LBL | oneM2M TS-0017 [4], table A.5.7-3 |
| PICS_AE_APN | oneM2M TS-0017 [4], table A.5.7-3 |
| PICS_AE_POA | oneM2M TS-0017 [4], table A.5.7-3 |
| PICS_AE_NL | oneM2M TS-0017 [4], table A.5.7-3 |
| PICS_AE_CSZ | oneM2M TS-0017 [4], table A.5.7-3 |
| PICS_CNT ACPI | oneM2M TS-0017 [4], table A.5.7-5 |
| PICS_CNT_MNI | oneM2M TS-0017 [4], table A.5.7-5 |
| PICS_CNT_MBS | oneM2M TS-0017 [4], table A.5.7-5 |
| PICS_CNT_MIA | oneM2M TS-0017 [4], table A.5.7-5 |
| Mnemonic | PICS item |
| PICS_CNT_OR | oneM2M TS-0017 [4], table A.5.7-5 |
| PICS_CNT_LI | oneM2M TS-0017 [4], table A.5.7-5 |
| PICS_CNT_RN | oneM2M TS-0017 [4], table A.5.7-5 |

| | |
|---------------|-----------------------------------|
| PICS_CNT_ET | oneM2M TS-0017 [4], table A.5.7-5 |
| PICS_CNT_LBL | oneM2M TS-0017 [4], table A.5.7-5 |
| PICS_CNT_CR | oneM2M TS-0017 [4], table A.5.7-5 |
| PICS_CIN_CNF | oneM2M TS-0017 [4], table A.5.7-6 |
| PICS_CIN_RN | oneM2M TS-0017 [4], table A.5.7-6 |
| PICS_CIN_ET | oneM2M TS-0017 [4], table A.5.7-6 |
| PICS_CIN_LBL | oneM2M TS-0017 [4], table A.5.7-6 |
| PICS_CIN_CR | oneM2M TS-0017 [4], table A.5.7-6 |
| PICS_ACP_LBL | oneM2M TS-0017 [4], table A.5.7-4 |
| PICS_SUB ACPI | oneM2M TS-0017 [4], table A.5.7-7 |
| PICS_SUB_LBL | oneM2M TS-0017 [4], table A.5.7-7 |
| PICS_SUB_ENC | oneM2M TS-0017 [4], table A.5.7-7 |
| PICS_SUB_EXC | oneM2M TS-0017 [4], table A.5.7-7 |
| PICS_SUB_GPI | oneM2M TS-0017 [4], table A.5.7-7 |
| PICS_SUB_NFU | oneM2M TS-0017 [4], table A.5.7-7 |
| PICS_SUB_BN | oneM2M TS-0017 [4], table A.5.7-7 |
| PICS_SUB_RL | oneM2M TS-0017 [4], table A.5.7-7 |
| PICS_SUB_PN | oneM2M TS-0017 [4], table A.5.7-7 |
| PICS_SUB_NSP | oneM2M TS-0017 [4], table A.5.7-7 |
| PICS_SUB_LN | oneM2M TS-0017 [4], table A.5.7-7 |
| PICS_SUB_NCT | oneM2M TS-0017 [4], table A.5.7-7 |
| PICS_SUB_NEC | oneM2M TS-0017 [4], table A.5.7-7 |
| PICS_SUB_CR | oneM2M TS-0017 [4], table A.5.7-7 |
| PICS_SUB_SU | oneM2M TS-0017 [4], table A.5.7-7 |
| PICS_GRP_LBL | oneM2M TS-0017 [4], table A.5.7-8 |
| PICS_GRP ACPI | oneM2M TS-0017 [4], table A.5.7-8 |
| PICS_GRP_MACP | oneM2M TS-0017 [4], table A.5.7-8 |
| PICS_GRP_GN | oneM2M TS-0017 [4], table A.5.7-8 |

7.2 Test Purposes for oneM2M Service Primitives

7.2.1 Group AE (AE)

7.2.1.1 General Capability (GEN)

7.2.1.1.1 CREATE Operation

TP/oneM2M/AE/GEN/CRE/001

| | | |
|---------------------------|--|---------------------|
| TP Id | TP/oneM2M/AE/GEN/CRE/001 | |
| Test objective | Check that the IUT sends the creation of a <container> resource using unstructured resource identifier | |
| Reference | ETSI TS 118 101 [1], table 9.3.1-1 | |
| Config Id | CF03 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_AE, PICS_UNSTRUCTURED_CSE_RELATIVE_RESOURCE_ID_FORMAT | |
| Initial conditions | with { the IUT being registered and the IUT being switched on and the IUT being configured to use <i>NON_HIERARCHICAL_RESOURCE_ADDRESS</i> and the IUT having privileges to perform CREATE operation on resource <i>TARGET_RESOURCE_ADDRESS</i> } | |
| ted behaviour | Test events | Direction |
| | when { the IUT is triggered to send a valid CREATE Request containing To set to <i>NON_HIERARCHICAL_RESOURCE_ADDRESS</i> } then { the IUT sends a valid Container CREATE Request to CSE containing To set to <i>NON_HIERARCHICAL_RESOURCE_ADDRESS</i> and From set to <i>AE_ID</i> } | NA CSE ← IUT |

| TP Id | NON_HIERARCHICAL_RESOURCE_ADDRESS |
|---|---------------------------------------|
| TP/oneM2M/AE/GEN/CRE/001_CSR | UNSTRUCTURED_CSE_RELATIVE_RESOURCE_ID |
| TP/oneM2M/AE/GEN/CRE/001_SPR | SP_RELATIVE_RESOURCE_ID, (see note) |
| TP/oneM2M/AE/GEN/CRE/001_ABS | ABSOLUTE_RESOURCE_ID, (see note) |
| NOTE: These addresses are constructed with the Unstructured-CSE-Relative-Resource-ID. | |

TP/oneM2M/AE/GEN/CRE/002

| | | |
|---------------------------|--|------------------|
| TP Id | TP/oneM2M/AE/GEN/CRE/002 | |
| Test objective | Check that the IUT sends the creation of a <container> resource using structured resource identifier | |
| Reference | ETSI TS 118 101 [1], table 9.3.1-1 | |
| Config Id | CF03 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_AE, PICS_STRUCTURED_CSE_RELATIVE_RESOURCE_ID_FORMAT | |
| Initial conditions | with { the IUT being registered and the IUT being switched on and the IUT being configured to use <i>HIERARCHICAL_RESOURCE_ADDRESS</i> and the IUT having privileges to perform CREATE operation on resource <i>TARGET_RESOURCE_ADDRESS</i> } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT is triggered to send a valid CREATE Request containing To set to <i>HIERARCHICAL_RESOURCE_ADDRESS</i> and Resource Type set to 3 (container) and From set to <i>AE_ID</i> and Content containing container resource representation } | NA |
| | then { the IUT sends a valid CREATE Request to CSE containing To set to <i>HIERARCHICAL_RESOURCE_ADDRESS</i> and Resource Type set to 3 (container) and From set to <i>AE_ID</i> and Content containing container resource representation } | CSE ← IUT |

| TP Id | HIERARCHICAL_RESOURCE_ADDRESS |
|---|-------------------------------------|
| TP/oneM2M/AE/GEN/CRE/002_CSR | STRUCTURED_CSE_RELATIVE_RESOURCE_ID |
| TP/oneM2M/AE/GEN/CRE/002_SPR | SP_RELATIVE_RESOURCE_ID, (see note) |
| TP/oneM2M/AE/GEN/CRE/002_ABS | ABSOLUTE_RESOURCE_ID, (see note) |
| NOTE: These addresses are constructed with the Structured-CSE-Relative-Resource-ID. | |

7.2.1.1.2 UPDATE Operation

TP/oneM2M/AE/GEN/UPD/001

| | | |
|---------------------------|---|------------------|
| TP Id | TP/oneM2M/AE/GEN/UPD/001 | |
| Test objective | Check that the IUT sends the update of a <container> resource using unstructured resource identifier | |
| Reference | ETSI TS 118 101 [1], table 9.3.1-1 | |
| Config Id | CF03 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_AE, PICS_UNSTRUCTURED_CSE_RELATIVE_RESOURCE_ID_FORMAT | |
| Initial conditions | with { the IUT being registered and the IUT being switched on and the IUT being configured to use <i>NON_HIERARCHICAL_RESOURCE_ADDRESS</i> and the IUT having created a container resource <i>CONTAINER_RESOURCE_ADDRESS</i> and the IUT having privileges to perform UPDATE operation on resource <i>CONTAINER_RESOURCE_ADDRESS</i> } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT is triggered to send a valid UPDATE Request containing To set to <i>CONTAINER_RESOURCE_ADDRESS</i> and Content containing container resource containing valid labels attribute } then { the IUT sends a valid UPDATE request to CSE containing To set to <i>NON_HIERARCHICAL_RESOURCE_ADDRESS</i> and From set to <i>AE_ID</i> and Content containing container resource containing valid labels attribute } | NA |
| | | IUT → CSE |

| TP Id | NON_HIERARCHICAL_RESOURCE_ADDRESS |
|------------------------------|---------------------------------------|
| TP/oneM2M/AE/GEN/UPD/001_CSR | UNSTRUCTURED_CSE_RELATIVE_RESOURCE_ID |
| TP/oneM2M/AE/GEN/UPD/001_SPR | SP_RELATIVE_RESOURCE_ID, (see note) |
| TP/oneM2M/AE/GEN/UPD/001_ABS | ABSOLUTE_RESOURCE_ID, (see note) |

NOTE: These addresses are constructed with the Unstructured-CSE-Relative-Resource-ID.

TP/oneM2M/AE/GEN/DEL/002

| | | |
|---------------------------|---|---------------------|
| TP Id | TP/oneM2M/AE/GEN/DEL/002 | |
| Test objective | Check that the IUT sends the deletion of a <container> resource using structured resource identifier | |
| Reference | ETSI TS 118 101 [1], table 9.3.1-1 | |
| Config Id | CF03 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_AE, PICS_STRUCTURED_CSE_RELATIVE_RESOURCE_ID_FORMAT | |
| Initial conditions | with { the IUT being registered and the IUT being switched on and the IUT being configured to use <i>HIERARCHICAL_RESOURCE_ADDRESS</i> and the IUT having created a container resource <i>CONTAINER_RESOURCE_ADDRESS</i> and the IUT having privileges to perform DELETE operation on container resource } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT is triggered to send a valid DELETE Request containing To set to <i>CONTAINER_RESOURCE_ADDRESS</i> } then { the IUT sends a valid DELETE request to CSE containing To set to <i>HIERARCHICAL_RESOURCE_ADDRESS</i> and From set to <i>AE_ID</i> } | NA IUT → CSE |

| TP Id | HIERARCHICAL_RESOURCE_ADDRESS |
|---|-------------------------------------|
| TP/oneM2M/AE/GEN/DEL/002_CSR | STRUCTURED_CSE_RELATIVE_RESOURCE_ID |
| TP/oneM2M/AE/GEN/DEL/002_SPR | SP_RELATIVE_RESOURCE_ID, (see note) |
| TP/oneM2M/AE/GEN/DEL/002_ABS | ABSOLUTE_RESOURCE_ID, (see note) |
| NOTE: These addresses are constructed with the Structured-CSE-Relative-Resource-ID. | |

7.2.1.2 Registration (REG)

7.2.1.2.1 CREATE Operation

TP/oneM2M/AE/REG/CRE/001

| | | |
|---------------------------|---|------------------|
| TP Id | TP/oneM2M/AE/REG/CRE/001 | |
| Test objective | Check that the IUT sends an AE initial registration request with no AE-ID-STEM provided when it is started | |
| Reference | ETSI TS 118 101 [1], clause 10.1.1.2.2 - case C, and clause 9.6.19 | |
| Config Id | CF03 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_AE | |
| Initial conditions | with { the IUT never being registered and the IUT being switched off and the IUT having got a valid APP-ID } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT is triggered to send a valid CREATE Request containing To set to CSE_RESOURCE_ADDRESS and Resource Type set to 2 (AE) and Content containing AE resource representation } | NA |
| | then { the IUT sends a valid CREATE Request to CSE containing Resource Type set to 2 (AE) and To set to CSE_RESOURCE_ADDRESS and From set to empty and Content containing AE resource representation } | CSE ← IUT |

TP/oneM2M/AE/REG/CRE/002

| | | |
|---------------------------|--|------------------|
| TP Id | TP/oneM2M/AE/REG/CRE/002 | |
| Test objective | Check that the IUT sends a registration CREATE Request with the value of the attribute <i>ATTRIBUTE_NAME</i> of the AE resource | |
| Reference | ETSI TS 118 104 [2], clause 7.4.5.1 | |
| Config Id | CF03 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_AE | |
| Initial conditions | with { the IUT never being registered and the IUT being switched off and the IUT having got a valid APP-ID } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT is triggered to send a valid CREATE Request containing To set to TARGET_RESOURCE_ADDRESS and Resource Type set to 2 (AE) and Content containing AE resource containing <i>ATTRIBUTE_NAME</i> attribute } | NA |

| | | |
|--|--|------------------|
| | <pre> then { the IUT sends a valid CREATE Request containing To set to TARGET_RESOURCE_ADDRESS and From set to AE_ID and Content containing AE resource containing valid ATTRIBUTE_NAME attribute } </pre> | <p>IUT → CSE</p> |
|--|--|------------------|

| TP Id | Reference | ATTRIBUTE_NAME |
|------------------------------|-------------------------------------|----------------------|
| TP/oneM2M/AE/REG/CRE/002_RN | ETSI TS 118 104 [2], clause 7.4.5.1 | resourceName |
| TP/oneM2M/AE/REG/CRE/002_ET | ETSI TS 118 104 [2], clause 7.4.5.1 | expirationTime |
| TP/oneM2M/AE/REG/CRE/002_LBL | ETSI TS 118 104 [2], clause 7.4.5.1 | labels |
| TP/oneM2M/AE/REG/CRE/002_APN | ETSI TS 118 104 [2], clause 7.4.5.1 | appName |
| TP/oneM2M/AE/REG/CRE/002_API | ETSI TS 118 104 [2], clause 7.4.5.1 | App-ID |
| TP/oneM2M/AE/REG/CRE/002_POA | ETSI TS 118 104 [2], clause 7.4.5.1 | pointOfAccess |
| TP/oneM2M/AE/REG/CRE/002_OR | ETSI TS 118 104 [2], clause 7.4.5.1 | ontologyRef |
| TP/oneM2M/AE/REG/CRE/002_NL | ETSI TS 118 104 [2], clause 7.4.5.1 | nodeLink |
| TP/oneM2M/AE/REG/CRE/002_RR | ETSI TS 118 104 [2], clause 7.4.5.1 | requestReachability |
| TP/oneM2M/AE/REG/CRE/002_CSZ | ETSI TS 118 104 [2], clause 7.4.5.1 | contentSerialization |

7.2.1.2.2 DELETE Operation

TP/oneM2M/AE/REG/DEL/001

| | | |
|---------------------------|--|----------------------------|
| TP Id | TP/oneM2M/AE/REG/DEL/001 | |
| Test objective | Check that the IUT sends AE deregistration request to CSE | |
| Reference | ETSI TS 118 101 [1], clause 10.1.4.2.2 | |
| Config Id | CF03 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_AE | |
| Initial conditions | <pre> with { the IUT being in the "initial state" the IUT having registered to CSE and the IUT having privileges to perform DELETE operation on the resource AE to CSE } </pre> | |
| Expected behaviour | Test events | Direction |
| | <pre> when { the IUT is triggered to send a valid DELETE Request containing To set to AE_RESOURCE_ADDRESS } then { the IUT sends a valid DELETE Request containing To set to AE_RESOURCE_ADDRESS and From set to AE_ID } </pre> | <p>NA</p> <p>CSE ← IUT</p> |

7.2.1.3 Data Management and Repository (DMR)

7.2.1.3.1 CREATE Operation

TP/oneM2M/AE/DMR/CRE/001

| | | |
|---------------------------|---|------------------|
| TP Id | TP/oneM2M/AE/DMR/CRE/001 | |
| Test objective | Check that the IUT sends a Container creation request when it is triggered | |
| Reference | ETSI TS 118 101 [1], clauses 10.1.1.1 and 10.2.4.1, ETSI TS 118 104 [2], clauses 7.2.2.1 and 7.4.6.1 | |
| Config Id | CF03 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_AE. | |
| Initial conditions | with { the IUT being registered and the IUT being switched on and the IUT having privileges to perform CREATE operation on resource AE_RESOURCE_ADDRESS } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT is triggered to send a valid CREATE Request containing To set to AE_RESOURCE_ADDRESS and Resource Type set to 3 (container) and From set to AE_ID and Content containing container resource representation } | NA |
| | then { the IUT sends a valid CREATE Request to CSE containing To set to AE_RESOURCE_ADDRESS and Resource Type set to 3 (container) and From set to AE_ID and Content containing container resource representation } | CSE ← IUT |

TP/oneM2M/AE/DMR/CRE/002

| | | |
|---------------------------|---|------------------|
| TP Id | TP/oneM2M/AE/DMR/CRE/002 | |
| Test objective | Check that the IUT sends a ContentInstance creation request when it is triggered | |
| Reference | ETSI TS 118 101 [1], clauses 10.1.1.1 and 10.2.4.1, ETSI TS 118 104 [2], clauses 7.2.2.1 and 7.4.7.2.1 | |
| Config Id | CF03 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_AE. | |
| Initial conditions | with { the IUT being registered and the IUT having created a container resource CONTAINER_RESOURCE_ADDRESS and the IUT having privileges to perform CREATE operation on resource CONTAINER_RESOURCE_ADDRESS } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT is triggered to send a valid CREATE Request containing To set to CONTAINER_RESOURCE_ADDRESS and Resource Type set to 4 (contentInstance) and Content containing contentInstance resource representation } | NA |

TP/oneM2M/AE/DMR/CRE/004

| | | |
|---------------------------|--|------------------|
| TP Id | TP/oneM2M/AE/DMR/CRE/004 | |
| Test objective | Check that the IUT sends a Container creation request with optional attribute ATTRIBUTE_NAME when it is triggered | |
| Reference | ETSI TS 118 101 [1], clauses 10.1.1.1 and 10.2.4.1, ETSI TS 118 104 [2], clauses 7.2.2.1 and 7.4.6.1 | |
| Config Id | CF03 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_AE. | |
| Initial conditions | with { the IUT being registered and the IUT having privileges to perform CREATE operation on resource AE_RESOURCE_ADDRESS } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT is triggered to send a valid CREATE Request containing To set to AE_RESOURCE_ADDRESS and Resource Type set to 3 (container) and Content containing container resource containing valid ATTRIBUTE_NAME attribute } | NA |
| | then { the IUT sends a valid CREATE Request containing To set to AE_RESOURCE_ADDRESS and Resource Type set to 3 (container) and From set to AE_ID and Content containing container resource containing valid ATTRIBUTE_NAME attribute } | CSE ← IUT |

| TP Id | PICS Selection | ATTRIBUTE_NAME |
|-------------------------------|----------------|------------------------|
| TP/oneM2M/AE/DMR/CRE/004_ACPI | PICS_CNT_ACPI | accessControlPolicyIDs |
| TP/oneM2M/AE/DMR/CRE/004_MNI | PICS_CNT_MNI | maxNrOfInstances |
| TP/oneM2M/AE/DMR/CRE/004_MBS | PICS_CNT_MBS | maxByteSize |
| TP/oneM2M/AE/DMR/CRE/004_MIA | PICS_CNT_MIA | maxInstanceAge |
| TP/oneM2M/AE/DMR/CRE/004_OR | PICS_CNT_OR | ontologyRef |
| TP/oneM2M/AE/DMR/CRE/004_LI | PICS_CNT_LI | locationID |
| TP/oneM2M/AE/DMR/CRE/004_RN | PICS_CNT_RN | resourceName |
| TP/oneM2M/AE/DMR/CRE/004_ET | PICS_CNT_ET | expirationTime |
| TP/oneM2M/AE/DMR/CRE/004_LBL | PICS_CNT_LBL | labels |
| TP/oneM2M/AE/DMR/CRE/004_CR | PICS_CNT_CR | creator |

7.2.1.3.2 UPDATE Operation

TP/oneM2M/AE/DMR/UPD/001

| | | |
|---------------------------|---|------------------|
| TP Id | TP/oneM2M/AE/DMR/UPD/001 | |
| Test objective | Check that the IUT sends an UPDATE Request with the value of the attribute <i>ATTRIBUTE_NAME</i> of the AE resource | |
| Reference | ETSI TS 118 101 [1], clause 10.1.3 | |
| Config Id | CF03 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_AE | |
| Initial conditions | with { the IUT being registered containing a RW attribute <i>ATTRIBUTE_NAME</i> } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT is triggered to send a valid UPDATE Request containing To set to AE_RESOURCE_ADDRESS and Content containing AE resource containing valid <i>ATTRIBUTE_NAME</i> attribute } | NA |
| | then { the IUT sends a valid UPDATE Request containing To set to AE_RESOURCE_ADDRESS and From set to AE_ID and Content containing AE resource containing valid <i>ATTRIBUTE_NAME</i> attribute } | IUT → CSE |

| TP Id | Reference | ATTRIBUTE_NAME |
|------------------------------|-------------------------------------|----------------------|
| TP/oneM2M/AE/DMR/UPD/001_ET | ETSI TS 118 104 [2], clause 7.4.5.1 | expirationTime |
| TP/oneM2M/AE/DMR/UPD/001_LBL | ETSI TS 118 104 [2], clause 7.4.5.1 | labels |
| TP/oneM2M/AE/DMR/UPD/001_APN | ETSI TS 118 104 [2], clause 7.4.5.1 | appName |
| TP/oneM2M/AE/DMR/UPD/001_POA | ETSI TS 118 104 [2], clause 7.4.5.1 | pointOfAccess |
| TP/oneM2M/AE/DMR/UPD/001_OR | ETSI TS 118 104 [2], clause 7.4.5.1 | ontologyRef |
| TP/oneM2M/AE/DMR/UPD/001_NL | ETSI TS 118 104 [2], clause 7.4.5.1 | nodeLink |
| TP/oneM2M/AE/DMR/UPD/001_RR | ETSI TS 118 104 [2], clause 7.4.5.1 | requestReachability |
| TP/oneM2M/AE/DMR/UPD/001_CSZ | ETSI TS 118 104 [2], clause 7.4.5.1 | contentSerialization |

TP/oneM2M/AE/DMR/RET/005

| | | |
|---------------------------|---|------------------|
| TP Id | TP/oneM2M/AE/DMR/RET/005 | |
| Test objective | Check that the IUT sends a <contentInstance> resource RETRIEVE Request to CSE | |
| Reference | ETSI TS 118 104 [2], clause 7.4.7.2.2 | |
| Config Id | CF03 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_AE. | |
| Initial conditions | with { the IUT being registered and the IUT being switched on and the CSE having created a container resource and the CSE having created a contentInstance resource under container resource and the IUT having privileges to perform RETRIEVE operation on contentInstance resource } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT is triggered to send a valid RETRIEVE Request containing To set to CONTENTINSTANCE_RESOURCE_ADDRESS } | NA |
| | then { the IUT sends a valid RETRIEVE Request containing To set to CONTENTINSTANCE_RESOURCE_ADDRESS and From set to AE_ID } | IUT → CSE |

7.2.1.3.4 DELETE Operation

TP/oneM2M/AE/DMR/DEL/001

| | | |
|---------------------------|---|------------------|
| TP Id | TP/oneM2M/AE/DMR/DEL/001 | |
| Test objective | Check that the IUT sends a DELETE Request of oldest virtual resource. | |
| Reference | ETSI TS 118 101 [1], clause 10.2.23.2, ETSI TS 118 104 [2], clause 7.4.28.2.5 | |
| Config Id | CF03 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_AE | |
| Initial conditions | with { the IUT being registered and the IUT being switched on and the CSE having created a container resource and the CSE having created a contentInstance resource under container resource and the IUT having privileges to perform DELETE operation on contentInstance resource } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT is triggered to send a valid DELETE Request containing To set to CONTAINER_RESOURCE_ADDRESS/oldest } | NA |
| | then { the IUT sends a valid DELETE Request containing To set to CONTAINER_RESOURCE_ADDRESS/oldest and From set to AE_ID } | IUT → CSE |

TP/oneM2M/AE/DMR/DEL/002

| | | |
|---------------------------|---|------------------|
| TP Id | TP/oneM2M/AE/DMR/DEL/002 | |
| Test objective | Check that the IUT sends a DELETE Request of latest virtual resource. | |
| Reference | ETSI TS 118 101 [1], clause 10.2.22.2, ETSI TS 118 104 [2], clause 7.4.27.2.5 | |
| Config Id | CF03 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_AE | |
| Initial conditions | with { the IUT being registered and the IUT being switched on and the CSE having created a container resource and the CSE having created a contentInstance resource under container resource and the IUT having privileges to perform DELETE operation on contentInstance resource } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT is triggered to send a valid DELETE Request containing To set to CONTAINER_RESOURCE_ADDRESS/oldest } | NA |
| | then { the IUT sends a valid DELETE Request containing To set to CONTAINER_RESOURCE_ADDRESS/latest and From set to AE_ID } | IUT → CSE |

TP/oneM2M/AE/DMR/DEL/003

| | | |
|---------------------------|--|------------------|
| TP Id | TP/oneM2M/AE/DMR/DEL/003 | |
| Test objective | Check that the IUT sends a <container> resource DELETE request to CSE | |
| Reference | ETSI TS 118 104 [2], clause 7.4.6.2.4 | |
| Config Id | CF03 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_AE | |
| Initial conditions | with { the IUT being registered and and the IUT being switched on and the IUT having created a container resource CONTAINER_RESOURCE_ADDRESS and the IUT having privileges to perform DELETE operation on container resource } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT is triggered to send a valid DELETE Request containing To set to CONTAINER_RESOURCE_ADDRESS } | NA |
| | then { the IUT sends a valid DELETE Request containing To set to CONTAINER_RESOURCE_ADDRESS and From set to AE_ID } | CSE ← IUT |

TP/oneM2M/AE/DMR/DEL/004

| | | |
|---------------------------|---|------------------|
| TP Id | TP/oneM2M/AE/DMR/DEL/004 | |
| Test objective | Check that the IUT sends a <contentInstance> resource DELETE request to CSE | |
| Reference | ETSI TS 118 104 [2], clause 7.4.7.2.4 | |
| Config Id | CF03 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_AE | |
| Initial conditions | with { the IUT being registered and the IUT being switched on and the CSE having created a container resource and the CSE having created a contentInstance resource under container resource and the IUT having privileges to perform DELETE operation on contentInstance resource } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT is triggered to send a valid DELETE Request containing To set to CONTENTINSTANCE_RESOURCE_ADDRESS } | NA |
| | then { the IUT sends a valid DELETE Request containing To set to CONTENTINSTANCE_RESOURCE_ADDRESS and From set to AE_ID } | CSE ← IUT |

7.2.1.4 Subscription and Notification (SUB)

7.2.1.4.1 CREATE Operation

TP/oneM2M/AE/SUB/CRE/001

| | | |
|---------------------------|--|------------------|
| TP Id | TP/oneM2M/AE/SUB/CRE/001 | |
| Test objective | Check that the IUT sends a subscription creation request | |
| Reference | ETSI TS 118 101 [1], clauses 10.1.1.1 and 10.2.4.1, ETSI TS 118 104 [2], clauses 7.2.2.1 and 7.4.8.2.1 | |
| Config Id | CF03 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_AE. | |
| Initial conditions | with { the IUT being registered and the IUT being switched off and the IUT having privileges to perform CREATE operation on resource AE_RESOURCE_ADDRESS } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT is triggered to send a valid CREATE Request containing Resource Type set to 23 (subscription) and To set to AE_RESOURCE_ADDRESS and Content containing subscription resource representation } | NA |
| | then { the IUT sends a valid CREATE Request to CSE containing Resource Type set to 23 (subscription) and To set to AE_RESOURCE_ADDRESS and From set to AE_ID and Content containing subscription resource representation } | CSE ← IUT |

TP/oneM2M/AE/SUB/CRE/002

| | | |
|---------------------------|--|------------------|
| TP Id | TP/oneM2M/AE/SUB/CRE/002 | |
| Test objective | Check that the IUT sends a subscription creation request with optional attribute ATTRIBUTE_NAME when it is triggered | |
| Reference | ETSI TS 118 101 [1], clauses 10.1.1.1 and 10.2.11.2, ETSI TS 118 104 [2], clauses 7.2.2.1 and 7.4.8.2.1 | |
| Config Id | CF03 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_AE. | |
| Initial conditions | with { the IUT being registered and the IUT having privileges to perform CREATE operation on resource AE_RESOURCE_ADDRESS } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT is triggered to send a valid CREATE Request containing To set to TARGET_RESOURCE_ADDRESS and Resource Type set to 23 (subscription) and Content containing subscription resource containing notificationURI attribute and valid ATTRIBUTE_NAME attribute } | NA |
| | then { the IUT sends a valid CREATE Request to CSE containing To set to TARGET_RESOURCE_ADDRESS and Resource Type set to 23 (subscription) and From set to AE_ID and Content containing subscription resource containing notificationURI attribute and valid ATTRIBUTE_NAME attribute } | CSE ← IUT |

| TP Id | PICS Selection | Reference | ATTRIBUTE_NAME |
|-------------------------------|----------------|---|---------------------------|
| TP/oneM2M/AE/SUB/CRE/002_ACPI | PICS_SUB_ACPI | ETSI TS 118 101 [1], clause 9.6.8, ETSI TS 118 104 [2], clause 7.4.8.1 | accessControlPolicyIDs |
| TP/oneM2M/AE/SUB/CRE/002_ENC | PICS_SUB_ENC | ETSI TS 118 101 [1], clause 9.6.8, ETSI TS 118 104 [2], clause 7.4.8.1 | eventNotificationCriteria |
| TP/oneM2M/AE/SUB/CRE/002_EXC | PICS_SUB_EXC | ETSI TS 118 101 [1], clause 9.6.8, ETSI TS 118 104 [2], clause 7.4.8.1 | expirationCounter |
| TP/oneM2M/AE/SUB/CRE/002_NFU | PICS_SUB_NFU | ETSI TS 118 101 [1], clause 9.6.8, ETSI TS 118 104 [2], clause 7.4.8.1 | notificationForwardingURI |
| TP/oneM2M/AE/SUB/CRE/002_NCT | PICS_SUB_NCT | ETSI TS 118 101 [1], clause 9.6.8, ETSI TS 118 104 [2], clause 7.4.8.1 | notificationContentType |
| TP/oneM2M/AE/SUB/CRE/002_NEC | PICS_SUB_NEC | ETSI TS 118 101 [1], clause 9.6.8, ETSI TS 118 104 [2], clause 7.4.8.1 | notificationEventCat |
| TP/oneM2M/AE/SUB/CRE/002_SU | PICS_SUB_SU | ETSI TS 118 101 [1], clause 9.6.8, ETSI TS 118 104 [2], clause 7.4.8.1 | subscriberURI |

7.2.1.4.2 NOTIFY Operation

TP/oneM2M/AE/SUB/NTF/001

| | | |
|---------------------------|---|----------------------------|
| TP Id | TP/oneM2M/AE/SUB/NTF/001 | |
| Test objective | Check that the IUT sends a Notify Response to the hosting CSE when receiving a Notify request containing a single notification | |
| Reference | ETSI TS 118 101 [1], clause 6.1.12, ETSI TS 118 104 [2], clause 7.5.1.2 | |
| Config Id | CF03 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_AE | |
| Initial conditions | with { the IUT having been registered and the IUT having created subscription resource under the CSE and the IUT being reachable through a URL ACCESSIBLE_URL } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a NOTIFY Request from hosting CSE containing Content containing notification message representation } then { the IUT sends a valid NOTIFY Response to the hosting CSE containing Response Status Code set to RESPONSE_STATUS_CODE } | IUT ← CSE CSE ← IUT |

TP/oneM2M/AE/SUB/NTF/002

| | | |
|---------------------------|--|----------------------------|
| TP Id | TP/oneM2M/AE/SUB/NTF/002 | |
| Test objective | Check that the IUT sends a Notify Response to the hosting CSE when receiving a Notify request containing aggregated notifications | |
| Reference | ETSI TS 118 101 [1], clause 6.2.12, ETSI TS 118 104 [2], clause 7.5.1.2 | |
| Config Id | CF03 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_AE | |
| Initial conditions | with { the IUT having been registered and the IUT having created subscription resource under the CSE and the IUT being reachable through a URL ACCESSIBLE_URL } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a NOTIFY Request from hosting CSE containing Content containing aggregatedNotification message representation } then { the IUT sends a valid Response to the hosting CSE containing Response Status Code set to RESPONSE_STATUS_CODE } | IUT ← CSE CSE ← IUT |

7.2.1.5 Communication Management and Delivery Handling (CMDH)

7.2.1.5.1 Resource pollingChannel (PCH)

TP/oneM2M/AE/PCH/001

| | | |
|--|--|----------------------------|
| TP Id | TP/oneM2M/AE/PCH/001 | |
| Test objective | Check that the IUT which performs polling sends the Notify request to <pollingChannelURI> Hosting CSE after receiving response using polling channel | |
| Reference | ETSI TS 118 101 [1], clause 10.2.13.8 ETSI TS 118 104 [2], clause 7.4.22.2.5 | |
| Config Id | CF03 | |
| Parent Release | Release 2 | |
| PICS Selection | PICS_PCH | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered to a CSE1 and the IUT having a <pollingChannel> resource and the IUT having sent a retrieve Request to the CSE To set to POLLINGCHANNELURI_RESOURCE_ADDRESS and the CSE having received the Request from Originator containing To set to AE_RESOURCE_ADDRESS and From set to ORIGINATOR_ID } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a polling Response from the CSE containing Response Status Code set to 2000 (OK) } then { the IUT sends a NOTIFY Request to the CSE containing To set to POLLINGCHANNELURI_RESOURCE_ADDRESS and Content containing Response Status Code set to RESPONSE_STATUS_CODE } | IUT ← CSE IUT → CSE |
| NOTE: Based on figure 10.2.13.1-1 in ETSI TS 118 101 [1] step 004 and 005. | | |

TP/oneM2M/AE/PCH/002

| | | |
|--|---|---------------------|
| TP Id | TP/oneM2M/AE/PCH/002 | |
| Test objective | Check that the IUT sends an RETRIEVE Request to <pollingChannelURI> resource See the note below. | |
| Reference | ETSI TS 118 101 [1], clause 10.2.13.6, ETSI TS 118 104 [2], clause 7.4.22.2.2 | |
| Config Id | CF02 | |
| Parent Release | Release 2 | |
| PICS Selection | PICS_PCH | |
| Initial conditions | with { the IUT being registered and the IUT being switched on and the AE having a child <pollingChannel> resource } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT is triggered to send a valid RETRIEVE Request containing To set to POLLINGCHANNELURI_RESOURCE_ADDRESS } then { the IUT sends a valid RETRIEVE Request containing To set to POLLINGCHANNELURI_RESOURCE_ADDRESS From set to AE_ID } | NA IUT → CSE |
| NOTE: Based on figure 10.2.5.12-1 in ETSI TS 118 101 [1] step 001. | | |

7.2.2 Group CSE (CE)

7.2.2.1 General Capability (GEN)

7.2.2.1.1 CREATE Operation

TP/oneM2M/CSE/GEN/CRE/001

| | | |
|---------------------------|--|------------------|
| TP Id | TP/oneM2M/CSE/GEN/CRE/001 | |
| Test objective | Check that the IUT accepts the creation of a <container> resource using unstructured resource identifier | |
| Reference | ETSI TS 118 101 [1], table 9.3.1-1 | |
| Config Id | CF01 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_CSE, PICS_UNSTRUCTURED_CSE_RELATIVE_RESOURCE_ID_FORMAT | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE and the IUT having created a <container> resource TARGET_RESOURCE_ADDRESS and the AE having privileges to perform CREATE operation on the resource TARGET_RESOURCE_ADDRESS } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid CREATE request from AE containing To set to NON_HIERARCHICAL_RESOURCE_ADDRESS and From set to AE_ID and Resource Type set to 3 (container) and Content containing container resource representation } | IUT ← AE |
| | then { the IUT sends a Response message containing Response Status Code set to 2001 (CREATED) } | IUT → AE |

| TP Id | NON_HIERARCHICAL_RESOURCE_ADDRESS |
|---|---------------------------------------|
| TP/oneM2M/CSE/GEN/CRE/001_CSR | UNSTRUCTURED_CSE_RELATIVE_RESOURCE_ID |
| TP/oneM2M/CSE/GEN/CRE/001_SPR | SP_RELATIVE_RESOURCE_ID, (see note) |
| TP/oneM2M/CSE/GEN/CRE/001_ABS | ABSOLUTE_RESOURCE_ID, (see note) |
| NOTE: These addresses are constructed with the Unstructured-CSE-Relative-Resource-ID. | |

TP/oneM2M/CSE/GEN/CRE/002

| | | |
|---------------------------|---|------------------|
| TP Id | TP/oneM2M/CSE/GEN/CRE/002 | |
| Test objective | Check that the IUT accepts the creation of a <container> resource using structured resource identifier | |
| Reference | ETSI TS 118 101 [1], table 9.3.1-1 | |
| Config Id | CF01 | |
| Parent Release | PARENT_RELEASE | |
| PICS Selection | PICS_CSE, PICS_STRUCTURED_CSE_RELATIVE_RESOURCE_ID_FORMAT | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE and the IUT having created a <container> resource TARGET_RESOURCE_ADDRESS and the AE having privileges to perform CREATE operation on the resource TARGET_RESOURCE_ADDRESS } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid CREATE request from AE containing To set to HIERARCHICAL_RESOURCE_ADDRESS and From set to AE_ID and Resource Type set to 3 (container) and Content containing container resource representation } | IUT ← AE |
| | then { the IUT sends a Response message containing Response Status Code set to 2001 (CREATED) } | IUT → AE |

| TP Id | HIERARCHICAL_RESOURCE_ADDRESS |
|---|-------------------------------------|
| TP/oneM2M/CSE/GEN/CRE/002_CSR | STRUCTURED_CSE_RELATIVE_RESOURCE_ID |
| TP/oneM2M/CSE/GEN/CRE/002_SPR | SP_RELATIVE_RESOURCE_ID, (see note) |
| TP/oneM2M/CSE/GEN/CRE/002_ABS | ABSOLUTE_RESOURCE_ID, (see note) |
| NOTE: These addresses are constructed with the Structured-CSE-Relative-Resource-ID. | |

TP/oneM2M/CSE/GEN/CRE/003

| | | |
|---------------------------|--|------------------|
| TP Id | TP/oneM2M/CSE/GEN/CRE/003 | |
| Test objective | Check that the IUT accepts the creation of a <container> resource using shortcut structured resource identifier | |
| Reference | ETSI TS 118 101 [1], table 9.3.1-1 | |
| Config Id | CF01 | |
| Parent Release | PARENT_RELEASE | |
| PICS Selection | PICS_CSE, PICS_STRUCTURED_CSE_RELATIVE_RESOURCE_ID_FORMAT | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE and the IUT having created a <container> resource TARGET_RESOURCE_ADDRESS and the AE having privileges to perform CREATE operation on the resource TARGET_RESOURCE_ADDRESS } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid CREATE request from AE containing To set to SHORTCUT_HIERARCHICAL_RESOURCE_ADDRESS and From set to AE_ID and Resource Type set to 3 (container) and Content containing container resource representation } | IUT ← AE |
| | then { the IUT sends a Response message containing Response Status Code set to 2001 (CREATED) } | IUT → AE |

| TP Id | SHORTCUT_HIERARCHICAL_RESOURCE_ADDRESS |
|---|--|
| TP/oneM2M/CSE/GEN/CRE/003_CSR | STRUCTURED_CSE_RELATIVE_RESOURCE_ID |
| TP/oneM2M/CSE/GEN/CRE/003_SPR | SP_RELATIVE_RESOURCE_ID, (see note) |
| TP/oneM2M/CSE/GEN/CRE/003_ABS | ABSOLUTE_RESOURCE_ID, (see note) |
| NOTE: These addresses are constructed with the Structured-CSE-Relative-Resource-ID. | |

TP/oneM2M/CSE/GEN/CRE/004

| | | |
|---------------------------|---|------------------|
| TP Id | TP/oneM2M/CSE/GEN/CRE/004 | |
| Test objective | Check that the IUT accepts the creation of a <container> resource using structured resource identifier with hybrid addressing. | |
| Reference | ETSI TS 118 101 [1], table 9.3.1-1 | |
| Config Id | CF01 | |
| Parent Release | Release 2 | |
| PICS Selection | PICS_CSE, PICS_STRUCTURED_CSE_RELATIVE_RESOURCE_ID_FORMAT | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE and the IUT having created a <container> resource TARGET_RESOURCE_ADDRESS and the AE having privileges to perform CREATE operation on the resource TARGET_RESOURCE_ADDRESS } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid CREATE request from AE containing To set to HYBRID_HIERARCHICAL_RESOURCE_ADDRESS and From set to AE_ID and Resource Type set to 3 (container) and Content containing container resource representation } | IUT ← AE |
| | then { the IUT sends a Response message containing Response Status Code set to 2001 (CREATED) } | IUT → AE |

| TP Id | HYBRID_HIERARCHICAL_RESOURCE_ADDRESS |
|---|--------------------------------------|
| TP/oneM2M/CSE/GEN/CRE/004_CSR | STRUCTURED_CSE_RELATIVE_RESOURCE_ID |
| TP/oneM2M/CSE/GEN/CRE/004_SPR | SP_RELATIVE_RESOURCE_ID, (see note) |
| TP/oneM2M/CSE/GEN/CRE/004_ABS | ABSOLUTE_RESOURCE_ID, (see note) |
| NOTE: These addresses are constructed with the STRUCTURED_CSE_RELATIVE_RESOURCE_ID. | |

7.2.2.1.2 UPDATE Operation

TP/oneM2M/CSE/GEN/UPD/001

| | | |
|---------------------------|--|------------------|
| TP Id | TP/oneM2M/CSE/GEN/UPD/001 | |
| Test objective | Check that the IUT accepts the update of a <container> resource using unstructured resource identifier | |
| Reference | ETSI TS 118 101 [1], table 9.3.1-1 | |
| Config Id | CF01 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_CSE, PICS_UNSTRUCTURED_CSE_RELATIVE_RESOURCE_ID_FORMAT | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE and the IUT having created a resource TARGET_RESOURCE_ADDRESS of type RESOURCE_TYPE and the AE having privileges to perform UPDATE operation on the resource TARGET_RESOURCE_ADDRESS } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid UPDATE request from AE containing To set to NON_HIERARCHICAL_RESOURCE_ADDRESS and From set to AE_ID and Content containing container resource containing valid labels attribute } | IUT ← AE |
| | then { the IUT sends a Response message containing Response Status Code set to 2004 (UPDATED) } | IUT → AE |

| TP Id | NON_HIERARCHICAL_RESOURCE_ADDRESS |
|---|---------------------------------------|
| TP/oneM2M/CSE/GEN/UPD/001_CSR | UNSTRUCTURED_CSE_RELATIVE_RESOURCE_ID |
| TP/oneM2M/CSE/GEN/UPD/001_SPR | SP_RELATIVE_RESOURCE_ID, (see note) |
| TP/oneM2M/CSE/GEN/UPD/001_ABS | ABSOLUTE_RESOURCE_ID, (see note) |
| NOTE: These addresses are constructed with the Unstructured-CSE-Relative-Resource-ID. | |

TP/oneM2M/CSE/GEN/UPD/002

| | | |
|---------------------------|---|------------------|
| TP Id | TP/oneM2M/CSE/GEN/UPD/002 | |
| Test objective | Check that the IUT accepts the update of a <container> resource using structured resource identifier | |
| Reference | ETSI TS 118 101 [1], table 9.3.1-1 | |
| Config Id | CF01 | |
| Parent Release | PARENT_RELEASE | |
| PICS Selection | PICS_CSE, PICS_STRUCTURED_CSE_RELATIVE_RESOURCE_ID_FORMAT | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE and the IUT having created a resource TARGET_RESOURCE_ADDRESS of type RESOURCE_TYPE and the AE having privileges to perform UPDATE operation on the resource TARGET_RESOURCE_ADDRESS } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid UPDATE request from AE containing To set to HIERARCHICAL_RESOURCE_ADDRESS and From set to AE_ID and Content containing container resource containing valid labels attribute } | IUT ← AE |
| | then { the IUT sends a Response message containing Response Status Code set to 2004 (UPDATED) } | IUT → AE |

| TP Id | HIERARCHICAL_RESOURCE_ADDRESS |
|---|-------------------------------------|
| TP/oneM2M/CSE/GEN/UPD/002_CSR | STRUCTURED_CSE_RELATIVE_RESOURCE_ID |
| TP/oneM2M/CSE/GEN/UPD/002_SPR | SP_RELATIVE_RESOURCE_ID, (see note) |
| TP/oneM2M/CSE/GEN/UPD/002_ABS | ABSOLUTE_RESOURCE_ID, (see note) |
| NOTE: These addresses are constructed with the Structured-CSE-Relative-Resource-ID. | |

TP/oneM2M/CSE/GEN/UPD/003

| | | |
|---------------------------|---|------------------|
| TP Id | TP/oneM2M/CSE/GEN/UPD/003 | |
| Test objective | Check that the IUT accepts the update of a <container> resource using shortcut structured resource identifier | |
| Reference | ETSI TS 118 101 [1], table 9.3.1-1 | |
| Config Id | CF01 | |
| Parent Release | PARENT_RELEASE | |
| PICS Selection | PICS_CSE, PICS_STRUCTURED_CSE_RELATIVE_RESOURCE_ID_FORMAT | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE and the IUT having created a resource TARGET_RESOURCE_ADDRESS of type RESOURCE_TYPE and the AE having privileges to perform UPDATE operation on the resource TARGET_RESOURCE_ADDRESS } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid UPDATE request from AE containing To set to SHORTCUT_HIERARCHICAL_RESOURCE_ADDRESS and From set to AE_ID and Content containing container resource containing valid labels attribute } | IUT ← AE |
| | then { the IUT sends a Response message containing Response Status Code set to 2004 (UPDATED) } | IUT → AE |

| TP Id | SHORTCUT_HIERARCHICAL_RESOURCE_ADDRESS |
|---|---|
| TP/oneM2M/CSE/GEN/UPD/003_CSR | STRUCTURED_CSE_RELATIVE_RESOURCE_ID |
| TP/oneM2M/CSE/GEN/UPD/003_SPR | SP_RELATIVE_RESOURCE_ID, (see note) |
| TP/oneM2M/CSE/GEN/UPD/003_ABS | ABSOLUTE_RESOURCE_ID, (see note) |
| NOTE: These addresses are constructed with the Structured-CSE-Relative-Resource-ID. | |

TP/oneM2M/CSE/GEN/UPD/004

| | | |
|---------------------------|--|------------------|
| TP Id | TP/oneM2M/CSE/GEN/UPD/004 | |
| Test objective | Check that the IUT accepts the update of a <container> resource using structured resource identifier with hybrid addressing. | |
| Reference | ETSI TS 118 101 [1], table 9.3.1-1 | |
| Config Id | CF01 | |
| Parent Release | Release 2 | |
| PICS Selection | PICS_CSE, PICS_STRUCTURED_CSE_RELATIVE_RESOURCE_ID_FORMAT | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE and the IUT having created a resource TARGET_RESOURCE_ADDRESS of type RESOURCE_TYPE and the AE having privileges to perform UPDATE operation on the resource TARGET_RESOURCE_ADDRESS } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid UPDATE request from AE containing To set to HYBRID_HIERARCHICAL_RESOURCE_ADDRESS and From set to AE_ID and Content containing container resource containing valid labels attribute } | IUT ← AE |
| | then { the IUT sends a Response message containing Response Status Code set to 2004 (UPDATED) } | IUT → AE |

| TP Id | HYBRID_HIERARCHICAL_RESOURCE_ADDRESS |
|---|--------------------------------------|
| TP/oneM2M/CSE/GEN/UPD/004_CSR | STRUCTURED_CSE_RELATIVE_RESOURCE_ID |
| TP/oneM2M/CSE/GEN/UPD/004_SPR | SP_RELATIVE_RESOURCE_ID, (see note) |
| TP/oneM2M/CSE/GEN/UPD/004_ABS | ABSOLUTE_RESOURCE_ID, (see note) |
| NOTE: These addresses are constructed with the STRUCTURED_CSE_RELATIVE_RESOURCE_ID. | |

7.2.2.1.3 RETRIEVE Operation

TP/oneM2M/CSE/GEN/RET/001

| | |
|---------------------------|--|
| TP Id | TP/oneM2M/CSE/GEN/RET/001 |
| Test objective | Check that the IUT accepts the retrieval of a <container> resource using unstructured resource identifier |
| Reference | ETSI TS 118 101 [1], table 9.3.1-1 |
| Config Id | CF01 |
| Parent Release | Release 1 |
| PICS Selection | PICS_CSE, PICS_UNSTRUCTURED_CSE_RELATIVE_RESOURCE_ID_FORMAT |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE and the IUT having created a <container> resource TARGET_RESOURCE_ADDRESS and the AE having privileges to perform RETRIEVE operation on the resource TARGET_RESOURCE_ADDRESS } |

| Expected behaviour | Test events | Direction |
|--------------------|--|-----------|
| | when { the IUT receives a valid RETRIEVE request from AE containing To set to NON_HIERARCHICAL_RESOURCE_ADDRESS and From set to AE_ID and no Content } | IUT ← AE |
| | then { the IUT sends a Response message containing Response Status Code set to 2000 (OK) and Content containing container resource representation } | IUT → AE |

| TP Id | NON_HIERARCHICAL_RESOURCE_ADDRESS |
|---|---------------------------------------|
| TP/oneM2M/CSE/GEN/RET/001_CSR | UNSTRUCTURED_CSE_RELATIVE_RESOURCE_ID |
| TP/oneM2M/CSE/GEN/RET/001_SPR | SP_RELATIVE_RESOURCE_ID, (see note) |
| TP/oneM2M/CSE/GEN/RET/001_ABS | ABSOLUTE_RESOURCE_ID, (see note) |
| NOTE: These addresses are constructed with the Unstructured-CSE-Relative-Resource-ID. | |

TP/oneM2M/CSE/GEN/RET/002

| TP Id | TP/oneM2M/CSE/GEN/RET/002 | |
|---------------------------|---|-----------|
| Test objective | Check that the IUT accepts the retrieval of a <container> resource using structured resource identifier | |
| Reference | ETSI TS 118 101 [1], table 9.3.1-1 | |
| Config Id | CF01 | |
| Parent Release | PARENT_RELEASE | |
| PICS Selection | PICS_CSE, PICS_STRUCTURED_CSE_RELATIVE_RESOURCE_ID_FORMAT | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE and the IUT having created a <container> resource TARGET_RESOURCE_ADDRESS and the AE having privileges to perform RETRIEVE operation on the resource TARGET_RESOURCE_ADDRESS } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid RETRIEVE request from AE containing To set to HIERARCHICAL_RESOURCE_ADDRESS and From set to AE_ID and no Content } | IUT ← AE |
| | then { the IUT sends a Response message containing Response Status Code set to 2000 (OK) and Content containing container resource representation } | IUT → AE |

| TP Id | HIERARCHICAL_RESOURCE_ADDRESS |
|---|-------------------------------------|
| TP/oneM2M/CSE/GEN/RET/002_CSR | STRUCTURED_CSE_RELATIVE_RESOURCE_ID |
| TP/oneM2M/CSE/GEN/RET/002_SPR | SP_RELATIVE_RESOURCE_ID, (see note) |
| TP/oneM2M/CSE/GEN/RET/002_ABS | ABSOLUTE_RESOURCE_ID, (see note) |
| NOTE: These addresses are constructed with the Structured-CSE-Relative-Resource-ID. | |

TP/oneM2M/CSE/GEN/RET/003

| | | |
|---------------------------|---|------------------|
| TP Id | TP/oneM2M/CSE/GEN/RET/003 | |
| Test objective | Check that the IUT accepts the retrieval of a <container> resource using shortcut structured resource identifier | |
| Reference | ETSI TS 118 101 [1], table 9.3.1-1 | |
| Config Id | CF01 | |
| Parent Release | PARENT_RELEASE | |
| PICS Selection | PICS_CSE, PICS_STRUCTURED_CSE_RELATIVE_RESOURCE_ID_FORMAT | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE and the IUT having created a <container> resource TARGET_RESOURCE_ADDRESS and the AE having privileges to perform RETRIEVE operation on the resource TARGET_RESOURCE_ADDRESS } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid RETRIEVE request from AE containing To set to SHORTCUT_HIERARCHICAL_RESOURCE_ADDRESS and From set to AE_ID and no Content } | IUT ← AE |
| | then { the IUT sends a Response message containing Response Status Code set to 2000 (OK) and Content containing container resource representation } | IUT → AE |

| TP Id | SHORTCUT_HIERARCHICAL_RESOURCE_ADDRESS |
|---|---|
| TP/oneM2M/CSE/GEN/RET/003_CSR | STRUCTURED_CSE_RELATIVE_RESOURCE_ID |
| TP/oneM2M/CSE/GEN/RET/003_SPR | SP_RELATIVE_RESOURCE_ID, (see note) |
| TP/oneM2M/CSE/GEN/RET/003_ABS | ABSOLUTE_RESOURCE_ID, (see note) |
| NOTE: These addresses are constructed with the Structured-CSE-Relative-Resource-ID. | |

TP/oneM2M/CSE/GEN/RET/004

| | | |
|---------------------------|---|--|
| TP Id | TP/oneM2M/CSE/GEN/RET/004 | |
| Test objective | Check that the IUT accepts the retrieval of a <container> resource using structured resource identifier with hybrid addressing. | |
| Reference | ETSI TS 118 101 [1], table 9.3.1-1 | |
| Config Id | CF01 | |
| Parent Release | Release 2 | |
| PICS Selection | PICS_CSE, PICS_STRUCTURED_CSE_RELATIVE_RESOURCE_ID_FORMAT | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE and the IUT having created a <container> resource TARGET_RESOURCE_ADDRESS and the AE having privileges to perform RETRIEVE operation on the resource TARGET_RESOURCE_ADDRESS } | |

| Expected behaviour | Test events | Direction |
|--------------------|---|-----------|
| | when { the IUT receives a valid RETRIEVE request from AE containing To set to <i>HYBRID_HIERARCHICAL_RESOURCE_ADDRESS</i> and From set to AE_ID and no Content } | IUT ← AE |
| | then { the IUT sends a Response message containing Response Status Code set to 2000 (OK) and Content containing container resource representation } | IUT → AE |

| TP Id | HYBRID_HIERARCHICAL_RESOURCE_ADDRESS |
|---|--------------------------------------|
| TP/oneM2M/CSE/GEN/RET/004_CSR | STRUCTURED_CSE_RELATIVE_RESOURCE_ID |
| TP/oneM2M/CSE/GEN/RET/004_SPR | SP_RELATIVE_RESOURCE_ID, (see note) |
| TP/oneM2M/CSE/GEN/RET/004_ABS | ABSOLUTE_RESOURCE_ID, (see note) |
| NOTE: These addresses are constructed with the STRUCTURED_CSE_RELATIVE_RESOURCE_ID. | |

7.2.2.1.4 DELETE Operation

TP/oneM2M/CSE/GEN/DEL/001

| TP Id | TP/oneM2M/CSE/GEN/DEL/001 | |
|---------------------------|--|-----------|
| Test objective | Check that the IUT accepts the deletion of a <container> resource using unstructured resource identifier | |
| Reference | ETSI TS 118 101 [1], table 9.3.1-1 | |
| Config Id | CF01 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_CSE, PICS_UNSTRUCTURED_CSE_RELATIVE_RESOURCE_ID_FORMAT | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE and the IUT having created a <container> resource TARGET_RESOURCE_ADDRESS and the AE having privileges to perform DELETE operation on the resource TARGET_RESOURCE_ADDRESS } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid DELETE request from AE containing To set to <i>NON_HIERARCHICAL_RESOURCE_ADDRESS</i> and From set to AE_ID and no Content } | IUT ← AE |
| | then { the IUT sends a Response message containing Response Status Code set to 2002 (DELETED) } | IUT → AE |

| TP Id | NON_HIERARCHICAL_RESOURCE_ADDRESS |
|---|---------------------------------------|
| TP/oneM2M/CSE/GEN/DEL/001_CSR | UNSTRUCTURED_CSE_RELATIVE_RESOURCE_ID |
| TP/oneM2M/CSE/GEN/DEL/001_SPR | SP_RELATIVE_RESOURCE_ID, (see note) |
| TP/oneM2M/CSE/GEN/DEL/001_ABS | ABSOLUTE_RESOURCE_ID, (see note) |
| NOTE: These addresses are constructed with the Unstructured-CSE-Relative-Resource-ID. | |

TP/oneM2M/CSE/GEN/DEL/002

| | | |
|---------------------------|---|------------------|
| TP Id | TP/oneM2M/CSE/GEN/DEL/002 | |
| Test objective | Check that the IUT accepts the deletion of a <container> resource using structured resource identifier | |
| Reference | ETSI TS 118 101 [1], table 9.3.1-1 | |
| Config Id | CF01 | |
| Parent Release | PARENT_RELEASE | |
| PICS Selection | PICS_CSE, PICS_STRUCTURED_CSE_RELATIVE_RESOURCE_ID_FORMAT | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE and the IUT having created a <container> resource TARGET_RESOURCE_ADDRESS and the AE having privileges to perform DELETE operation on the resource TARGET_RESOURCE_ADDRESS } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid DELETE request from AE containing To set to HIERARCHICAL_RESOURCE_ADDRESS and From set to AE_ID and no Content } | IUT ← AE |
| | then { the IUT sends a Response message containing Response Status Code set to 2002 (DELETED) } | IUT → AE |

| TP Id | HIERARCHICAL_RESOURCE_ADDRESS |
|-------------------------------|-------------------------------------|
| TP/oneM2M/CSE/GEN/DEL/002_CSR | STRUCTURED_CSE_RELATIVE_RESOURCE_ID |
| TP/oneM2M/CSE/GEN/DEL/002_SPR | SP_RELATIVE_RESOURCE_ID, (see note) |
| TP/oneM2M/CSE/GEN/DEL/002_ABS | ABSOLUTE_RESOURCE_ID, (see note) |

NOTE: These addresses are constructed with the Structured-CSE-Relative-Resource-ID.

TP/oneM2M/CSE/GEN/DEL/003

| | | |
|---------------------------|---|------------------|
| TP Id | TP/oneM2M/CSE/GEN/DEL/003 | |
| Test objective | Check that the IUT accepts the deletion of a <container> resource using shortcut structured resource identifier | |
| Reference | ETSI TS 118 101 [1], table 9.3.1-1 | |
| Config Id | CF01 | |
| Parent Release | PARENT_RELEASE | |
| PICS Selection | PICS_CSE, PICS_STRUCTURED_CSE_RELATIVE_RESOURCE_ID_FORMAT | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE and the IUT having created a <container> resource TARGET_RESOURCE_ADDRESS and the AE having privileges to perform DELETE operation on the resource TARGET_RESOURCE_ADDRESS } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid DELETE request from AE containing To set to SHORTCUT_HIERARCHICAL_RESOURCE_ADDRESS and From set to AE_ID and no Content } | IUT ← AE |
| | then { the IUT sends a Response message containing Response Status Code set to 2002 (DELETED) } | IUT → AE |

| TP Id | SHORTCUT_HIERARCHICAL_RESOURCE_ADDRESS |
|---|--|
| TP/oneM2M/CSE/GEN/DEL/003_CSR/ | STRUCTURED_CSE_RELATIVE_RESOURCE_ID |
| TP/oneM2M/CSE/GEN/DEL/003_SPR | SP_RELATIVE_RESOURCE_ID, (see note) |
| TP/oneM2M/CSE/GEN/DEL/003_ABS | ABSOLUTE_RESOURCE_ID, (see note) |
| NOTE: These addresses are constructed with the Structured-CSE-Relative-Resource-ID. | |

TP/oneM2M/CSE/GEN/DEL/004

| TP Id | TP/oneM2M/CSE/GEN/DEL/004 | |
|---------------------------|---|------------------|
| Test objective | Check that the IUT accepts the deletion of a <container> resource using structured resource identifier with hybrid addressing. | |
| Reference | ETSI TS 118 101 [1], table 9.3.1-1 | |
| Config Id | CF01 | |
| Parent Release | Release 2 | |
| PICS Selection | PICS_CSE, PICS_STRUCTURED_CSE_RELATIVE_RESOURCE_ID_FORMAT | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE and the IUT having created a <container> resource TARGET_RESOURCE_ADDRESS and the AE having privileges to perform DELETE operation on the resource TARGET_RESOURCE_ADDRESS } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid DELETE request from AE containing To set to HYBRID_HIERARCHICAL_RESOURCE_ADDRESS and From set to AE_ID and no Content } | IUT ← AE |
| | then { the IUT sends a Response message containing Response Status Code set to 2002 (DELETED) } | IUT → AE |

| TP Id | HYBRID_HIERARCHICAL_RESOURCE_ADDRESS |
|---|--------------------------------------|
| TP/oneM2M/CSE/GEN/DEL/004_CSR | STRUCTURED_CSE_RELATIVE_RESOURCE_ID |
| TP/oneM2M/CSE/GEN/DEL/004_SPR | SP_RELATIVE_RESOURCE_ID, (see note) |
| TP/oneM2M/CSE/GEN/DEL/004_ABS | ABSOLUTE_RESOURCE_ID, (see note) |
| NOTE: These addresses are constructed with the STRUCTURED_CSE_RELATIVE_RESOURCE_ID. | |

7.2.2.2 Registration (REG)

7.2.2.2.1 RETRIEVE Operation

TP/oneM2M/CSE/REG/RET/001

| TP Id | TP/oneM2M/CSE/REG/RET/001 |
|---------------------------|---|
| Test objective | Check that the IUT accepts a retrieval request of <CSEBase> resource and responds with all attributes that have multiplicity equals to 1. |
| Reference | ETSI TS 118 101 [1], clause 10.2.3.2 and clause 9.6.3, ETSI TS 118 104 [2], clause 7.4.3.2.2 |
| Config Id | CF01 |
| Parent Release | Release 1 |
| PICS Selection | PICS_CSE |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE and the AE having privileges to perform RETRIEVE operation on the CSEBase resource } |

| Expected behaviour | Test events | Direction |
|--------------------|---|-----------|
| | when { the IUT receives a valid RETRIEVE Request from AE containing To set to CSEBASE_RESOURCE_ADDRESS and From set to AE_ID and no Content } | IUT ← AE |
| | then { the IUT sends a valid Response containing Response Status Code set to 2000 (OK) and Content containing CSEBase resource representation } | IUT → AE |

TP/oneM2M/CSE/REG/RET/002

| TP Id | TP/oneM2M/CSE/REG/RET/002 | |
|---------------------------|---|-----------|
| Test objective | Check that the IUT accepts a retrieval request of <CSEBase> resource with the optional <i>ATTRIBUTE</i> . | |
| Reference | ETSI TS 118 101 [1], clause 10.2.3.2 and clause 9.6.3, ETSI TS 118 104 [2], clause 7.4.3.2.2 | |
| Config Id | CF01 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE and the AE having privileges to perform RETRIEVE operation on the CSEBase resource and the IUT having a CSEBase resource containing the valid <i>ATTRIBUTE</i> attribute } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid RETRIEVE Request from AE containing To set to CSEBASE_RESOURCE_ADDRESS and From set to AE_ID and no Content } | IUT ← AE |
| | then { the IUT sends a valid Response containing Response Status Code set to 2000 (OK) and Content containing CSEBase resource containing valid <i>ATTRIBUTE</i> attribute } | IUT → AE |

| TP Id | PICS Selection | Reference | ATTRIBUTE |
|-------------------------------|----------------|-------------------------------|-----------|
| TP/oneM2M/CSE/REG/RET/002_CST | PICS_CB_CST | ETSI TS 118 101, clause 9.6.3 | cseType |
| TP/oneM2M/CSE/REG/RET/002_NL | PICS_CB_NL | ETSI TS 118 101, clause 9.6.3 | nodeLink |

TP/oneM2M/CSE/REG/RET/003

| | | | |
|---------------------------|---|--|--|
| TP Id | TP/oneM2M/CSE/REG/RET/003 | | |
| Test objective | Check that the IUT accepts a retrieval request of <AE> resource with attributes multiplicity equals to 1. | | |
| Reference | ETSI TS 118 101 [1], clause 10.2.1 and clause 9.6.5, ETSI TS 118 104 [2], clause 7.4.5.2.2 | | |
| Config Id | CF01 | | |
| Parent Release | Release 1 | | |
| PICS Selection | PICS_CSE | | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE and the AE having privileges to perform RETRIEVE operation on the AE resource } | | |

| Expected behaviour | Test events | Direction |
|--------------------|--|-----------|
| | when { the IUT receives a valid RETRIEVE Request from AE containing To set to AE_RESOURCE_ADDRESS and From set to AE_ID } | IUT ← AE |
| | then { the IUT sends a valid Response containing Response Status Code set to 2000 (OK) and Content containing AE resource representation } | IUT → AE |

TP/oneM2M/CSE/REG/RET/004

| TP Id | TP/oneM2M/CSE/REG/RET/004 | |
|---------------------------|---|-----------|
| Test objective | Check that the IUT accepts a retrieval request of <AE> resource with optional <i>ATTRIBUTE</i> . | |
| Reference | ETSI TS 118 101 [1], clause 10.2.1.2 and clause 9.6.5, ETSI TS 118 104 [2], clause 7.4.5.2.2 | |
| Config Id | CF01 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE containing valid <i>ATTRIBUTE</i> attribute and the AE having privileges to perform RETRIEVE operation on the AE resource } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid RETRIEVE Request from AE containing To set to AE_RESOURCE_ADDRESS and From set to AE_ID } | IUT ← AE |
| | then { the IUT sends a valid Response containing Response Status Code set to 2000 (OK) and Content containing AE resource containing <i>ATTRIBUTE</i> attribute } | IUT → AE |

| TP Id | PICS Selection | Reference | ATTRIBUTE |
|-------------------------------|----------------|-----------------------------------|----------------------|
| TP/oneM2M/CSE/REG/RET/004_LBL | PICS_AE_LBL | ETSI TS 118 101 [1], clause 9.6.5 | labels |
| TP/oneM2M/CSE/REG/RET/004_APN | PICS_AE_APN | ETSI TS 118 101 [1], clause 9.6.5 | appName |
| TP/oneM2M/CSE/REG/RET/004_POA | PICS_AE_POA | ETSI TS 118 101 [1], clause 9.6.5 | pointOfAccess |
| TP/oneM2M/CSE/REG/RET/004_NL | PICS_AE_NL | ETSI TS 118 101 [1], clause 9.6.5 | nodeLink |
| TP/oneM2M/CSE/REG/RET/004_CSZ | PICS_AE_CSZ | ETSI TS 118 101 [1], clause 9.6.5 | contentSerialization |

TP/oneM2M/CSE/REG/RET/005

| | | |
|---------------------------|--|--|
| TP Id | TP/oneM2M/CSE/REG/RET/005 | |
| Test objective | Check that the IUT accepts a retrieval request of <CSEBase> resource including the cseType attribute | |
| Reference | ETSI TS 118 101 [1], clause 10.2.3.2 and clause 9.6.3, ETSI TS 118 104 [2], clause 7.4.3.2.2 | |
| Config Id | CF01 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_IN_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE and the AE having privileges to perform RETRIEVE operation on the CSEBase resource } | |

| Expected behaviour | Test events | Direction |
|--------------------|---|-----------|
| | when { the IUT receives a valid RETRIEVE Request from AE containing To set to CSEBASE_RESOURCE_ADDRESS and From set to AE_ID } | IUT ← AE |
| | then { the IUT sends a valid Response containing Response Status Code set to 2000 (OK) and Content containing CSEBase resource containing cseType attribute set to 1 (IN_CSE) } | IUT → AE |

TP/oneM2M/CSE/REG/RET/006

| | | |
|---------------------------|---|------------------|
| TP Id | TP/oneM2M/CSE/REG/RET/006 | |
| Test objective | Check that the IUT accepts a retrieval request of <remoteCSE> resource. | |
| Reference | ETSI TS 118 101 [1], clause 10.1.1.2.1 and clause 9.6.4 ETSI TS 118 104 [2], clause 7.4.4.2.1 | |
| Config Id | CF01 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the ORIGINATOR and the ORIGINATOR having privileges to perform RETRIEVE operation on the remoteCSE resource } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid RETRIEVE Request from ORIGINATOR containing To set to REMOTECSE_RESOURCE_ADDRESS and From set to ORIGINATOR_ID } | IUT ← ORIGINATOR |
| | then { the IUT sends a valid Response containing Response Status Code set to 2000 (OK) and Content containing remoteCSE resource representation } | IUT → ORIGINATOR |

TP/oneM2M/CSE/REG/RET/007

| | | |
|---------------------------|--|------------------|
| TP Id | TP/oneM2M/CSE/REG/RET/007 | |
| Test objective | Check that the IUT accepts a retrieval request of <remoteCSE> resource with optional <i>ATTRIBUTE</i> | |
| Reference | ETSI TS 118 101 [1], clause 10.1.1.2.1 and clause 9.6.4, ETSI TS 118 104 [2], clause 7.4.4.2.1 | |
| Config Id | CF01 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the ORIGINATOR and the ORIGINATOR having privileges to perform RETRIEVE operation on the remoteCSE resource } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid RETRIEVE Request from ORIGINATOR containing To set to REMOTECSE_RESOURCE_ADDRESS and From set to ORIGINATOR_ID } | IUT ← ORIGINATOR |
| | then { the IUT sends a valid Response containing Response Status Code set to 2000 (OK) and Content containing remoteCSE resource containing <i>ATTRIBUTE</i> attribute } | IUT → ORIGINATOR |

| TP Id | PICS Selection | Reference | ATTRIBUTE |
|-------------------------------|----------------|-----------------------------------|---------------|
| TP/oneM2M/CSE/REG/RET/007_LBL | PICS_CSR_LBL | ETSI TS 118 101 [1], clause 9.6.4 | labels |
| TP/oneM2M/CSE/REG/RET/007_CST | PICS_CSR_CST | ETSI TS 118 101 [1], clause 9.6.4 | cseType |
| TP/oneM2M/CSE/REG/RET/007_POA | PICS_CSR_POA | ETSI TS 118 101 [1], clause 9.6.4 | pointOfAccess |
| TP/oneM2M/CSE/REG/RET/007_NL | PICS_CSR_NL | ETSI TS 118 101 [1], clause 9.6.4 | nodeLink |

TP/oneM2M/CSE/REG/RET/008

| | | |
|---------------------------|---|--|
| TP Id | TP/oneM2M/CSE/REG/RET/008 | |
| Test objective | Check that the IUT accepts a retrieval request of <CSEBase> resource and responds with supportedResourceTypes attribute containing a list of the supported resources and pointOfAccess containing the list of physical addresses to be used by Registree to connect to this CSE (e.g. IP address, FQDN). | |
| Reference | ETSI TS 118 101 [1], clause 10.2.3.2 and clause 9.6.3, ETSI TS 118 104 [2], clause 7.4.3.2.2 | |
| Config Id | CF01 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE and the AE having privileges to perform RETRIEVE operation on the CSEBase resource } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid RETRIEVE Request from AE containing To set to CSEBASE_RESOURCE_ADDRESS and From set to AE_ID } then { the IUT sends a valid Response containing Response Status Code set to 2000 (OK) and Content containing CSEBase resource containing supportedResourceType set to PX_SRT pointOfAccess set to PX_POA } | IUT ← AE IUT → AE |

TP/oneM2M/CSE/REG/RET/009

| | | |
|---------------------------|---|---|
| TP Id | TP/oneM2M/CSE/REG/RET/009 | |
| Test objective | Check that IUT sends a <remoteCSE> retrieve request on TARGET_REMOTE_CSE_ADDRESS | |
| Reference | ETSI TS 118 101 [1], clause 10.2.2.2, ETSI TS 118 104 [2], clause 7.4.5.2.3 | |
| Config Id | CF04 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having created a resource TARGET_REMOTE_CSE_ADDRESS and the IUT having privileges to perform RETRIEVE operation on the resource TARGET_REMOTE_CSE_ADDRESS } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT is triggered to send a valid RETRIEVE Request containing To set to TARGET_REMOTE_CSE_ADDRESS } then { the IUT sends a valid RETRIEVE Request containing To set to TARGET_REMOTE_CSE_ADDRESS and From set to CSE_ID and no Content } | NA IUT → CSE |

TP/oneM2M/CSE/REG/RET/010

| | | |
|---------------------------|--|--|
| TP Id | TP/oneM2M/CSE/REG/RET/010 | |
| Test objective | Check that IUT accepts a <remoteCSE> retrieve request | |
| Reference | ETSI TS 118 101 [1], clause 10.2.2.2, ETSI TS 118 104 [2], clause 7.4.5.2.3 | |
| Config Id | CF04 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having created a resource TARGET_REMOTE_CSE_ADDRESS and the IUT having privileges to perform RETRIEVE operation on the resource TARGET_REMOTE_CSE_ADDRESS } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid RETRIEVE Request containing To set to TARGET_REMOTE_CSE_ADDRESS and From set to CSE_ID and no Content } then { the IUT sends a valid Response containing Response Status Code set to 2000 (OK) and Content containing remoteCSE resource representation } | IUT ← CSE IUT → CSE |

7.2.2.2.2 CREATE Operation

TP/oneM2M/CSE/REG/CRE/001

| | | |
|---------------------------|---|--|
| TP Id | TP/oneM2M/CSE/REG/CRE/001 | |
| Test objective | Check that the IUT accepts a create request of <AE> resource with attributes multiplicity equals to 1 and provided preprovisioned SP_RELATIVE_AE_ID | |
| Reference | ETSI TS 118 101 [1], clause 10.1.1.2.2 case b, ETSI TS 118 104 [2], clause 7.4.5.2.1 | |
| Config Id | CF01 | |
| Parent Release | PARENT_RELEASE | |
| PICS Selection | PICS_SELECTION | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having preconfigured AE_ID_stem } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid CREATE Request from AE containing To set to CSEBASE_RESOURCE_ADDRESS and From set to SP_RELATIVE_AE_ID and Resource Type set to 2(AE) and Content containing AE resource representation } then { the IUT sends a valid Response containing Response Status Code set to 2001 (CREATED) and Content containing AE resource representation } | IUT ← AE IUT → AE |

| TP Id | PARENT_RELEASE | SP_RELATIVE_AE_ID | PICS_SELECTION |
|-------------------------------|----------------|-------------------|----------------|
| TP/oneM2M/CSE/REG/CRE/001_CAЕ | Release 1 | Starting with "C" | PICS_CSE |
| TP/oneM2M/CSE/REG/CRE/001_SAE | Release 2 | Starting with "S" | PICS_IN_CSE |

TP/oneM2M/CSE/REG/CRE/002

| | | |
|---------------------------|--|--|
| TP Id | TP/oneM2M/CSE/REG/CRE/002 | |
| Test objective | Check that the IUT accepts a create request of <AE> resource with attributes multiplicity equals to 1 and provided preprovisioned AE_ID_STEM of AE-ID-Stem format | |
| Reference | ETSI TS 118 101 [1], clause 10.1.1.2.2 case d, ETSI TS 118 104 [2], clause 7.4.5.2.1 | |
| Config Id | CF01 | |
| Parent Release | PARENT_RELEASE | |
| PICS Selection | PICS_SELECTION | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having preconfigured AE_ID_stem } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid CREATE Request from AE containing To set to CSEBASE_RESOURCE_ADDRESS and From set to AE_ID_STEM and Resource Type set to 2 (AE) and Content containing AE resource representation } then { the IUT sends a valid Response containing Response Status Code set to 2001 (CREATED) and Content containing AE resource representation } | IUT ← AE IUT → AE |

| TP Id | PARENT_RELEASE | AE_ID_STEM | PICS_SELECTION |
|-------------------------------|-----------------------|-------------------|-----------------------|
| TP/oneM2M/CSE/REG/CRE/002_CAЕ | Release 1 | Starting with "C" | PICS_CSE |
| TP/oneM2M/CSE/REG/CRE/002_SAE | Release 2 | Starting with "S" | PICS_IN_CSE |

TP/oneM2M/CSE/REG/CRE/003

| | | |
|---------------------------|--|--|
| TP Id | TP/oneM2M/CSE/REG/CRE/003 | |
| Test objective | Check that the IUT accepts a create request of <AE> resource with attributes multiplicity equals to 1 and provided preprovisioned S-AE-ID-STEM | |
| Reference | ETSI TS 118 101 [1], clause 10.1.1.2.2 case b, ETSI TS 118 104 [2], clause 7.4.5.2.1 | |
| Config Id | CF02 | |
| Parent Release | Release 2 | |
| PICS Selection | PICS_MN_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered to the IN-CSE } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid CREATE Request from AE containing From set to S-AE-ID-STEM and Resource Type set to 2(AE) and Content containing AE resource representation } then{ the IUT sends a valid CREATE Request to IN-CSE containing From set to SP-RELATIVE-AE-ID and Content containing AEAnnc resource containing link attribute set to SP-RELATIVE-AE-ID and labels attribute set to "Credential-ID:None" } | IUT ← AE IUT → IN-CSE |
| NOTE: | SP-RELATIVE-AE-ID = {SP-RELATIVE-CSE-ID}/{S-AE-ID-STEM } S-AE-ID-STEM = Valid AE-ID-Stem starting with "S". | |

TP/oneM2M/CSE/REG/CRE/004

| | | |
|---------------------------|---|--|
| TP Id | TP/oneM2M/CSE/REG/CRE/004 | |
| Test objective | Check that the IUT rejects an AE registration (allowed App-ID, not allowed C-AE-ID-STEM provided by AE) | |
| Reference | ETSI TS 118 101 [1], clause 10.1.1.2.2 step 3 and clause 9.6.19 | |
| Config Id | CF01 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT not allowing to register an AE containing allowed App-ID attribute indicating APP-ID and no t allowed AE-ID attribute indicating C-AE-ID-STEM } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid CREATE Request from AE containing Resource Type set to 2 (AE) and From set to C-AE-ID-STEM and Content containing AE resource containing App-ID attribute set to APP-ID } then { the IUT does not create the AE resource and the IUT sends a valid Response containing Response Status Code set to 4107 (SECURITY_ASSOCIATION_REQUIRED) } | IUT ← AE IUT → AE |

TP/oneM2M/CSE/REG/CRE/005

| | | |
|---------------------------|---|--|
| TP Id | TP/oneM2M/CSE/REG/CRE/005 | |
| Test objective | Check that the IUT accepts an AE registration (allowed App-ID, S-AE-ID-STEM not provided by AE) | |
| Reference | ETSI TS 118 101 [1], clause 10.1.1.2.2 case a, and clause 9.6.19 | |
| Config Id | CF02 | |
| Parent Release | Release 2 | |
| PICS Selection | PICS_MN_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered to the IN-CSE and and the IUT allowing to register an AE containing App-ID attribute set to APP-ID } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid CREATE Request from AE containing Resource Type set to 2 (AE) and From set to "S" and Content containing AE resource containing App-ID attribute set to APP-ID } then { the IUT sends a valid CREATE Request to the IN-CSE containing Resource Type set to 10002 (AEAnnc) and From set to SP-RELATIVE-CSE-ID followed by '/S' and Content containing AEAnnc resource containing App-ID attribute set to APP-ID and valid link attribute and labels attribute indicating 'Credential-ID:None' } | IUT ← AE IUT → IN-CSE |

TP/oneM2M/CSE/REG/CRE/006

| | | |
|---------------------------|---|--|
| TP Id | TP/oneM2M/CSE/REG/CRE/006 | |
| Test objective | Check that the IUT accepts a create request of <AE> resource with attributes multiplicity equals to 1 and provided character 'S' in AE_ID_Stem | |
| Reference | ETSI TS 118 101 [1], clause 10.1.1.2.2 case a, ETSI TS 118 104 [2], clause 7.4.5.2.1 | |
| Config Id | CF02 | |
| Parent Release | Release 2 | |
| PICS Selection | PICS_MN_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered to the IN-CSE } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid CREATE Request from AE containing From set to character 'S' and Resource Type set to 2(AE) and Content containing AE resource representation } then{ the IUT sends a valid CREATE Request to IN_CSE containing From set to SP-RELATIVE-CSE-ID followed by '/S' and Content containing AEAnnc resource containing link attribute set to SP-RELATIVE-AE-ID } | IUT ← AE IUT → IN-CSE |
| NOTE: | SP-RELATIVE-AE-ID = {SP-RELATIVE-CSE-ID}/{AE_ID_Stem} AE_ID_Stem = "S". | |

TP/oneM2M/CSE/REG/CRE/007

| | | |
|---------------------------|--|---|
| TP Id | TP/oneM2M/CSE/REG/CRE/007 | |
| Test objective | Check that the IUT accepts an response of AEANNC create request during AE registration with provided character 'S' in AE_ID_Stem | |
| Reference | ETSI TS 118 101 [1], clause 10.1.1.2.2 case a, ETSI TS 118 104 [2], clause 7.4.5.2.1 | |
| Config Id | CF02 | |
| Parent Release | Release 2 | |
| PICS Selection | PICS_MN_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered to the IN-CSE and the IUT having received a valid AE create request containing From set to "S" and the IUT having sent a valid AEANNC create to IN_CSE } | |
| Expected behaviour | Test events | Direction |
| | when{ the IUT receives a valid Response containing Response Status Code set to 2001 (CREATED) and Content containing AEAnnc resource containing link attribute set to SP-RELATIVE-AE-ID } then { the IUT sends a valid Response containing Response Status Code set to 2001 (CREATED) and Content containing AE resource containing ResourceID attribute set to S-AE-ID-STEM and AE-ID attribute set to S-AE-ID-STEM } | IUT <- IN-CSE IUT → AE |
| NOTE: | SP-RELATIVE-AE-ID = {SP-RELATIVE-CSE-ID}/{S-AE-ID-STEM} S-AE-ID-STEM = Valid AE-ID-Stem assigned by IN-CSE. | |

TP/oneM2M/CSE/REG/CRE/008

| | | |
|---------------------------|--|------------------|
| TP Id | TP/oneM2M/CSE/REG/CRE/008 | |
| Test objective | Check that the IUT accepts an AE re-registration (allowed M2M-SP-assigned AE-ID, S-AE-ID-STEM provided by AE), transfer request to the IN-CSE | |
| Reference | ETSI TS 118 101 [1], clause 10.1.1.2.2 case b, step 5 and clause 9.6.19 | |
| Config Id | CF02 | |
| Parent Release | Release 2 | |
| PICS Selection | PICS_MN_CSE | |
| Initial conditions | with { the IUT being in the "initial state" the IUT having registered to the IN-CSE and the AE having already been registered containing AE-ID set to S-AE-ID-STEM and the AE having deregistered } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid CREATE Request from AE containing Resource Type set to 2 (AE) and From set to S-AE-ID-STEM and Content containing AE resource representation } | IUT ← AE |
| | then { the IUT sends a valid UPDATE Request to the IN-CSE containing From set to SP-RELATIVE-AE-ID and Content containing AEAnnc resource containing App-ID attribute set to APP-ID and link attribute set to SP-RELATIVE-AE-ID and labels attribute indicating 'Credential-ID:None' } | IUT → IN-CSE |
| NOTE: | SP-RELATIVE-AE-ID = {SP-RELATIVE-CSE-ID}/{S-AE-ID-STEM } S-AE-ID-STEM = Value starting with "S" assigned by IN-CSE. | |

TP/oneM2M/CSE/REG/CRE/009

| | | |
|---------------------------|--|------------------|
| TP Id | TP/oneM2M/CSE/REG/CRE/009 | |
| Test objective | Check that the IUT accepts an AE re-registration (allowed M2M-SP-assigned AE-ID, S-AE-ID-STEM provided by AE), communication between MN-CSE and IN-CSE | |
| Reference | ETSI TS 118 101 [1], clause 10.1.1.2.2 case b, step 5-8 | |
| Config Id | CF03 | |
| Parent Release | Release 2 | |
| PICS Selection | PICS_IN_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the MN-CSE and the AE having already been registered containing AE-ID set to S-AE-ID-STEM and the AE having deregistered } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid UPDATE Request from the MN-CSE containing To set to AEANNC_RESOURCE_ADDRESS and From set to SP-RELATIVE-AE-ID and Content containing AEAnnc resource containing link attribute set to SP-RELATIVE-AE-ID and labels attribute indicating 'Credential-ID:None' } | IUT ← MN-CSE |
| | then { the IUT updates the AEANNC_RESOURCE_ADDRESS resource and the IUT sends a valid Response to MN-CSE containing Response Status Code set to 2004 (UPDATED) and Content containing AEAnnc resource containing link attribute set to SP-RELATIVE-AE-ID and labels attribute indicating 'Credential-ID:None' } | IUT → MN-CSE |
| NOTE: | SP-RELATIVE-AE-ID = {SP-RELATIVE-CSE-ID}/{S-AE-ID-STEM } S-AE-ID-STEM = Value starting with "S" assigned by IN-CSE. | |

TP/oneM2M/CSE/REG/CRE/010

| | | |
|---------------------------|--|------------------|
| TP Id | TP/oneM2M/CSE/REG/CRE/010 | |
| Test objective | Check that the IUT accepts an AE re-registration (allowed M2M-SP-assigned AE-ID, S-AE-ID-STEM provided by AE), transfer response to the AE | |
| Reference | ETSI TS 118 101 [1], clause 10.1.1.2.2 case b, step 8 | |
| Config Id | CF02 | |
| Parent Release | Release 2 | |
| PICS Selection | PICS_MN_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the MN-CSE and the AE having already been registered containing AE-ID set to S-AE-ID-STEM and the AE having deregistered and the AE having sent a registration containing From set to S-AE-ID-STEM and the IUT having sent a valid AEAnnc UPDATE Request to IN-CSE } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid UPDATE Response from IN-CSE containing Response Status Code set to 2004 (UPDATED) and Content containing AEAnnc resource containing link attribute set to SP-RELATIVE-AE-ID and labels attribute indicating 'Credential-ID:None' } | IUT ← IN-CSE |
| | then { the IUT sends a valid Response to the AE containing Response Status Code set to 2001 (CREATED) and Content containing AE resource containing AE-ID attribute set to S-AE-ID-STEM } | IUT → AE |
| NOTE: | SP-RELATIVE-AE-ID = {SP-RELATIVE-CSE-ID}/{S-AE-ID-STEM } S-AE-ID-STEM = Value starting with "S" assigned by IN-CSE. | |

TP/oneM2M/CSE/REG/CRE/011

| | | |
|---------------------------|--|------------------|
| TP Id | TP/oneM2M/CSE/REG/CRE/011 | |
| Test objective | Check that the IUT accepts a create request of <AE> resource with attributes multiplicity equals to 1 and asking AE_ID_Stem by indicating AE_ID_Stem starting with character 'C'. | |
| Reference | ETSI TS 118 101 [1], clause 10.1.1.2.2 case c, ETSI TS 118 104 [2], clause 7.4.5.2.1 | |
| Config Id | CF01 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having preconfigured AE_ID_stem } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid CREATE Request from AE containing To set to CSEBASE_RESOURCE_ADDRESS and From set to 'C' and Resource Type set to 2(AE) and Content containing AE resource representation } | IUT ← AE |
| | then { the IUT sends a valid Response containing Response Status Code set to 2001 (CREATED) and Content containing AE resource containing ResourceID attribute indicating a value starting with 'C' } | IUT → AE |

TP/oneM2M/CSE/REG/CRE/012

| | | |
|---------------------------|--|------------------|
| TP Id | TP/oneM2M/CSE/REG/CRE/012 | |
| Test objective | Check that the IUT accepts an AE registration with the optional attribute <i>OPTIONAL_ATTRIBUTE</i> provided | |
| Reference | ETSI TS 118 101 [1], clause 10.1.1.2.2 and table 9.6.5-2 | |
| Config Id | CF01 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having a CSEBase resource } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid CREATE Request from AE containing Resource Type set to 2 (AE) and From set to AE_ID and Content containing AE resource containing valid <i>OPTIONAL_ATTRIBUTE</i> attribute } | IUT ← AE |
| | then { the IUT sends a valid Response containing Response Status Code set to 2001 (CREATED) and Content containing AE resource containing valid <i>OPTIONAL_ATTRIBUTE</i> attribute } | IUT → AE |

| TP Id | PICS Selection | Reference | OPTIONAL_ATTRIBUTE |
|----------------------------------|----------------|------------------------------------|--------------------|
| TP/oneM2M/CSE/REG/CRE/012_AE/LBL | PICS_AE_LBL | ETSI TS 118 101 [1], table 9.6.5-2 | labels |
| TP/oneM2M/CSE/REG/CRE/012_AE/APN | PICS_AE_APN | ETSI TS 118 101 [1], table 9.6.5-2 | AppName |
| TP/oneM2M/CSE/REG/CRE/012_AE/POA | PICS_AE_POA | ETSI TS 118 101 [1], table 9.6.5-2 | pointOfAccess |
| TP/oneM2M/CSE/REG/CRE/012_AE/NL | PICS_AE_NL | ETSI TS 118 101 [1], table 9.6.5-2 | nodeLink |
| TP/oneM2M/CSE/REG/CRE/012_AE/OR | PICS_AE_OR | ETSI TS 118 101 [1], table 9.6.5-2 | ontologyRef |

TP/oneM2M/CSE/REG/CRE/013

| TP Id | TP/oneM2M/CSE/REG/CRE/013 | |
|---------------------------|---|------------------|
| Test objective | Check that the IUT accepts a create request of <remoteCSE> resource with <i>OPTIONAL_ATTRIBUTE</i> . | |
| Reference | ETSI TS 118 101 [1], clause 10.1.1.2.1 and clause 9.6.4, ETSI TS 118 104 [2], clause 7.4.4.2.1 | |
| Config Id | CF04 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid CREATE Request from CSE containing To set to CSEBASE_RESOURCE_ADDRESS and From set to CSE_ID and Resource Type set to 16(remoteCSE) and Content containing remoteCSE resource representation containing <i>OPTIONAL_ATTRIBUTE</i> attribute } | IUT ← CSE |
| | then { the IUT sends a valid Response containing Response Status Code set to 2001 (CREATED) and Content containing remoteCSE resource representation } | IUT → CSE |

| TP Id | PICS Selection | Reference | OPTIONAL_ATTRIBUTE |
|-------------------------------|----------------|-----------------------------------|--------------------|
| TP/oneM2M/CSE/REG/CRE/013_LBL | PICS_CSR_LBL | ETSI TS 118 101 [1], clause 9.6.4 | labels |
| TP/oneM2M/CSE/REG/CRE/013_CST | PICS_CSR_CST | ETSI TS 118 101 [1], clause 9.6.4 | cseType |
| TP/oneM2M/CSE/REG/CRE/013_POA | PICS_CSR_POA | ETSI TS 118 101 [1], clause 9.6.4 | pointOfAccess |
| TP/oneM2M/CSE/REG/CRE/013_NL | PICS_CSR_NL | ETSI TS 118 101 [1], clause 9.6.4 | nodeLink |

TP/oneM2M/CSE/REG/CRE/014

| | | |
|---------------------------|--|------------------|
| TP Id | TP/oneM2M/CSE/REG/CRE/014 | |
| Test objective | Check that the IUT retargets the request to the remoteCSE according to pointOfAccess in the <remoteCSE> resource. | |
| Reference | ETSI TS 118 101 [1], clause 9.6.4 and clause 9.3.2.2.3, ETSI TS 118 104 [2], clause 6.2.3 | |
| Config Id | CF02 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having created the remoteCSE resource containing POINT_OF_ACCESS attribute } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid REQUEST from Originator containing To set to RESOURCE_ADDRESS and From set to Originator_ID } | IUT ← Originator |
| | then { the IUT sends the REQUEST to POINT_OF_ACCESS } | IUT → CSE |

TP/oneM2M/CSE/REG/CRE/015

| | | |
|---------------------------|---|------------------|
| TP Id | TP/oneM2M/CSE/REG/CRE/015 | |
| Test objective | Check that the IUT retargets the request to the CSE according to pointOfAccess in the <remoteCSE> resource and forward the response back to the originator. | |
| Reference | ETSI TS 118 101 [1], clause 9.6.4 and clause 9.3.2.2.3, ETSI TS 118 104 [2], clause 6.2.3 | |
| Config Id | CF02 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_CSE , PICS_SP_RELATIVE_RESOURCE_ID, PICS_ABSOLUTE_RESOURCE_ID | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having received a valid REQUEST from Originator and The IUT having sent the REQUEST to the remoteCSE } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid RESPONSE from the remoteCSE } | IUT ← CSE |
| | then { the IUT sends the RESPONSE to the Originator } | IUT → Originator |

TP/oneM2M/CSE/REG/CRE/016

| | | |
|---------------------------|--|------------------|
| TP Id | TP/oneM2M/CSE/REG/CRE/016 | |
| Test objective | Check that the IUT rejects an AE registration (not allowed App-ID) | |
| Reference | ETSI TS 118 101 [1], clause 10.1.1.2.2 step 3 and clause 9.6.19 | |
| Config Id | CF01 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT not allowing to register an AE containing not allowed App-ID attribute indicating APP-ID } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid CREATE Request from AE containing Resource Type set to 2 (AE) and Content containing AE resource containing App-ID attribute set to APP-ID } | IUT ← AE |
| | then { the IUT does not create the AE resource and the IUT sends a valid Response containing Response Status Code set to 4107 (SEcurity_Association_Required) } | IUT → AE |

TP/oneM2M/CSE/REG/CRE/017

| | | |
|---------------------------|--|------------------|
| TP Id | TP/oneM2M/CSE/REG/CRE/017 | |
| Test objective | Check that the IUT rejects a create request of <AE> resource that does not include the <i>MANDATORY_ATTRIBUTE</i> . | |
| Reference | ETSI TS 118 101 [1], clause 10.1.1.2.2, ETSI TS 118 104 [2], clause 7.4.5.2.1 | |
| Config Id | CF01 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having preconfigured AE_ID_stem } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid CREATE Request from AE containing To set to CSEBASE_RESOURCE_ADDRESS and From set to AE_ID and Resource Type set to 2(AE) and Content containing AE resource containing no MANDATORY_ATTRIBUTE attribute } | IUT ← AE |
| | then { the IUT sends a valid Response containing Response Status Code set to 4000 (BAD Request) } | IUT → AE |

| TP Id | Reference | ATTRIBUTE |
|-------------------------------|-----------------------------------|---------------------|
| TP/oneM2M/CSE/REG/CRE/017_API | ETSI TS 118 101 [1], clause 9.6.5 | App-ID |
| TP/oneM2M/CSE/REG/CRE/017_RR | ETSI TS 118 101 [1], clause 9.6.5 | requestReachability |

TP/oneM2M/CSE/REG/CRE/018

| | | |
|---------------------------|---|------------------|
| TP Id | TP/oneM2M/CSE/REG/CRE/018 | |
| Test objective | Check that the IUT accepts a create request of <remoteCSE> resource with attributes multiplicity equals to 1. | |
| Reference | ETSI TS 118 101 [1], clause 10.1.1.2.1 and clause 9.6.4, ETSI TS 118 104 [2], clause 7.4.5.2.2 | |
| Config Id | CF04 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid CREATE Request from CSE containing To set to CSEBASE_RESOURCE_ADDRESS and From set to CSE_ID and Resource Type set to 16(remoteCSE) and Content containing remoteCSE resource representation } | IUT ← CSE |
| | then { the IUT sends a valid Response containing Response Status Code set to 2001 (CREATED) and Content containing remoteCSE resource representation } | IUT → CSE |

TP/oneM2M/CSE/REG/CRE/019

| | | |
|---------------------------|--|------------------|
| TP Id | TP/oneM2M/CSE/REG/CRE/019 | |
| Test objective | Check that the IUT accepts a create request of <remoteCSE> resource with attributes multiplicity equals to 1 without the preconfigured CSE-ID. | |
| Reference | ETSI TS 118 101 [1], clause 10.1.1.2.1 and clause 9.6.4, ETSI TS 118 104 [2], clause 7.4.5.2.2 | |
| Config Id | CF04 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid CREATE Request from CSE containing To set to CSEBASE_RESOURCE_ADDRESS and no From and Resource Type set to 16(remoteCSE) and Content containing remoteCSE resource representation } | IUT ← CSE |
| | then { the IUT sends a valid Response containing Response Status Code set to 2001 (CREATED) and Content containing remoteCSE resource representation } | IUT → CSE |

TP/oneM2M/CSE/REG/CRE/020

| | | |
|--|---|--|
| TP Id | TP/oneM2M/CSE/REG/CRE/020 | |
| Test objective | Check that the IUT accepts a create request of <AE> resource with attributes multiplicity equals to 1 and asking AE_ID_Stem by indicating AE_ID_Stem starting with character 'S'. | |
| Reference | ETSI TS 118 101 [1], clause 10.1.1.2.2 case a, ETSI TS 118 104 [2], clause 7.4.5.2.1 | |
| Config Id | CF01 | |
| Parent Release | Release 2 | |
| PICS Selection | PICS_IN_CSE | |
| Initial conditions | with { the IUT being in the "initial state" } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid CREATE Request from AE containing From set to 'S' and Resource Type set to 2(AE) and Content containing AE resource representation } then { the IUT sends a valid Response containing Response Status Code set to 2001 (CREATED) and Content containing AE resource containing ResourceID attribute set to S-AE-ID-STEM } | IUT ← AE IUT → AE |
| NOTE: S-AE-ID-STEM = Value starting with "S" assigned by IN-CSE. | | |

TP/oneM2M/CSE/REG/CRE/021

| | | |
|---------------------------|--|--|
| TP Id | TP/oneM2M/CSE/REG/CRE/021 | |
| Test objective | Check that the IUT rejects the create request of <CSEBase> resource. | |
| Reference | ETSI TS 118 101 [1], clause 10.2.3.1 and clause 9.6.3, ETSI TS 118 104 [2], clause 7.4.3.2.1 | |
| Config Id | CF01 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid CREATE Request from AE containing To set to CSEBASE_RESOURCE_ADDRESS and Resource Type set to 5 (CSEBase) and From set to AE-ID and Content containing CSEBase resource representation } then { the IUT sends a valid Response containing Response Status Code set to 4005 (OPERATION_NOT_ALLOWED) } | IUT ← AE IUT → AE |

TP/oneM2M/CSE/REG/CRE/022

| | | |
|---------------------------|---|------------------|
| TP Id | TP/oneM2M/CSE/REG/CRE/022 | |
| Test objective | Check that the IUT accepts an AE registration (allowed App-ID, C-AE-ID-STEM not provided by AE) | |
| Reference | ETSI TS 118 101 [1], clause 10.1.1.2.2 case C and clause 9.6.19 | |
| Config Id | CF01 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT allowing to register an AE containing App-ID attribute indicating APP-ID and AE-ID attribute indicating C-AE-ID-STEM } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid CREATE Request from AE containing Resource Type set to 2 (AE) and From set to 'C' and Content containing AE resource containing App-ID attribute set to APP-ID } | IUT ← AE |
| | then { the IUT creates the AE resource and the IUT sends a valid Response containing Response Status Code set to 2001 (CREATED) } | IUT → AE |

TP/oneM2M/CSE/REG/CRE/023

| | | |
|---------------------------|--|------------------|
| TP Id | TP/oneM2M/CSE/REG/CRE/023 | |
| Test objective | Check that the IUT rejects registration of already registered AE (C-AE-ID-STEM provided by AE) | |
| Reference | ETSI TS 118 101 [1], clause 10.1.1.2.2 step 4 and clause 9.6.19 | |
| Config Id | CF01 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE with AE-ID attribute set to C-AE-ID-STEM } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid CREATE Request from AE containing Resource Type set to 2 (AE) and To set to TARGE_CSE_RESOURCE_ADDRESS and From set to C-AE-ID-STEM and Content containing AE resource representation } | IUT ← AE |
| | then { the IUT does not create the AE resource and the IUT sends a valid Response containing Response Status Code set to 4105 (CONFLICT) } | IUT → AE |

TP/oneM2M/CSE/REG/CRE/024

| | | |
|---------------------------|---|------------------|
| TP Id | TP/oneM2M/CSE/REG/CRE/024 | |
| Test objective | Check that IUT sends a CSE registration request with attributes multiplicity equals to 1 | |
| Reference | ETSI TS 118 101 [1], clause 10.1.1.2.1, ETSI TS 118 104 [2], clause 7.4.5.2.2 | |
| Config Id | CF04 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_MN_CSE or PICS_ASN_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having privileges to perform CREATE operation on the resource CSEBASE_RESOURCE_ADDRESS } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT is triggered to send a valid CREATE Request containing To set to CSEBASE_RESOURCE_ADDRESS and Resource Type set to 16 (remoteCSE) and Content containing remoteCSE resource representation } | NA |
| | then { the IUT sends a valid CREATE Request containing To set to CSEBASE_RESOURCE_ADDRESS and From set to CSE_ID and Resource Type set to 16 (remoteCSE) and Content containing remoteCSE resource representation } | IUT → CSE |

TP/oneM2M/CSE/REG/CRE/025

| | | |
|---------------------------|--|------------------|
| TP Id | TP/oneM2M/CSE/REG/CRE/025 | |
| Test objective | Check that IUT accepts a CSE registration request with attributes multiplicity equals to 1 | |
| Reference | ETSI TS 118 101 [1], clause 10.1.1.2.1, ETSI TS 118 104 [2], clause 7.4.5.2.2 | |
| Config Id | CF04 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having privileges to perform CREATE operation on the resource CSEBASE_RESOURCE_ADDRESS } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid CREATE Request containing To set to CSEBASE_RESOURCE_ADDRESS and From set to CSE_ID and Resource Type set to 16 (remoteCSE) and Content containing remoteCSE resource representation } | IUT ← CSE |
| | then { the IUT sends a valid Response containing Response Status Code set to 2001 (CREATED) and Content containing remoteCSE resource representation and the IUT creates the <remoteCSE> resource } | IUT → CSE |

TP/oneM2M/CSE/REG/CRE/026

| | | |
|---------------------------|--|------------------|
| TP Id | TP/oneM2M/CSE/REG/CRE/026 | |
| Test objective | Check that IUT sends a CSE registration request with <i>OPTIONAL_ATTRIBUTE</i> attribute | |
| Reference | ETSI TS 118 101 [1], clause 10.1.1.2.1, ETSI TS 118 104 [2], clause 7.4.5.2.2 | |
| Config Id | CF04 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_MN_CSE or PICS_ASN_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having privileges to perform CREATE operation on the resource CSEBASE_RESOURCE_ADDRESS } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT is triggered to send a valid CREATE Request containing To set to CSEBASE_RESOURCE_ADDRESS and Content containing remoteCSE resource containing cseType attribute set to 2 (MN_CSE) and valid attribute <i>OPTIONAL_ATTRIBUTE</i> } | NA |
| | then { the IUT sends a valid CREATE Request containing To set to CSEBASE_RESOURCE_ADDRESS and From set to CSE_ID and Resource Type set to 16 (remoteCSE) and Content containing remoteCSE resource containing cseType attribute set to 2 (MN_CSE) and valid attribute <i>OPTIONAL_ATTRIBUTE</i> } | IUT → CSE |

| TP Id | PICS Selection | Reference | OPTIONAL_ATTRIBUTE |
|-------------------------------|----------------|------------------------------------|--------------------|
| TP/oneM2M/CSE/REG/CRE/026_RN | PICS_CSR_RN | ETSI TS 118 101 [1], table 9.6.4-2 | resourceName |
| TP/oneM2M/CSE/REG/CRE/026_ET | PICS_CSR_ET | ETSI TS 118 101 [1], table 9.6.4-2 | expirationTime |
| TP/oneM2M/CSE/REG/CRE/026_LBL | PICS_CSR_LBL | ETSI TS 118 101 [1], table 9.6.4-2 | labels |
| TP/oneM2M/CSE/REG/CRE/026_POA | PICS_CSR_POA | ETSI TS 118 101 [1], table 9.6.4-2 | pointOfAccess |
| TP/oneM2M/CSE/REG/CRE/026_NL | PICS_CSR_NL | ETSI TS 118 101 [1], table 9.6.4-2 | nodeLink |
| TP/oneM2M/CSE/REG/CRE/026_CST | PICS_CSR_CST | ETSI TS 118 101 [1], table 9.6.4-2 | cseType |

TP/oneM2M/CSE/REG/CRE/027

| | | |
|---------------------------|--|------------------|
| TP Id | TP/oneM2M/CSE/REG/CRE/027 | |
| Test objective | Check that IUT accepts a CSE registration request with <i>cseType</i> attribute set to 'MN_CSE' | |
| Reference | ETSI TS 118 101 [1], clause 10.1.1.2.1, ETSI TS 118 104 [2], clause 7.4.5.2.2 | |
| Config Id | CF04 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having privileges to perform CREATE operation on the resource CSEBASE_RESOURCE_ADDRESS } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid CREATE Request containing To set to CSEBASE_RESOURCE_ADDRESS and From set to CSE_ID and Resource Type set to 16 (remoteCSE) and Content containing remoteCSE resource containing <i>cseType</i> attribute set to 2 (MN_CSE) } | IUT ← CSE |
| | then { the IUT sends a valid Response containing Response Status Code set to 2001 (CREATED) and Content containing remoteCSE resource containing <i>cseType</i> attribute set to 2 (MN_CSE) and the IUT creates a <remoteCSE> resource } | IUT → CSE |

TP/oneM2M/CSE/REG/CRE/028

| | | |
|---------------------------|--|------------------|
| TP Id | TP/oneM2M/CSE/REG/CRE/028 | |
| Test objective | Check that IUT accepts a CSE registration request with <i>OPTIONAL_ATTRIBUTE</i> attribute | |
| Reference | ETSI TS 118 101 [1], clause 10.1.1.2.1, ETSI TS 118 104 [2], clause 7.4.5.2.2 | |
| Config Id | CF04 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the CSE having privileges to perform CREATE operation on the resource CSEBASE_RESOURCE_ADDRESS } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid CREATE Request containing To set to CSEBASE_RESOURCE_ADDRESS and From set to CSE_ID and Resource Type set to 16 (remoteCSE) and Content containing remoteCSE resource containing cseType attribute set to 2 (MN_CSE) and valid attribute <i>OPTIONAL_ATTRIBUTE</i> } then { the IUT sends a valid Response containing Response Status Code set to 2001 (CREATED) and Content containing remoteCSE resource containing cseType attribute set to 2 (MN_CSE) and valid attribute <i>OPTIONAL_ATTRIBUTE</i> and the IUT creates a <remoteCSE> resource } | IUT ← CSE |
| | | IUT → CSE |

| TP Id | PICS Selection | Reference | OPTIONAL_ATTRIBUTE |
|-------------------------------|----------------|------------------------------------|--------------------|
| TP/oneM2M/CSE/REG/CRE/028_LBL | PICS_CSR_LBL | ETSI TS 118 101 [1], table 9.6.4-2 | labels |
| TP/oneM2M/CSE/REG/CRE/028_POA | PICS_CSR_POA | ETSI TS 118 101 [1], table 9.6.4-2 | pointOfAccess |
| TP/oneM2M/CSE/REG/CRE/028_NL | PICS_CSR_NL | ETSI TS 118 101 [1], table 9.6.4-2 | nodeLink |

TP/oneM2M/CSE/REG/CRE/029

| | | |
|---|---|------------------|
| TP Id | TP/oneM2M/CSE/REG/CRE/029 | |
| Test objective | Check that the IUT accepts an AE registration (preprovisioned S-AE-ID-STEM provided by AE), communication between MN-CSE and IN-CSE | |
| Reference | ETSI TS 118 101 [1], clause 10.1.1.2.2 case a, step 5-8 | |
| Config Id | CF04 | |
| Parent Release | Release 2 | |
| PICS Selection | PICS_IN_CSE | |
| Initial conditions | with { the IUT being in the "initial state" } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid CREATE Request from the CSE containing Resource Type set to 10002 (AEAnnc) and From set to SP-RELATIVE-AE-ID and Content containing AEAnnc resource containing link attribute set to SP-RELATIVE-AE-ID and labels indicating 'Credential-ID:None' } | IUT ← MN-CSE |
| | then { the IUT creates the AEANNC_RESOURCE_ADDRESS resource and the IUT sends a valid Response to CSE containing Response Status Code set to 2001 (CREATED) and Content containing AEAnnc resource containing link attribute set to SP-RELATIVE-AE-ID and labels indicating 'Credential-ID:None' } | IUT → MN-CSE |
| NOTE: SP-RELATIVE-AE-ID = {SP-RELATIVE-CSE-ID}/{S-AE-ID-STEM} S-AE-ID-STEM = Valid AE-ID-Stem starting with "S". | | |

TP/oneM2M/CSE/REG/CRE/030

| | | |
|--|---|------------------|
| TP Id | TP/oneM2M/CSE/REG/CRE/030 | |
| Test objective | Check that the IUT accepts an AE re-registration (allowed M2M-SP-assigned AE-ID, S-AE-ID-STEM provided by AE), transfer response to the AE | |
| Reference | ETSI TS 118 101 [1], clause 10.1.1.2.2 case b, step 8 | |
| Config Id | CF02 | |
| Parent Release | Release 2 | |
| PICS Selection | PICS_MN_CSE | |
| Initial conditions | <p>with {</p> <p> the IUT being in the "initial state" and</p> <p> the IUT having registered the MN-CSE and</p> <p> the AE having sent a registration containing</p> <p> From set to S-AE-ID-STEM and</p> <p> the IUT having sent a valid AEAnnc CREATE Request to IN-CSE</p> <p>}</p> | |
| Expected behaviour | Test events | Direction |
| | <p>when {</p> <p> the IUT receives a valid Response from IN-CSE containing</p> <p> Response Status Code set to 2001 (CREATED) and</p> <p> Content containing</p> <p> AEAnnc resource containing</p> <p> link attribute set to SP-RELATIVE-AE-ID and</p> <p> labels attribute indicating 'Credential-ID:None'</p> <p>}</p> <p>then {</p> <p> the IUT sends a valid Response to the AE containing</p> <p> Response Status Code set to 2001 (CREATED) and</p> <p> Content containing</p> <p> AE resource containing</p> <p> AE-ID attribute set to S-AE-ID-STEM</p> <p>}</p> | IUT ← IN-CSE |
| <p>NOTE: SP-RELATIVE-AE-ID = {SP-RELATIVE-CSE-ID}/{S-AE-ID-STEM }.</p> <p>S-AE-ID-STEM = Value starting with "S" assigned by IN-CSE.</p> | | |

7.2.2.2.3 DELETE Operation

TP/oneM2M/CSE/REG/DEL/001

| | | |
|---------------------------|---|------------------|
| TP Id | TP/oneM2M/CSE/REG/DEL/001 | |
| Test objective | Check that the IUT rejects the delete request of <CSEBase> resource. | |
| Reference | ETSI TS 118 101 [1], clause 10.2.3.4 and clause 9.6.3, ETSI TS 118 104 [2], clause 7.4.3.2.4 | |
| Config Id | CF01 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid DELETE Request from AE containing To set to CSEBASE_RESOURCE_ADDRESS and From set to AE_ID and no Content } | IUT ← AE |
| | then { the IUT sends a valid Response containing Response Status Code set to 4005 (OPERATION_NOT_ALLOWED) } | IUT → AE |

TP/oneM2M/CSE/REG/DEL/002

| | | |
|---------------------------|---|------------------|
| TP Id | TP/oneM2M/CSE/REG/DEL/002 | |
| Test objective | Check that IUT accepts a <remoteCSE> delete request on TARGET_REMOTE_CSE_ADDRESS, and deletes the <remoteCSE> resource | |
| Reference | ETSI TS 118 101 [1], clause 10.2.2.4 and clause 9.6.4, ETSI TS 118 104 [2], clause 7.4.4.2.1 | |
| Config Id | CF04 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the CSE and the CSE originator having privileges to perform DELETE operation on the remoteCSE resource } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid DELETE Request from CSE containing To set to REMOTECSE_RESOURCE_ADDRESS and From set to CSE_ID and no Content } | IUT ← CSE |
| | then { the IUT sends a valid Response containing Response Status Code set to 2002 (DELETED) and the IUT deletes the remoteCSE resource } | IUT → CSE |

TP/oneM2M/CSE/REG/DEL/003

| | | |
|---------------------------|---|------------------|
| TP Id | TP/oneM2M/CSE/REG/DEL/003 | |
| Test objective | Check that the IUT accepts an AE de-registration. | |
| Reference | ETSI TS 118 101 [1], clause 10.1.4.2.2 | |
| Config Id | CF01 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE and the AE having privileges to perform DELETE operation on the resource AE } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid DELETE Request from AE containing To set to AE_RESOURCE_ADDRESS and From set to AE_ID and no Content } | IUT ← AE |
| | then { the IUT deletes the AE_RESOURCE_ADDRESS resource and the IUT sends a valid Response containing Response Status Code set to 2002 (DELETED) } | IUT → AE |

TP/oneM2M/CSE/REG/DEL/004

| | | |
|---------------------------|--|------------------|
| TP Id | TP/oneM2M/CSE/REG/DEL/004 | |
| Test objective | Check that IUT sends a <remoteCSE> delete request on TARGET_REMOTE_CSE_ADDRESS | |
| Reference | ETSI TS 118 101 [1], clause 10.2.2.4, ETSI TS 118 104 [2], clause 7.4.5.2.5 | |
| Config Id | CF04 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_MN_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having created a resource TARGET_REMOTE_CSE_ADDRESS and the IUT having privileges to perform DELETE operation on the resource TARGET_REMOTE_CSE_ADDRESS } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT is triggered to send a valid DELETE Request containing To set to TARGET_REMOTE_CSE_ADDRESSES } | NA |
| | then { the IUT sends a valid DELETE Request containing To set to TARGET_REMOTE_CSE_ADDRESS and From set to CSE_ID and no Content } | IUT → CSE |

TP/oneM2M/CSE/REG/DEL/005

| | | |
|---------------------------|---|------------------|
| TP Id | TP/oneM2M/CSE/REG/DEL/005 | |
| Test objective | Check that the IUT accepts an AE de-registration when AE-ID is starting with "S" | |
| Reference | ETSI TS 118 101 [1], clause 10.1.4.2.2 | |
| Config Id | CF01 | |
| Parent Release | Release 2 | |
| PICS Selection | PICS_IN_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE containing From set to "S" and the AE having privileges to perform DELETE operation on the resource AE } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid DELETE Request from AE containing To set to AE_RESOURCE_ADDRESS and From set to AE_ID and no Content } | IUT ← AE |
| | then { the IUT deletes the AE_RESOURCE_ADDRESS resource and the IUT sends a valid Response containing Response Status Code set to 2002 (DELETED) } | IUT → AE |

TP/oneM2M/CSE/REG/DEL/006

| | | |
|---------------------------|---|------------------|
| TP Id | TP/oneM2M/CSE/REG/DEL/006 | |
| Test objective | Check that the IUT accepts an AE de-registration when AE-ID is starting with "S" | |
| Reference | ETSI TS 118 101 [1], clause 10.1.1.2.2 | |
| Config Id | CF02 | |
| Parent Release | Release 2 | |
| PICS Selection | PICS_MN_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE containing From set to "S" and the AE having privileges to perform DELETE operation on the resource AE } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid DELETE Request from AE containing To set to AE_RESOURCE_ADDRESS and From set to AE_ID and no Content } | IUT ← AE |
| | then { the IUT sends a valid UPDATE Request containing Content containing AEANNC_RESOURCE_ADDRESS resource containing link attribute set to "INACTIVE" } | IUT → IN-CSE |

TP/oneM2M/CSE/REG/DEL/007

| | | |
|---------------------------|---|------------------|
| TP Id | TP/oneM2M/CSE/REG/DEL/007 | |
| Test objective | Check that the IUT accepts the response from IN-CSE for the AE de-registration when AE-ID is starting with "S" | |
| Reference | ETSI TS 118 101 [1], clause 10.1.1.2.2 | |
| Config Id | CF02 | |
| Parent Release | Release 2 | |
| PICS Selection | PICS_MN_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE containing From set to "S" and the AE having privileges to perform DELETE operation on the resource AE and the AE having sent a valid DELETE Request at AE_RESOURCE_ADDRESS resource and the IUT having sent a valid UPDATE Request to IN-CSE containing Content containing AEANNC_RESOURCE_ADDRESS resource containing link attribute set to empty } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid Response from IN-CSE containing Response Status Code set to 2004 (UPDATED) } | IUT ← IN-CSE |
| | then { the IUT deletes the AE_RESOURCE_ADDRESS resource and the IUT sends a valid Response containing Response Status Code set to 2002 (DELETED) } | IUT → AE |

7.2.2.2.4 UPDATE Operation

TP/oneM2M/CSE/REG/UPD/001

| | | |
|---------------------------|--|------------------|
| TP Id | TP/oneM2M/CSE/REG/UPD/001 | |
| Test objective | Check that the IUT rejects the update request of <CSEBase> resource. | |
| Reference | ETSI TS 118 101 [1], clause 10.2.3.3 and clause 9.6.3, ETSI TS 118 104 [2], clause 7.4.3.2.3 | |
| Config Id | CF01 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid UPDATE Request from AE containing To set to CSEBASE_RESOURCE_ADDRESS and From set to AE_ID and Content containing CSEBase resource representation } | IUT ← AE |
| | then { the IUT sends a valid Response containing Response Status Code set to 4005 (OPERATION_NOT_ALLOWED) } | IUT → AE |

TP/oneM2M/CSE/REG/UPD/003

| | | |
|---------------------------|---|------------------|
| TP Id | TP/oneM2M/CSE/REG/UPD/003 | |
| Test objective | Check that IUT sends a <remoteCSE> update request with <i>OPTIONAL_ATTRIBUTE</i> attribute | |
| Reference | ETSI TS 118 101 [1], clause 10.2.2.3, ETSI TS 118 104 [2], clause 7.4.5.2.4 | |
| Config Id | CF04 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_MN_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having created a resource TARGET_REMOTE_CSE_ADDRESS containing a RW <i>OPTIONAL_ATTRIBUTE</i> attribute set to VALUE_1 and the IUT having privileges to perform UPDATE operation on the resource TARGET_REMOTE_CSE_ADDRESS } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT is triggered to send a valid UPDATE Request containing To set to TARGET_REMOTE_CSE_ADDRESS and Content containing remoteCSE resource containing attribute <i>OPTIONAL_ATTRIBUTE</i> set to VALUE_2 } then { the IUT sends a valid UPDATE Request containing To set to TARGET_REMOTE_CSE_ADDRESS and From set to CSE_ID and Content containing remoteCSE resource containing attribute <i>OPTIONAL_ATTRIBUTE</i> set to VALUE_2 } | NA |
| | | IUT → CSE |

| TP Id | PICS Selection | Reference | OPTIONAL_ATTRIBUTE |
|-------------------------------|----------------|------------------------------------|---------------------|
| TP/oneM2M/CSE/REG/UPD/003_ET | PICS_CSR_ET | ETSI TS 118 101 [1], table 9.6.4-2 | expirationTime |
| TP/oneM2M/CSE/REG/UPD/003_LBL | PICS_CSR_LBL | ETSI TS 118 101 [1], table 9.6.4-2 | labels |
| TP/oneM2M/CSE/REG/UPD/003_POA | PICS_CSR_POA | ETSI TS 118 101 [1], table 9.6.4-2 | pointOfAccess |
| TP/oneM2M/CSE/REG/UPD/003_NL | PICS_CSR_NL | ETSI TS 118 101 [1], table 9.6.4-2 | nodeLink |
| TP/oneM2M/CSE/REG/UPD/003_RR | PICS_CSR_RR | ETSI TS 118 101 [1], table 9.6.4-2 | requestReachability |

7.2.2.3 Data Management and Repository Function (DMR)

7.2.2.3.1 RETRIEVE Operation

TP/oneM2M/CSE/DMR/RET/001

| | | |
|---------------------------|---|------------------|
| TP Id | TP/oneM2M/CSE/DMR/RET/001 | |
| Test objective | Check that the IUT returns successfully the TARGET_RESOURCE_ADDRESS resource | |
| Reference | ETSI TS 118 101 [1], clause 10.1.2 | |
| Config Id | CF01 | |
| Parent Release | PARENT_RELEASE | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE and the IUT having created a resource TARGET_RESOURCE_ADDRESS of type RESOURCE_TYPE under the AE resource and the AE having privileges to perform RETRIEVE operation on the resource TARGET_RESOURCE_ADDRESS } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid RETRIEVE Request from AE containing To set to TARGET_RESOURCE_ADDRESS and From set to AE_ID and no Content } | IUT ← AE |
| | then { the IUT sends a valid Response containing Response Status Code set to 2000 (OK) and Content containing RESOURCE_TYPE resource representation } | IUT → AE |

| TP Id | PARENT_RELEASE | Reference | RESOURCE_TYPE |
|-------------------------------|----------------|---------------------------------------|-------------------------|
| TP/oneM2M/CSE/DMR/RET/001_CNT | Release 1 | ETSI TS 118 101 [1], clause 10.2.4.2 | 3 (container) |
| TP/oneM2M/CSE/DMR/RET/001_ACP | Release 1 | ETSI TS 118 101 [1], clause 10.2.21.2 | 1 (accessControlPolicy) |
| TP/oneM2M/CSE/DMR/RET/001_SUB | Release 1 | ETSI TS 118 101 [1], clause 10.2.11.3 | 23 (subscription) |
| TP/oneM2M/CSE/DMR/RET/001_CIN | Release 1 | ETSI TS 118 101 [1], clause 10.2.4.2 | 4 (contentInstance) |
| TP/oneM2M/CSE/DMR/RET/001_GRP | Release 1 | ETSI TS 118 101 [1], clause 10.2.7.3 | 9 (group) |
| TP/oneM2M/CSE/DMR/RET/001_SCH | Release 2 | ETSI TS 118 101 [1], clause 10.2.40.2 | 18 (schedule) |
| TP/oneM2M/CSE/DMR/RET/001_PCH | Release 2 | ETSI TS 118 101 [1], clause 10.2.13.3 | 15 (pollingChannel) |
| TP/oneM2M/CSE/DMR/RET/001_TS | Release 2 | ETSI TS 118 101 [1], clause 10.2.30.2 | 29 (timeSeries) |

TP/oneM2M/CSE/DMR/RET/002

| | | |
|---------------------------|--|------------------|
| TP Id | TP/oneM2M/CSE/DMR/RET/002 | |
| Test objective | Check that the IUT responds with an error when the AE tries to retrieve the resource TARGET_RESOURCE_ADDRESS which does not exist | |
| Reference | ETSI TS 118 101 [1], clause 10.1.2 item 1) | |
| Config Id | CF01 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE and the IUT having not yet created a resource TARGET_RESOURCE_ADDRESS } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid RETRIEVE Request from AE containing To set to TARGET_RESOURCE_ADDRESS and From set to AE_ID and no Content } | IUT ← AE |
| | then { the IUT sends a valid Response containing Response Status Code set to 4004 (NOT_FOUND) } | IUT → AE |

TP/oneM2M/CSE/DMR/RET/003

| | | |
|---------------------------|--|------------------|
| TP Id | TP/oneM2M/CSE/DMR/RET/003 | |
| Test objective | Check that the IUT responds with an error when the AE tries to retrieve a resource TARGET_RESOURCE_ADDRESS under AE without having privileges for the RETRIEVE operation | |
| Reference | ETSI TS 118 101 [1], clause 10.1.2 item 2) | |
| Config Id | CF01 | |
| Parent Release | PARENT_RELEASE | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE and the IUT having created a resource TARGET_RESOURCE_ADDRESS of type RESOURCE_TYPE under the AE resource and the AE having no privileges to perform RETRIEVE operation on the resource TARGET_RESOURCE_ADDRESS } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid RETRIEVE Request from AE containing To set to TARGET_RESOURCE_ADDRESS and From set to AE_ID and no Content } | IUT ← AE |
| | then { the IUT sends a Response containing Response Status Code set to 4103 (ACCESS_DENIED) } | IUT → AE |

| TP Id | PARENT_RELEASE | Reference | RESOURCE_TYPE |
|-------------------------------|----------------|---------------------------------------|-------------------------|
| TP/oneM2M/CSE/DMR/RET/003_CNT | Release 1 | ETSI TS 118 101 [1], clause 10.2.4.2 | 3 (container) |
| TP/oneM2M/CSE/DMR/RET/003_ACP | Release 1 | ETSI TS 118 101 [1], clause 10.2.21.2 | 1 (accessControlPolicy) |
| TP/oneM2M/CSE/DMR/RET/003_SUB | Release 1 | ETSI TS 118 101 [1], clause 10.2.11.3 | 23 (subscription) |
| TP/oneM2M/CSE/DMR/RET/003_GRP | Release 1 | ETSI TS 118 101 [1], clause 10.2.7.3 | 9 (group) |
| TP/oneM2M/CSE/DMR/RET/003_SCH | Release 2 | ETSI TS 118 101 [1], clause 10.2.40.2 | 18 (schedule) |
| TP/oneM2M/CSE/DMR/RET/003_TS | Release 2 | ETSI TS 118 101 [1], clause 10.2.30.2 | 29 (timeSeries) |

TP/oneM2M/CSE/DMR/RET/004

| | | |
|--|--|--|
| TP Id | TP/oneM2M/CSE/DMR/RET/004 | |
| Test objective | Check that the IUT returns successfully the ATTRIBUTE of TARGET_RESOURCE_ADDRESS resource ("To" option) | |
| Reference | ETSI TS 118 101 [1], clause 10.1.2 | |
| Config Id | CF01 | |
| Parent Release | PARENT_RELEASE | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE and the IUT having created a resource TARGET_RESOURCE_ADDRESS of type RESOURCE_TYPE under the AE resource and the AE having privileges to perform RETRIEVE operation on the resource TARGET_RESOURCE_ADDRESS } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid RETRIEVE Request from AE containing To set to TARGET_ATTRIBUTE_ADDRESS and From set to AE_ID and no Content } then { the IUT sends a valid Response containing Response Status Code set to 2000 (OK) and Content containing RESOURCE_TYPE resource containing valid ATTRIBUTE attribute and no other attribute } | IUT ← AE IUT → AE |
| NOTE: TARGET_ATTRIBUTE_ADDRESS is represented as TARGET_RESOURCE_ADDRESS#ATTRIBUTE where '#' is present between TARGET_RESOURCE_ADDRESS and ATTRIBUTE. ATTRIBUTE indicates common attribute for all RESOURCE_TYPE resources listed in the table below. | | |

| TP Id | PARENT_RELEASE | Reference | RESOURCE_TYPE |
|-------------------------------|----------------|---------------------------------------|-------------------------|
| TP/oneM2M/CSE/DMR/RET/004_CNT | Release 1 | ETSI TS 118 101 [1], clause 10.2.4.2 | 3 (container) |
| TP/oneM2M/CSE/DMR/RET/004_ACP | Release 1 | ETSI TS 118 101 [1], clause 10.2.21.2 | 1 (accessControlPolicy) |
| TP/oneM2M/CSE/DMR/RET/004_SUB | Release 1 | ETSI TS 118 101 [1], clause 10.2.11.3 | 23 (subscription) |
| TP/oneM2M/CSE/DMR/RET/004_GRP | Release 1 | ETSI TS 118 101 [1], clause 10.2.7.3 | 9 (group) |
| TP/oneM2M/CSE/DMR/RET/004_SCH | Release 2 | ETSI TS 118 101 [1], clause 10.2.40.2 | 18 (schedule) |
| TP/oneM2M/CSE/DMR/RET/004_PCH | Release 2 | ETSI TS 118 101 [1], clause 10.2.13.3 | 15 (pollingChannel) |
| TP/oneM2M/CSE/DMR/RET/004_TS | Release 2 | ETSI TS 118 101 [1], clause 10.2.30.2 | 29 (timeSeries) |

TP/oneM2M/CSE/DMR/RET/005

| | | |
|--|---|------------------|
| TP Id | TP/oneM2M/CSE/DMR/RET/005 | |
| Test objective | Check that the IUT returns successfully the ATTRIBUTE of TARGET_RESOURCE_ADDRESS resource ("Content" option) | |
| Reference | ETSI TS 118 101 [1], clause 10.1.2 | |
| Config Id | CF01 | |
| Parent Release | PARENT_RELEASE | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE and the IUT having created a resource TARGET_RESOURCE_ADDRESS of type RESOURCE_TYPE under the AE resource and the AE having privileges to perform RETRIEVE operation on the resource TARGET_RESOURCE_ADDRESS } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid RETRIEVE Request from AE containing To set to TARGET_RESOURCE_ADDRESS and From set to AE_ID and Content containing attributeList element containing ATTRIBUTE name } | IUT ← AE |
| | then { the IUT sends a valid Response containing Response Status Code set to 2000 (OK) and Content containing RESOURCE_TYPE resource containing valid ATTRIBUTE attribute and no other attribute } | IUT → AE |
| NOTE: ATTRIBUTE indicates common attribute for all RESOURCE_TYPE resources listed in the table below. | | |

| TP Id | PARENT_RELEASE | Reference | RESOURCE_TYPE |
|-------------------------------|----------------|---------------------------------------|-------------------------|
| TP/oneM2M/CSE/DMR/RET/005_CNT | Release 1 | ETSI TS 118 101 [1], clause 10.2.4.2 | 3 (container) |
| TP/oneM2M/CSE/DMR/RET/005_ACP | Release 1 | ETSI TS 118 101 [1], clause 10.2.21.2 | 1 (accessControlPolicy) |
| TP/oneM2M/CSE/DMR/RET/005_SUB | Release 1 | ETSI TS 118 101 [1], clause 10.2.11.3 | 23 (subscription) |
| TP/oneM2M/CSE/DMR/RET/005_GRP | Release 1 | ETSI TS 118 101 [1], clause 10.2.7.3 | 9 (group) |
| TP/oneM2M/CSE/DMR/RET/005_SCH | Release 2 | ETSI TS 118 101 [1], clause 10.2.40.2 | 18 (schedule) |
| TP/oneM2M/CSE/DMR/RET/005_PCH | Release 2 | ETSI TS 118 101 [1], clause 10.2.13.3 | 15 (pollingChannel) |
| TP/oneM2M/CSE/DMR/RET/005_TS | Release 2 | ETSI TS 118 101 [1], clause 10.2.30.2 | 29 (timeSeries) |

TP/oneM2M/CSE/DMR/RET/007

| | | |
|--|--|------------------|
| TP Id | TP/oneM2M/CSE/DMR/RET/007 | |
| Test objective | Check that the IUT responds with an error when the AE tries to retrieve a non-existing attribute of the TARGET_RESOURCE_ADDRESS resource ("single" attribute case) | |
| Reference | ETSI TS 118 101 [1], clause 10.1.2 | |
| Config Id | CF01 | |
| Parent Release | PARENT_RELEASE | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE and the IUT having created a resource TARGET_RESOURCE_ADDRESS of type RESOURCE_TYPE under the AE resource containing no attribute ATTRIBUTE and the AE having privileges to perform RETRIEVE operation on the resource TARGET_RESOURCE_ADDRESS } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid RETRIEVE Request from AE containing To set to TARGET_RESOURCE_ADDRESS and From set to AE_ID and Content containing attributeList element containing ATTRIBUTE name } | IUT ← AE |
| | then { the IUT sends a valid Response containing Response Status Code set to 4004 (NOT_FOUND) } | IUT → AE |
| NOTE: labels attribute was chosen, since it is a common attribute for all types of resource. It can be replaced by any common attribute. | | |

| TP Id | PARENT_RELEASE | Reference | RESOURCE_TYPE | ATTRIBUTE |
|-----------------------------------|----------------|---------------------------------------|-------------------------|-----------|
| TP/oneM2M/CSE/DMR/RET/007_CNT/LBL | Release 1 | ETSI TS 118 101 [1], clause 10.2.4.2 | 3 (container) | labels |
| TP/oneM2M/CSE/DMR/RET/007_ACP/LBL | Release 1 | ETSI TS 118 101 [1], clause 10.2.21.2 | 1 (accessControlPolicy) | labels |
| TP/oneM2M/CSE/DMR/RET/007_SUB/LBL | Release 1 | ETSI TS 118 101 [1], clause 10.2.11.3 | 23 (subscription) | labels |
| TP/oneM2M/CSE/DMR/RET/007_GRP/LBL | Release 1 | ETSI TS 118 101 [1], clause 10.2.7.3 | 9 (group) | labels |
| TP/oneM2M/CSE/DMR/RET/007_SCH/LBL | Release 2 | ETSI TS 118 101 [1], clause 10.2.40.2 | 18 (schedule) | labels |
| TP/oneM2M/CSE/DMR/RET/007_PCH/LBL | Release 2 | ETSI TS 118 101 [1], clause 10.2.13.3 | 15 (pollingChallenge) | labels |
| TP/oneM2M/CSE/DMR/RET/007_TS/LBL | Release 2 | ETSI TS 118 101 [1], clause 10.2.30.2 | 29 (timeSeries) | labels |

TP/oneM2M/CSE/DMR/RET/008

| | | |
|---------------------------|--|------------------|
| TP Id | TP/oneM2M/CSE/DMR/RET/008 | |
| Test objective | Check that the IUT responds with an error when the AE tries to retrieve a non-existing attributes of the TARGET_RESOURCE_ADDRESS resource ("multiple" attributes case) | |
| Reference | ETSI TS 118 101 [1], clause 10.1.2 | |
| Config Id | CF01 | |
| Parent Release | PARENT_RELEASE | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE and the IUT having created a resource TARGET_RESOURCE_ADDRESS of type RESOURCE_TYPE under the AE resource containing no ATTRIBUTE_1 attribute and no ATTRIBUTE_2 attribute and the AE having privileges to perform RETRIEVE operation on the resource TARGET_RESOURCE_ADDRESS } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid RETRIEVE Request from AE containing To set to TARGET_RESOURCE_ADDRESS and From set to AE_ID and Content containing attributeList element containing ATTRIBUTE_1 name and ATTRIBUTE_2 name } | IUT ← AE |
| | then { the IUT sends a valid Response containing Response Status Code set to 4004 (NOT_FOUND) } | IUT → AE |

| TP Id | PARENT_RELEASE | Reference | RESOURCE_TYPE | ATTRIBUTE_1 | ATTRIBUTE_2 |
|--------------------------------------|----------------|---------------------------------------|-------------------------|-------------|-------------|
| TP/oneM2M/CSE/DMR/RET/008_CNT/LBL/AT | Release 1 | ETSI TS 118 101 [1], clause 10.2.4.2 | 3 (container) | labels | announce To |
| TP/oneM2M/CSE/DMR/RET/008_SUB/LBL/AT | Release 1 | ETSI TS 118 101 [1], clause 10.2.11.3 | 23 (subscription) | labels | announce To |
| TP/oneM2M/CSE/DMR/RET/008_ACP/LBL/AT | Release 1 | ETSI TS 118 101 [1], clause 10.2.21.2 | 1 (accessControlPolicy) | labels | announce To |
| TP/oneM2M/CSE/DMR/RET/008_GRP/LBL/AT | Release 1 | ETSI TS 118 101 [1], clause 10.2.7.3 | 9 (group) | labels | announce To |
| TP/oneM2M/CSE/DMR/RET/008_SCH/LBL/AT | Release 2 | ETSI TS 118 101 [1], clause 10.2.40.2 | 18 (schedule) | labels | announce To |
| TP/oneM2M/CSE/DMR/RET/008_PCH/LBL/PI | Release 2 | ETSI TS 118 101 [1], clause 10.2.13.3 | 15 (pollingChannel) | labels | parentID |
| TP/oneM2M/CSE/DMR/RET/008_TS/LBL/AT | Release 2 | ETSI TS 118 101 [1], clause 10.2.30.2 | 29 (timeSeries) | labels | announce To |

TP/oneM2M/CSE/DMR/RET/009

| | | |
|---------------------------|--|------------------|
| TP Id | TP/oneM2M/CSE/DMR/RET/009 | |
| Test objective | Check that the IUT rejects the RETRIEVE Request of a latest resource target to a container resource that has no direct child contentInstance resources. | |
| Reference | ETSI TS 118 101 [1], clause 10.2.22.1, ETSI TS 118 104 [2], clause 7.4.28.2.3 | |
| Config Id | CF01 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE containing a container resource containing no direct child contentInstance resources } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid RETRIEVE Request from AE containing To set to TARGET_RESOURCE_ADDRESS and From set to AE_ID and no Content } | IUT ← AE |
| | then { the IUT sends a valid Response containing Response Status Code set to 4004 (NOT_FOUND) } | IUT → AE |

TP/oneM2M/CSE/DMR/RET/010

| | | |
|---------------------------|---|------------------|
| TP Id | TP/oneM2M/CSE/DMR/RET/010 | |
| Test objective | Check that the IUT accepts the RETRIEVE Request of the oldest contentInstance target to a <container> resource | |
| Reference | ETSI TS 118 101 [1], clause 10.2.23.1, ETSI TS 118 104 [2], clause 7.4.29.2.3 | |
| Config Id | CF01 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE and the IUT having created a container resource containing CONTENT_INSTANCE_1 contentInstance resource and CONTENT_INSTANCE_2 contentInstance resource and the AE having privileges to perform RETRIEVE operation on the container resource and creationTime attribute of CONTENT_INSTANCE_1 < creationTime attribute of CONTENT_INSTANCE_2 } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid RETRIEVE Request from AE containing To set to CONTAINER_RESOURCE_ADDRESS/ol and From set to AE_ID and no Content } | IUT ← AE |
| | then { the IUT sends a valid Response containing Response Status Code set to 2000 (OK) and Content containing contentInstance resource containing resourceName attribute set to CONTENT_INSTANCE_1 } | IUT → AE |

TP/oneM2M/CSE/DMR/RET/011

| | | |
|---------------------------|---|--|
| TP Id | TP/oneM2M/CSE/DMR/RET/011 | |
| Test objective | Check that the IUT rejects the RETRIEVE Request of an oldest resource target to a container resource that has no direct child contentInstance resources. | |
| Reference | ETSI TS 118 101 [1], clause 10.2.23.1, ETSI TS 118 104 [2], clause 7.4.29.2.3 | |
| Config Id | CF01 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE containing a container resource containing no direct child contentInstance resources } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid RETRIEVE Request from AE containing To set to CONTAINER_RESOURCE_ADDRESS/ol and From set to AE_ID and no Content } then { the IUT sends a valid Response containing Response Status Code set to 4004 (NOT_FOUND) } | IUT ← AE IUT → AE |

TP/oneM2M/CSE/DMR/RET/012

| | | |
|---------------------------|---|--|
| TP Id | TP/oneM2M/CSE/DMR/RET/012 | |
| Test objective | Check that the IUT accepts the RETRIEVE Request of the latest contentInstance target to a <container> resource | |
| Reference | ETSI TS 118 101 [1], clause 10.2.22.1, ETSI TS 118 104 [2], clause 7.4.28.2.3 | |
| Config Id | CF01 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE containing and the IUT having created a container resource containing CONTENT_INSTANCE_1 contentInstance resource and CONTENT_INSTANCE_2 contentInstance resource and the AE having privileges to perform RETRIEVE operation on the container resource and creationTime attribute of CONTENT_INSTANCE_1 < creationTime attribute of CONTENT_INSTANCE_2 } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid RETRIEVE Request from AE containing To set to CONTAINER_RESOURCE_ADDRESS/la and From set to AE_ID and no Content } then { the IUT sends a Response containing Response Status Code set to 2000 (OK) and Content containing contentInstance resource containing resourceName attribute set to CONTENT_INSTANCE_2 } | IUT ← AE IUT → AE |

TP/oneM2M/CSE/DMR/RET/013

| | | |
|---------------------------|--|------------------|
| TP Id | TP/oneM2M/CSE/DMR/RET/013 | |
| Test objective | Check that the IUT returns successfully the TARGET_RESOURCE_ADDRESS resource under CSEBase | |
| Reference | ETSI TS 118 101 [1], clause 10.1.2 | |
| Config Id | CF01 | |
| Parent Release | PARENT_RELEASE | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE and the IUT having created a resource TARGET_RESOURCE_ADDRESS of type RESOURCE_TYPE under the CSEBase resource and the AE having privileges to perform RETRIEVE operation on the resource TARGET_RESOURCE_ADDRESS } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid RETRIEVE Request from AE containing To set to TARGET_RESOURCE_ADDRESS and From set to AE_ID } | IUT ← AE |
| | then { the IUT sends a valid Response containing Response Status Code set to 2000 (OK) and Content containing RESOURCE_TYPE resource representation } | IUT → AE |

| TP Id | PARENT_RELEASE | Reference | RESOURCE_TYPE |
|--------------------------------|----------------|---|-------------------------|
| TP/oneM2M/CSE/DMR/RET/013_ACP | Release 1 | ETSI TS 118 101 [1], clause 10.2.21.2 | 1 (accessControlPolicy) |
| TP/oneM2M/CSE/DMR/RET/013_AE | Release 1 | ETSI TS 118 101 [1], clause 10.2.1.2 | 2 (AE) |
| TP/oneM2M/CSE/DMR/RET/013_CNT | Release 1 | ETSI TS 118 101 [1], clause 10.2.4.2 | 3 (container) |
| TP/oneM2M/CSE/DMR/RET/013_CSR | Release 1 | ETSI TS 118 101 [1], clause 10.2.2.2 | 16 (remoteCSE) |
| TP/oneM2M/CSE/DMR/RET/013_SUB | Release 1 | ETSI TS 118 101 [1], clause 10.2.11.3 | 23 (subscription) |
| TP/oneM2M/CSE/DMR/RET/013_GRP | Release 1 | ETSI TS 118 101 [1], clause 10.2.7.3 | 9 (group) |
| TP/oneM2M/CSE/DMR/RET/013_DLV | Release 2 | ETSI TS 118 101 [1], clause 10.2.5.3 | 6 (delivery) |
| TP/oneM2M/CSE/DMR/RET/013_LCP | Release 2 | ETSI TS 118 101 [1], clause 10.2.10.1.2 | 10 (locationPolicy) |
| TP/oneM2M/CSE/DMR/RET/013_MGC | Release 2 | ETSI TS 118 101 [1], clause 10.2.8.3 | 12 (mgmtCmd) |
| TP/oneM2M/CSE/DMR/RET/013_NOD | Release 2 | ETSI TS 118 101 [1], clause 10.2.14.2 | 14 (node) |
| TP/oneM2M/CSE/DMR/RET/013_REQ | Release 2 | ETSI TS 118 101 [1], clause 10.2.20.2 | 17 (request) |
| TP/oneM2M/CSE/DMR/RET/013_SCH | Release 2 | ETSI TS 118 101 [1], clause 10.2.40.2 | 18 (schedule) |
| TP/oneM2M/CSE/DMR/RET/013_STCL | Release 2 | ETSI TS 118 101 [1], clause 10.2.15.11 | 21 (statsCollect) |
| TP/oneM2M/CSE/DMR/RET/013_STCG | Release 2 | ETSI TS 118 101 [1], clause 10.2.15.3 | 22 (statsConfig) |
| TP/oneM2M/CSE/DMR/RET/013_TS | Release 2 | ETSI TS 118 101 [1], clause 10.2.30.2 | 29 (timeSeries) |

TP/oneM2M/CSE/DMR/RET/014

| | | |
|---------------------------|---|------------------|
| TP Id | TP/oneM2M/CSE/DMR/RET/014 | |
| Test objective | Check that the IUT responds with an error when the AE tries to retrieve a resource TARGET_RESOURCE_ADDRESS under CSEBase without having privileges for the RETRIEVE operation | |
| Reference | ETSI TS 118 101 [1], clause 10.1.2 item 2) | |
| Config Id | CF01 | |
| Parent Release | PARENT_RELEASE | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE and the IUT having created a resource TARGET_RESOURCE_ADDRESS of type RESOURCE_TYPE under the CSEBase resource and the AE having no privileges to perform RETRIEVE operation on the resource TARGET_RESOURCE_ADDRESS } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid RETRIEVE Request from AE containing To set to TARGET_RESOURCE_ADDRESS and From set to AE_ID and no Content } | IUT ← AE |
| | then { the IUT sends a Response containing Response Status Code set to 4103 (ACCESS_DENIED) } | IUT → AE |

| TP Id | PARENT_RELEASE | Reference | RESOURCE_TYPE |
|--------------------------------|----------------|---|-------------------------|
| TP/oneM2M/CSE/DMR/RET/014_ACP | Release 1 | ETSI TS 118 101 [1], clause 10.2.21.2 | 1 (accessControlPolicy) |
| TP/oneM2M/CSE/DMR/RET/014_AE | Release 1 | ETSI TS 118 101 [1], clause 10.2.1.2 | 2 (AE) |
| TP/oneM2M/CSE/DMR/RET/014_CNT | Release 1 | ETSI TS 118 101 [1], clause 10.2.4.2 | 3 (container) |
| TP/oneM2M/CSE/DMR/RET/014_CSR | Release 1 | ETSI TS 118 101 [1], clause 10.2.2.2 | 16 (remoteCSE) |
| TP/oneM2M/CSE/DMR/RET/014_SUB | Release 1 | ETSI TS 118 101 [1], clause 10.2.11.3 | 23 (subscription) |
| TP/oneM2M/CSE/DMR/RET/014_GRP | Release 1 | ETSI TS 118 101 [1], clause 10.2.7.3 | 9 (group) |
| TP/oneM2M/CSE/DMR/RET/014_DLV | Release 2 | ETSI TS 118 101 [1], clause 10.2.5.3 | 6 (delivery) |
| TP/oneM2M/CSE/DMR/RET/014_LCP | Release 2 | ETSI TS 118 101 [1], clause 10.2.10.1.2 | 10 (locationPolicy) |
| TP/oneM2M/CSE/DMR/RET/014_MGC | Release 2 | ETSI TS 118 101 [1], clause 10.2.8.3 | 12 (mgmtCmd) |
| TP/oneM2M/CSE/DMR/RET/014_NOD | Release 2 | ETSI TS 118 101 [1], clause 10.2.14.2 | 14 (node) |
| TP/oneM2M/CSE/DMR/RET/014_REQ | Release 2 | ETSI TS 118 101 [1], clause 10.2.20.2 | 17 (request) |
| TP/oneM2M/CSE/DMR/RET/014_SCH | Release 2 | ETSI TS 118 101 [1], clause 10.2.40.2 | 18 (schedule) |
| TP/oneM2M/CSE/DMR/RET/014_STCL | Release 2 | ETSI TS 118 101 [1], clause 10.2.15.11 | 21 (statsCollect) |
| TP/oneM2M/CSE/DMR/RET/014_STCG | Release 2 | ETSI TS 118 101 [1], clause 10.2.15.3 | 22 (statsConfig) |
| TP/oneM2M/CSE/DMR/RET/014_TS | Release 2 | ETSI TS 118 101 [1], clause 10.2.30.2 | 29 (timeSeries) |

TP/oneM2M/CSE/DMR/RET/015

| | | |
|---|--|--|
| TP Id | TP/oneM2M/CSE/DMR/RET/015 | |
| Test objective | Check that the IUT returns successfully the ATTRIBUTE of TARGET_RESOURCE_ADDRESS resource ("To" option) under CSEBase | |
| Reference | ETSI TS 118 101 [1], clause 10.1.2 | |
| Config Id | CF01 | |
| Parent Release | PARENT_RELEASE | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE and the IUT having created a resource TARGET_RESOURCE_ADDRESS of type RESOURCE_TYPE under the CSEBase resource and the AE having privileges to perform RETRIEVE operation on the resource TARGET_RESOURCE_ADDRESS } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid RETRIEVE Request from AE containing To set to TARGET_ATTRIBUTE_ADDRESS and From set to AE_ID and no Content } then { the IUT sends a valid Response containing Response Status Code set to 2000 (OK) and Content containing RESOURCE_TYPE resource containing valid ATTRIBUTE attribute and no other attribute } | IUT ← AE IUT → AE |
| NOTE: TARGET_ATTRIBUTE_ADDRESS is represented as TARGET_RESOURCE_ADDRESS # ATTRIBUTE. ATTRIBUTE indicates common attribute for all RESOURCE_TYPE resources listed in the table below. | | |

| TP Id | PARENT RELEASE | Reference | RESOURCE_TYPE |
|--------------------------------|----------------|---|-------------------------|
| TP/oneM2M/CSE/DMR/RET/015_ACP | Release 1 | ETSI TS 118 101 [1], clause 10.2.21.2 | 1 (accessControlPolicy) |
| TP/oneM2M/CSE/DMR/RET/015_AE | Release 1 | ETSI TS 118 101 [1], clause 10.2.1.2 | 2 (AE) |
| TP/oneM2M/CSE/DMR/RET/015_CNT | Release 1 | ETSI TS 118 101 [1], clause 10.2.4.2 | 3 (container) |
| TP/oneM2M/CSE/DMR/RET/015_CSR | Release 1 | ETSI TS 118 101 [1], clause 10.2.2.2 | 16 (remoteCSE) |
| TP/oneM2M/CSE/DMR/RET/015_SUB | Release 1 | ETSI TS 118 101 [1], clause 10.2.11.3 | 23 (subscription) |
| TP/oneM2M/CSE/DMR/RET/015_GRP | Release 1 | ETSI TS 118 101 [1], clause 10.2.7.3 | 9 (group) |
| TP/oneM2M/CSE/DMR/RET/015_DLV | Release 2 | ETSI TS 118 101 [1], clause 10.2.5.3 | 6 (delivery) |
| TP/oneM2M/CSE/DMR/RET/015_LCP | Release 2 | ETSI TS 118 101 [1], clause 10.2.10.1.2 | 10 (locationPolicy) |
| TP/oneM2M/CSE/DMR/RET/015_MGC | Release 2 | ETSI TS 118 101 [1], clause 10.2.8.3 | 12 (mgmtCmd) |
| TP/oneM2M/CSE/DMR/RET/015_NOD | Release 2 | ETSI TS 118 101 [1], clause 10.2.14.2 | 14 (node) |
| TP/oneM2M/CSE/DMR/RET/015_REQ | Release 2 | ETSI TS 118 101 [1], clause 10.2.20.2 | 17 (request) |
| TP/oneM2M/CSE/DMR/RET/015_SCH | Release 2 | ETSI TS 118 101 [1], clause 10.2.40.2 | 18 (schedule) |
| TP/oneM2M/CSE/DMR/RET/015_STCL | Release 2 | ETSI TS 118 101 [1], clause 10.2.15.11 | 21 (statsCollect) |
| TP/oneM2M/CSE/DMR/RET/015_STCG | Release 2 | ETSI TS 118 101 [1], clause 10.2.15.3 | 22 (statsConfig) |

| | | | |
|------------------------------|-----------|--|-----------------|
| TP/oneM2M/CSE/DMR/RET/015_TS | Release 2 | ETSI TS 118 101 [1], clause 10.2.30.2 | 29 (timeSeries) |
|------------------------------|-----------|--|-----------------|

TP/oneM2M/CSE/DMR/RET/016

| | | |
|---|--|------------------|
| TP Id | TP/oneM2M/CSE/DMR/RET/016 | |
| Test objective | Check that the IUT returns successfully the ATTRIBUTE of TARGET_RESOURCE_ADDRESS resource ("Content" option) under CSEBase | |
| Reference | ETSI TS 118 101 [1], clause 10.1.2 | |
| Config Id | CF01 | |
| Parent Release | PARENT_RELEASE | |
| PICS Selection | PICS_CSE | |
| Initial conditions | <p>with { the IUT being in the "initial state" and the IUT having registered the AE and the IUT having created a resource TARGET_RESOURCE_ADDRESS of type RESOURCE_TYPE under the CSEBase resource and the AE having privileges to perform RETRIEVE operation on the resource TARGET_RESOURCE_ADDRESS }</p> | |
| Expected behaviour | Test events | Direction |
| | <p>when { the IUT receives a valid RETRIEVE Request from AE containing To set to TARGET_RESOURCE_ADDRESS and From set to AE_ID and Content containing attributeList element containing ATTRIBUTE name }</p> | IUT ← AE |
| | <p>then { the IUT sends a valid Response containing Response Status Code set to 2000 (OK) and Content containing RESOURCE_TYPE resource containing valid ATTRIBUTE attribute and no other attribute }</p> | IUT → AE |
| NOTE: ATTRIBUTE indicates common attribute for all RESOURCE_TYPE resources listed in the table below. | | |

| TP Id | PARENT_RELEASE | Reference | RESOURCE_TYPE |
|-------------------------------|----------------|--|-------------------------|
| TP/oneM2M/CSE/DMR/RET/016_ACP | Release 1 | ETSI TS 118 101 [1], clause 10.2.21.2 | 1 (accessControlPolicy) |
| TP/oneM2M/CSE/DMR/RET/016_AE | Release 1 | ETSI TS 118 101 [1], clause 10.2.1.2 | 2 (AE) |
| TP/oneM2M/CSE/DMR/RET/016_CNT | Release 1 | ETSI TS 118 101 [1], clause 10.2.4.2 | 3 (container) |
| TP/oneM2M/CSE/DMR/RET/016_CSR | Release 1 | ETSI TS 118 101 [1], clause 10.2.2.2 | 16 (remoteCSE) |
| TP/oneM2M/CSE/DMR/RET/016_SUB | Release 1 | ETSI TS 118 101 [1], clause 10.2.11.3 | 23 (subscription) |
| TP/oneM2M/CSE/DMR/RET/016_GRP | Release 1 | ETSI TS 118 101 [1], clause 10.2.7.3 | 9 (group) |
| TP/oneM2M/CSE/DMR/RET/016_DLV | Release 2 | ETSI TS 118 101 [1], clause 10.2.5.3 | 6 (delivery) |
| TP/oneM2M/CSE/DMR/RET/016_LCP | Release 2 | ETSI TS 118 101 [1], clause 10.2.10.1.2 | 10 (locationPolicy) |
| TP/oneM2M/CSE/DMR/RET/016_MGC | Release 2 | ETSI TS 118 101 [1], clause 10.2.8.3 | 12 (mgmtCmd) |
| TP/oneM2M/CSE/DMR/RET/016_NOD | Release 2 | ETSI TS 118 101 [1], clause 10.2.14.2 | 14 (node) |
| TP/oneM2M/CSE/DMR/RET/016_REQ | Release 2 | ETSI TS 118 101 [1], clause 10.2.20.2 | 17 (request) |
| TP/oneM2M/CSE/DMR/RET/016_SCH | Release 2 | ETSI TS 118 101 [1], clause 10.2.40.2 | 18 (schedule) |

| | | | |
|--------------------------------|-----------|---|-------------------|
| TP/oneM2M/CSE/DMR/RET/016_STCL | Release 2 | ETSI TS 118 101 [1], clause 10.2.15.11 | 21 (statsCollect) |
| TP/oneM2M/CSE/DMR/RET/016_STCG | Release 2 | ETSI TS 118 101 [1], clause 10.2.15.3 | 22 (statsConfig) |
| TP/oneM2M/CSE/DMR/RET/016_TS | Release 2 | ETSI TS 118 101 [1], clause 10.2.30.2 | 29 (timeSeries) |

TP/oneM2M/CSE/DMR/RET/017

| | | | |
|---|---|------------------|--|
| TP Id | TP/oneM2M/CSE/DMR/RET/017 | | |
| Test objective | Check that the IUT returns successfully multiple attributes of TARGET_RESOURCE_ADDRESS resource under CSEBase | | |
| Reference | ETSI TS 118 101 [1], clause 10.1.2 | | |
| Config Id | CF01 | | |
| Parent Release | PARENT_RELEASE | | |
| PICS Selection | PICS_CSE | | |
| Initial conditions | <p>with {</p> <p>the IUT being in the "initial state"</p> <p>and the IUT having registered the AE</p> <p>and the IUT having created a resource TARGET_RESOURCE_ADDRESS of type RESOURCE_TYPE under the CSEBase resource</p> <p>and the AE having privileges to perform RETRIEVE operation on the resource TARGET_RESOURCE_ADDRESS</p> <p>}</p> | | |
| Expected behaviour | Test events | Direction | |
| | <p>when {</p> <p>the IUT receives a valid RETRIEVE Request from AE containing</p> <p>To set to TARGET_RESOURCE_ADDRESS and</p> <p>From set to AE_ID and</p> <p>Content containing</p> <p>attributeList element containing</p> <p>ATTRIBUTE_1 name</p> <p>and ATTRIBUTE_2 name</p> <p>}</p> | IUT ← AE | |
| | <p>then {</p> <p>the IUT sends a valid Response containing</p> <p>Response Status Code set to 2000 (OK) and</p> <p>Content containing</p> <p>RESOURCE_TYPE resource containing</p> <p>valid ATTRIBUTE_1 attribute and</p> <p>valid ATTRIBUTE_2 attribute and</p> <p>no other attribute</p> <p>}</p> | IUT → AE | |
| <p>NOTE: ATTRIBUTE_1 indicates common attribute for all RESOURCE_TYPE resources listed in the table below.</p> <p>ATTRIBUTE_2 indicates common attribute for all RESOURCE_TYPE resources listed in the table below.</p> | | | |

| TP Id | PARENT_RELEASE | Reference | RESOURCE_TYPE |
|-------------------------------|----------------|--|-------------------------|
| TP/oneM2M/CSE/DMR/RET/017_ACP | Release 1 | ETSI TS 118 101 [1], clause 10.2.21.2 | 1 (accessControlPolicy) |
| TP/oneM2M/CSE/DMR/RET/017_AE | Release 1 | ETSI TS 118 101 [1], clause 10.2.1.2 | 2 (AE) |
| TP/oneM2M/CSE/DMR/RET/017_CNT | Release 1 | ETSI TS 118 101 [1], clause 10.2.4.2 | 3 (container) |
| TP/oneM2M/CSE/DMR/RET/017_CSR | Release 1 | ETSI TS 118 101 [1], clause 10.2.2.2 | 16 (remoteCSE) |
| TP/oneM2M/CSE/DMR/RET/017_SUB | Release 1 | ETSI TS 118 101 [1], clause 10.2.11.3 | 23 (subscription) |
| TP/oneM2M/CSE/DMR/RET/017_GRP | Release 1 | ETSI TS 118 101 [1], clause 10.2.7.3 | 9 (group) |
| TP/oneM2M/CSE/DMR/RET/017_DLV | Release 2 | ETSI TS 118 101 [1], clause 10.2.5.3 | 6 (delivery) |
| TP/oneM2M/CSE/DMR/RET/017_LCP | Release 2 | ETSI TS 118 101 [1], clause 10.2.10.1.2 | 10 (locationPolicy) |

| | | | |
|--------------------------------|-----------|---|-------------------|
| TP/oneM2M/CSE/DMR/RET/017_MGC | Release 2 | ETSI TS 118 101 [1], clause 10.2.8.3 | 12 (mgmtCmd) |
| TP/oneM2M/CSE/DMR/RET/017_NOD | Release 2 | ETSI TS 118 101 [1], clause 10.2.14.2 | 14 (node) |
| TP/oneM2M/CSE/DMR/RET/017_REQ | Release 2 | ETSI TS 118 101 [1], clause 10.2.20.2 | 17 (request) |
| TP/oneM2M/CSE/DMR/RET/017_SCH | Release 2 | ETSI TS 118 101 [1], clause 10.2.40.2 | 18 (schedule) |
| TP/oneM2M/CSE/DMR/RET/017_STCL | Release 2 | ETSI TS 118 101 [1], clause 10.2.15.11 | 21 (statsCollect) |
| TP/oneM2M/CSE/DMR/RET/017_STCG | Release 2 | ETSI TS 118 101 [1], clause 10.2.15.3 | 22 (statsConfig) |
| TP/oneM2M/CSE/DMR/RET/017_TS | Release 2 | ETSI TS 118 101 [1], clause 10.2.30.2 | 29 (timeSeries) |

TP/oneM2M/CSE/DMR/RET/018

| | | |
|---------------------------|--|------------------|
| TP Id | TP/oneM2M/CSE/DMR/RET/018 | |
| Test objective | Check that the IUT responds with an error when the AE tries to retrieve a non-existing attribute of the TARGET_RESOURCE_ADDRESS resource ("single" attribute case) under CSEBase | |
| Reference | ETSI TS 118 101 [1], clause 10.1.2 | |
| Config Id | CF01 | |
| Parent Release | PARENT_RELEASE | |
| PICS Selection | PICS_CSE | |
| Initial conditions | <p>with {</p> <p>the IUT being in the "initial state"</p> <p>and the IUT having registered the AE</p> <p>and the IUT having created a resource TARGET_RESOURCE_ADDRESS of type RESOURCE_TYPE under the CSEBase resource containing</p> <p>no attribute ATTRIBUTE</p> <p>and the AE having privileges to perform RETRIEVE operation on the resource TARGET_RESOURCE_ADDRESS</p> <p>}</p> | |
| Expected behaviour | Test events | Direction |
| | <p>when {</p> <p>the IUT receives a valid RETRIEVE Request from AE containing</p> <p>To set to TARGET_RESOURCE_ADDRESS and</p> <p>From set to AE_ID and</p> <p>Content containing</p> <p>attributeList element containing</p> <p>ATTRIBUTE name</p> <p>}</p> | IUT ← AE |
| | <p>then {</p> <p>the IUT sends a valid Response containing</p> <p>Response Status Code set to 4004 (NOT_FOUND)</p> <p>}</p> | IUT → AE |

| TP Id | PARENT_RELEASE | Reference | RESOURCE_TYPE | ATTRIBUTE |
|-----------------------------------|----------------|--|-------------------------|-----------|
| TP/oneM2M/CSE/DMR/RET/018_ACP/LBL | Release 1 | ETSI TS 118 101 [1], clause 10.2.21.2 | 1 (accessControlPolicy) | labels |
| TP/oneM2M/CSE/DMR/RET/018_AE/LBL | Release 1 | ETSI TS 118 101 [1], clause 10.2.1.2 | 2 (AE) | labels |
| TP/oneM2M/CSE/DMR/RET/018_CNT/LBL | Release 1 | ETSI TS 118 101 [1], clause 10.2.4.2 | 3 (container) | labels |
| TP/oneM2M/CSE/DMR/RET/018_CSR/LBL | Release 1 | ETSI TS 118 101 [1], clause 10.2.2.2 | 16 (remoteCSE) | labels |
| TP/oneM2M/CSE/DMR/RET/018_SUB/LBL | Release 1 | ETSI TS 118 101 [1], clause 10.2.11.3 | 23 (subscription) | labels |
| TP/oneM2M/CSE/DMR/RET/018_GRP/LBL | Release 1 | ETSI TS 118 101 [1], clause 10.2.7.3 | 9 (group) | labels |
| TP/oneM2M/CSE/DMR/RET/018_DLV/LBL | Release 2 | ETSI TS 118 101 [1], clause 10.2.5.3 | 6 (delivery) | labels |
| TP/oneM2M/CSE/DMR/RET/018_LCP/LBL | Release 2 | ETSI TS 118 101 [1], clause 10.2.10.1.2 | 10 (locationPolicy) | labels |

| | | | | |
|------------------------------------|-----------|--|-------------------|--------|
| TP/oneM2M/CSE/DMR/RET/018_MGC/LBL | Release 2 | ETSI TS 118 101 [1], clause 10.2.8.3 | 12 (mgmtCmd) | labels |
| TP/oneM2M/CSE/DMR/RET/018_NOD/LBL | Release 2 | ETSI TS 118 101 [1], clause 10.2.14.2 | 14 (node) | labels |
| TP/oneM2M/CSE/DMR/RET/018_REQ/LBL | Release 2 | ETSI TS 118 101 [1], clause 10.2.20.2 | 17 (request) | labels |
| TP/oneM2M/CSE/DMR/RET/018_SCH/LBL | Release 2 | ETSI TS 118 101 [1], clause 10.2.40.2 | 18 (schedule) | labels |
| TP/oneM2M/CSE/DMR/RET/018_STCL/LBL | Release 2 | ETSI TS 118 101 [1], clause 10.2.15.11 | 21 (statsCollect) | labels |
| TP/oneM2M/CSE/DMR/RET/018_STCG/LBL | Release 2 | ETSI TS 118 101 [1], clause 10.2.15.3 | 22 (statsConfig) | labels |
| TP/oneM2M/CSE/DMR/RET/018_TS | Release 2 | ETSI TS 118 101 [1], clause 10.2.30.2 | 29 (timeSeries) | labels |

TP/oneM2M/CSE/DMR/RET/019

| | | | |
|---------------------------|--|---------------------------------|--|
| TP Id | TP/oneM2M/CSE/DMR/RET/019 | | |
| Test objective | Check that the IUT responds with an error when the AE tries to retrieve a non-existing attribute of the TARGET_RESOURCE_ADDRESS resource ("multiple" attributes case) under CSEBase | | |
| Reference | ETSI TS 118 101 [1], clause 10.1.2 | | |
| Config Id | CF01 | | |
| Parent Release | PARENT_RELEASE | | |
| PICS Selection | PICS_CSE | | |
| Initial conditions | <p>with {</p> <p>the IUT being in the "initial state"</p> <p>and the IUT having registered the AE</p> <p>and the IUT having created a resource TARGET_RESOURCE_ADDRESS of type RESOURCE_TYPE under the <CSEBase> resource containing</p> <p>no ATTRIBUTE_1 attribute and</p> <p>no ATTRIBUTE_2 attribute</p> <p>and the AE having privileges to perform RETRIEVE operation on the resource TARGET_RESOURCE_ADDRESS</p> <p>}</p> | | |
| Expected behaviour | Test events | Direction | |
| | <p>when {</p> <p>the IUT receives a valid RETRIEVE Request from AE containing</p> <p>To set to TARGET_RESOURCE_ADDRESS and</p> <p>From set to AE_ID and</p> <p>Content containing</p> <p>attributeList element containing</p> <p>ATTRIBUTE_1 name</p> <p>and ATTRIBUTE_2 name</p> <p>}</p> <p>then {</p> <p>the IUT sends a valid Response containing</p> <p>Response Status Code set to 4004 (NOT_FOUND)</p> <p>}</p> | <p>IUT ← AE</p> <p>IUT → AE</p> | |

| TP Id | PARENT_RELEASE | Reference | RESOURCE_TYPE | ATTRIBUTE_1 | ATTRIBUTE_2 |
|--------------------------------------|----------------|---------------------------------------|-------------------------|-------------|-------------|
| TP/oneM2M/CSE/DMR/RET/019_ACP/LBL/AT | Release 1 | ETSI TS 118 101 [1], clause 10.2.21.2 | 1 (accessControlPolicy) | labels | announceTo |
| TP/oneM2M/CSE/DMR/RET/019_AE/LBL/AT | Release 1 | ETSI TS 118 101 [1], clause 10.2.1.2 | 2 (AE) | labels | announceTo |
| TP/oneM2M/CSE/DMR/RET/019_CNT/LBL/AT | Release 1 | ETSI TS 118 101 [1], clause 10.2.4.2 | 3 (container) | labels | announceTo |
| TP/oneM2M/CSE/DMR/RET/019_CSR/LBL/AT | Release 1 | ETSI TS 118 101 [1], clause 10.2.2.2 | 16 (remoteCSE) | labels | announceTo |
| TP/oneM2M/CSE/DMR/RET/019_SUB/LBL/AT | Release 1 | ETSI TS 118 101 [1], clause 10.2.11.3 | 23 (subscription) | labels | announceTo |
| TP/oneM2M/CSE/DMR/RET/019_GRP/LBL/AT | Release 1 | ETSI TS 118 101 [1], clause 10.2.7.3 | 9 (group) | labels | announceTo |

| | | | | | |
|---------------------------------------|-----------|---|---------------------|--------|------------|
| TP/oneM2M/CSE/DMR/RET/019_DL/LBL/AT | Release 2 | ETSI TS 118 101 [1], clause 10.2.5.3 | 6 (delivery) | labels | announceTo |
| TP/oneM2M/CSE/DMR/RET/019_LCP/LBL/AT | Release 2 | ETSI TS 118 101 [1], clause 10.2.10.1.2 | 10 (locationPolicy) | labels | announceTo |
| TP/oneM2M/CSE/DMR/RET/019_MGC/LBL/AT | Release 2 | ETSI TS 118 101 [1], clause 10.2.8.3 | 12 (mgmtCmd) | labels | announceTo |
| TP/oneM2M/CSE/DMR/RET/019_NOD/LBL/AT | Release 2 | ETSI TS 118 101 [1], clause 10.2.14.2 | 14 (node) | labels | announceTo |
| TP/oneM2M/CSE/DMR/RET/019_REQ/LBL/AT | Release 2 | ETSI TS 118 101 [1], clause 10.2.20.2 | 17 (request) | labels | announceTo |
| TP/oneM2M/CSE/DMR/RET/019_SCH/LBL/AT | Release 2 | ETSI TS 118 101 [1], clause 10.2.40.2 | 18 (schedule) | labels | announceTo |
| TP/oneM2M/CSE/DMR/RET/019_STCL/LBL/AT | Release 2 | ETSI TS 118 101 [1], clause 10.2.15.11 | 21 (statsCollect) | labels | announceTo |
| TP/oneM2M/CSE/DMR/RET/019_STCG/LBL/AT | Release 2 | ETSI TS 118 101 [1], clause 10.2.15.3 | 22 (statsConfig) | labels | announceTo |
| TP/oneM2M/CSE/DMR/RET/019_TS/LBL/AT | Release 2 | ETSI TS 118 101 [1], clause 10.2.30.2 | 29 (timeSeries) | labels | announceTo |

TP/oneM2M/CSE/DMR/RET/020

| | | |
|---------------------------|---|------------------|
| TP Id | TP/oneM2M/CSE/DMR/RET/020 | |
| Test objective | Check that the IUT rejects a RETRIEVE Request target to TARGET_RESOURCE_ADDRESS resource when the Result Content set to RESULT_CONTENT | |
| Reference | ETSI TS 118 101 [1], clause 8.1.2, ETSI TS 118 104 [2], clause 7.3.2.1 | |
| Config Id | CF01 | |
| Parent Release | Release 2 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE and the IUT having created a resource TARGET_RESOURCE_ADDRESS of type RESOURCE_TYPE and the AE having privileges to perform RETRIEVE operation on the resource TARGET_RESOURCE_ADDRESS } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid RETRIEVE Request from AE containing To set to TARGET_RESOURCE_ADDRESS and From set to AE_ID and no Content and Result Content set to RESULT_CONTENT } | IUT ← AE |
| | then { the IUT sends a valid Response containing Response Status Code set to 4000 (BAD_REQUEST) and no Content } | IUT → AE |

| TP Id | Reference | RESULT_CONTENT |
|---------------------------------|---------------------------------------|---|
| TP/oneM2M/CSE/DMR/RET/020_RCN/0 | ETSI TS 118 104 [2], clause 6.3.4.2.7 | 0 (Nothing) |
| TP/oneM2M/CSE/DMR/RET/020_RCN/2 | | 2 (hierarchical address) |
| TP/oneM2M/CSE/DMR/RET/020_RCN/3 | | 3 (attributes and hierarchical address) |
| TP/oneM2M/CSE/DMR/RET/020_RCN/9 | | 9 (modified attributes) |

TP/oneM2M/CSE/DMR/RET/021

| | | |
|---------------------------|--|------------------|
| TP Id | TP/oneM2M/CSE/DMR/RET/021 | |
| Test objective | Check that the IUT returns successfully only attributes of TARGET_RESOURCE_ADDRESS resource when the Result Content is set to 1 (attributes) | |
| Reference | ETSI TS 118 101 [1], clause 8.1.2, ETSI TS 118 104 [2], clause 6.3.3.2.7 | |
| Config Id | CF01 | |
| Parent Release | PARENT_RELEASE | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE and the IUT having created a resource TARGET_RESOURCE_ADDRESS of type RESOURCE_TYPE containing a child resource and the AE having privileges to perform RETRIEVE operation on the resource TARGET_RESOURCE_ADDRESS } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid RETRIEVE Request from AE containing To set to TARGET_RESOURCE_ADDRESS and From set to AE_ID and no Content and Result Content set to 1 (attributes) } | IUT ← AE |
| | then { the IUT sends a valid Response containing Response Status Code set to 2000 (OK) and Content containing RESOURCE_TYPE resource containing attributes and no hierarchichal address and no child resources and no child resource references } | IUT → AE |

| TP Id | PARENT_RELEASE | RESOURCE_TYPE |
|-------------------------------|----------------|-------------------------|
| TP/oneM2M/CSE/DMR/RET/021_CNT | Release 2 | 3 (container) |
| TP/oneM2M/CSE/DMR/RET/021_GRP | Release 2 | 9 (group) |
| TP/oneM2M/CSE/DMR/RET/021_ACP | Release 2 | 1 (accessControlPolicy) |

TP/oneM2M/CSE/DMR/RET/023

| | | |
|---------------------------|--|------------------|
| TP Id | TP/oneM2M/CSE/DMR/RET/023 | |
| Test objective | Check that the IUT returns successfully only attributes and child resource references of TARGET_RESOURCE_ADDRESS resource when the Result Content is set to 5 (attributes and child resource references) | |
| Reference | ETSI TS 118 101 [1], clause 8.1.2, ETSI TS 118 104 [2], clause 6.3.3.2.7 | |
| Config Id | CF01 | |
| Parent Release | PARENT_RELEASE | |
| PICS Selection | PICS_CSE | |
| Initial conditions | <p>with {</p> <ul style="list-style-type: none"> the IUT being in the "initial state" and the IUT having registered the AE and the IUT having created a resource TARGET_RESOURCE_ADDRESS of type RESOURCE_TYPE containing <ul style="list-style-type: none"> a child resource and the AE having privileges to perform RETRIEVE operation on the resource TARGET_RESOURCE_ADDRESS <p>}</p> | |
| Expected behaviour | Test events | Direction |
| | <p>when {</p> <ul style="list-style-type: none"> the IUT receives a valid RETRIEVE Request from AE containing <li style="padding-left: 40px;">To set to TARGET_RESOURCE_ADDRESS and <li style="padding-left: 40px;">From set to AE_ID and <li style="padding-left: 40px;">no Content and <li style="padding-left: 40px;">Result Content set to 5 (attributes and child resource references) <p>}</p> | IUT ← AE |
| | <p>then {</p> <ul style="list-style-type: none"> the IUT sends a valid Response containing <li style="padding-left: 40px;">Response Status Code set to 2000 (OK) and <li style="padding-left: 40px;">Content containing <li style="padding-left: 80px;">RESOURCE_TYPE resource containing <li style="padding-left: 120px;">attributes and <li style="padding-left: 120px;">no hierarchichal address and <li style="padding-left: 120px;">no child resources and <li style="padding-left: 120px;">child resource references <p>}</p> | IUT → AE |

| TP Id | PARENT_RELEASE | RESOURCE_TYPE |
|-------------------------------|----------------|-------------------------|
| TP/oneM2M/CSE/DMR/RET/023_CNT | Release 2 | 3 (container) |
| TP/oneM2M/CSE/DMR/RET/023_GRP | Release 2 | 9 (group) |
| TP/oneM2M/CSE/DMR/RET/023_ACP | Release 2 | 1 (accessControlPolicy) |

TP/oneM2M/CSE/DMR/RET/024

| | | |
|---------------------------|--|--------------------------------------|
| TP Id | TP/oneM2M/CSE/DMR/RET/024 | |
| Test objective | Check that the IUT returns successfully only child resource references of TARGET_RESOURCE_ADDRESS resource when Result Content is set to 6 (child resource references) | |
| Reference | ETSI TS 118 101 [1], clause 8.1.2, ETSI TS 118 104 [2], clause 6.3.3.2.7 | |
| Config Id | CF01 | |
| Parent Release | PARENT_RELEASE | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE and the IUT having created a resource TARGET_RESOURCE_ADDRESS of type RESOURCE_TYPE containing a child resource and the AE having privileges to perform RETRIEVE operation on the resource TARGET_RESOURCE_ADDRESS } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid RETRIEVE Request from AE containing To set to TARGET_RESOURCE_ADDRESS and From set to AE_ID and no Content and Result Content set to 6 (child resource references) } then { the IUT sends a valid Response containing Response Status Code set to 2000 (OK) and Content containing resourceRefList element containing child resource reference } | IUT ← AE IUT → AE |

| TP Id | PARENT_RELEASE | RESOURCE_TYPE |
|-------------------------------|----------------|-------------------------|
| TP/oneM2M/CSE/DMR/RET/024_CNT | Release 2 | 3 (container) |
| TP/oneM2M/CSE/DMR/RET/024_GRP | Release 2 | 9 (group) |
| TP/oneM2M/CSE/DMR/RET/024_ACP | Release 2 | 1 (accessControlPolicy) |

TP/oneM2M/CSE/DMR/RET/025

| | | |
|---------------------------|---|------------------|
| TP Id | TP/oneM2M/CSE/DMR/RET/025 | |
| Test objective | Check that the IUT returns successfully only child resources of TARGET_RESOURCE_ADDRESS resource when Result Content is set to 8 (child resources) | |
| Reference | ETSI TS 118 101 [1], clause 8.1.2, ETSI TS 118 104 [2], clause 6.3.3.2.7 | |
| Config Id | CF01 | |
| Parent Release | PARENT_RELEASE | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE and the IUT having created a resource TARGET_RESOURCE_ADDRESS of type RESOURCE_TYPE containing a child resource and the AE having privileges to perform RETRIEVE operation on the resource TARGET_RESOURCE_ADDRESS } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid RETRIEVE Request from AE containing To set to TARGET_RESOURCE_ADDRESS and From set to AE_ID and no Content and Result Content set to 8 (child resources) } | IUT ← AE |
| | then { the IUT sends a valid Response containing Response Status Code set to 2000 (OK) and Content containing CHILD_RESOURCE_TYPE resource representation } | IUT → AE |

| TP Id | PARENT_RELEASE | RESOURCE_TYPE |
|-------------------------------|----------------|-------------------------|
| TP/oneM2M/CSE/DMR/RET/025_CNT | Release 2 | 3 (container) |
| TP/oneM2M/CSE/DMR/RET/025_GRP | Release 2 | 9 (group) |
| TP/oneM2M/CSE/DMR/RET/025_ACP | Release 2 | 1 (accessControlPolicy) |

7.2.2.3.2 UPDATE Operation

TP/oneM2M/CSE/DMR/UPD/001

| | | |
|---------------------------|--|------------------|
| TP Id | TP/oneM2M/CSE/DMR/UPD/001 | |
| Test objective | Check that the IUT updates successfully the value of the attribute <i>ATTRIBUTE_NAME</i> of the <i>TARGET_RESOURCE_ADDRESS</i> resource | |
| Reference | ETSI TS 118 101 [1], clause 10.1.3 | |
| Config Id | CF01 | |
| Parent Release | <i>PARENT_RELEASE</i> | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE and the IUT having created a resource <i>TARGET_RESOURCE_ADDRESS</i> of type <i>RESOURCE_TYPE</i> containing a RW <i>ATTRIBUTE_NAME</i> attribute set to VALUE_1 and the AE having privileges to perform UPDATE operation on the resource <i>TARGET_RESOURCE_ADDRESS</i> } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid UPDATE Request from AE containing To set to <i>TARGET_RESOURCE_ADDRESS</i> and From set to AE_ID and Content containing <i>RESOURCE_TYPE</i> resource containing <i>ATTRIBUTE_NAME</i> attribute set to VALUE_2 } | IUT ← AE |
| | then { the IUT updates the <i>TARGET_RESOURCE_ADDRESS</i> resource and the IUT sends a valid Response containing Response Status Code set to 2004 (UPDATED) and Content containing <i>RESOURCE_TYPE</i> resource containing <i>ATTRIBUTE_NAME</i> attribute set to VALUE_2 } | IUT → AE |

| TP Id | PARENT_RELEASE | Reference | RESOURCE_TYPE | ATTRIBUTE_NAME |
|-----------------------------------|----------------|---------------------------------------|-------------------------|----------------|
| TP/oneM2M/CSE/DMR/UPD/001_CNT/LBL | Release 1 | ETSI TS 118 101 [1], clause 10.2.4.3 | 3 (container) | labels |
| TP/oneM2M/CSE/DMR/UPD/001_ACP/LBL | Release 1 | ETSI TS 118 101 [1], clause 10.2.21.3 | 1 (accessControlPolicy) | labels |
| TP/oneM2M/CSE/DMR/UPD/001_SUB/LBL | Release 1 | ETSI TS 118 101 [1], clause 10.2.11.4 | 23 (subscription) | labels |
| TP/oneM2M/CSE/DMR/UPD/001_GRP/LBL | Release 1 | ETSI TS 118 101 [1], clause 10.2.7.4 | 9 (group) | labels |
| TP/oneM2M/CSE/DMR/UPD/001_SCH/LBL | Release 2 | ETSI TS 118 101 [1], clause 10.2.40.2 | 18 (schedule) | labels |
| TP/oneM2M/CSE/DMR/UPD/001_PCH/LBL | Release 2 | ETSI TS 118 101 [1], clause 10.2.13.4 | 15 (pollingChannel) | labels |
| TP/oneM2M/CSE/DMR/UPD/001_TS/LBL | Release 2 | ETSI TS 118 101 [1], clause 10.2.13.4 | 29 (timeSeries) | labels |

TP/oneM2M/CSE/DMR/UPD/002

| | | |
|---------------------------|--|------------------|
| TP Id | TP/oneM2M/CSE/DMR/UPD/002 | |
| Test objective | Check that the IUT adds successfully the attribute <i>ATTRIBUTE_NAME</i> to the <i>TARGET_RESOURCE_ADDRESS</i> resource | |
| Reference | ETSI TS 118 101 [1], clause 10.1.3 | |
| Config Id | CF01 | |
| Parent Release | <i>PARENT_RELEASE</i> | |
| PICS Selection | <i>PICS_CSE</i> | |
| Initial conditions | <p>with { the IUT being in the "initial state" and the IUT having registered the AE and the IUT having created a resource <i>TARGET_RESOURCE_ADDRESS</i> of type <i>RESOURCE_TYPE</i> containing no optional RW <i>ATTRIBUTE_NAME</i> attribute and the AE having privileges to perform UPDATE operation on the resource <i>TARGET_RESOURCE_ADDRESS</i> }</p> | |
| Expected behaviour | Test events | Direction |
| | <p>when { the IUT receives a valid UPDATE Request from AE containing To set to <i>TARGET_RESOURCE_ADDRESS</i> and From set to AE_ID and Content containing <i>RESOURCE_TYPE</i> resource containing <i>ATTRIBUTE_NAME</i> attribute set to VALUE_1 }</p> | IUT ← AE |
| | <p>then { the IUT updates the <i>TARGET_RESOURCE_ADDRESS</i> resource and the IUT sends a valid Response containing Response Status Code set to 2004 (UPDATED) and Content containing <i>RESOURCE_TYPE</i> resource containing <i>ATTRIBUTE_NAME</i> attribute set to VALUE_1 }</p> | IUT → AE |

| TP Id | PARENT RELEASE | PICS Selection | Reference | RESOURCE TYPE | ATTRIBUTE NAME |
|-----------------------------------|----------------|----------------|---------------------------------------|--------------------------|----------------|
| TP/oneM2M/CSE/DMR/UPD/002_CNT/LBL | Release 1 | PICS_CNT_LBL | ETSI TS 118 101 [1], clause 10.2.4.3 | 3 (container) | labels |
| TP/oneM2M/CSE/DMR/UPD/002_ACP/LBL | Release 1 | PICS_ACP_LBL | ETSI TS 118 101 [1], clause 10.2.21.3 | 1 (accessControl Policy) | labels |
| TP/oneM2M/CSE/DMR/UPD/002_SUB/LBL | Release 1 | PICS_SUB_LBL | ETSI TS 118 101 [1], clause 10.2.11.4 | 23 (subscription) | labels |
| TP/oneM2M/CSE/DMR/UPD/002_GRP/LBL | Release 1 | PICS_GRP_LBL | ETSI TS 118 101 [1], clause 10.2.7.4 | 9 (group) | labels |
| TP/oneM2M/CSE/DMR/UPD/002_SCH/LBL | Release 2 | | ETSI TS 118 101 [1], clause 10.2.40.2 | 18 (schedule) | labels |
| TP/oneM2M/CSE/DMR/UPD/002_PCH/LBL | Release 2 | | ETSI TS 118 101 [1], clause 10.2.13.4 | 15 (pollingChannel) | labels |
| TP/oneM2M/CSE/DMR/UPD/002_TS/LBL | Release 2 | | ETSI TS 118 101 [1], clause 10.2.30.3 | 29 (timeSeries) | labels |

TP/oneM2M/CSE/DMR/UPD/003

| | | |
|---------------------------|---|------------------|
| TP Id | TP/oneM2M/CSE/DMR/UPD/003 | |
| Test objective | Check that the IUT deletes successfully the attribute <i>ATTRIBUTE_NAME</i> from the <i>TARGET_RESOURCE_ADDRESS</i> resource | |
| Reference | ETSI TS 118 101 [1], clause 10.1.3 | |
| Config Id | CF01 | |
| Parent Release | <i>PARENT_RELEASE</i> | |
| PICS Selection | PICS_CSE | |
| Initial conditions | <p>with { the IUT being in the "initial state" and the IUT having registered the AE and the IUT having created a resource <i>TARGET_RESOURCE_ADDRESS</i> of type <i>RESOURCE_TYPE</i> containing an optional RW <i>ATTRIBUTE_NAME</i> attribute and the AE having privileges to perform UPDATE operation on the resource <i>TARGET_RESOURCE_ADDRESS</i> }</p> | |
| Expected behaviour | Test events | Direction |
| | <p>when { the IUT receives a valid UPDATE Request from AE containing To set to <i>TARGET_RESOURCE_ADDRESS</i> and From set to <i>AE_ID</i> and Content containing <i>RESOURCE_TYPE</i> resource containing <i>ATTRIBUTE_NAME</i> attribute set to NULL }</p> | IUT ← AE |
| | <p>then { the IUT updates the <i>TARGET_RESOURCE_ADDRESS</i> resource and the IUT sends a valid Response containing Response Status Code set to 2004 (UPDATED) and Content containing <i>RESOURCE_TYPE</i> resource containing <i>ATTRIBUTE_NAME</i> attribute set to NULL }</p> | IUT → AE |

| TP Id | PARENT RELEASE | PICS Selection | Reference | RESOURCE_TYPE | ATTRIBUTE_NAME |
|-----------------------------------|----------------|----------------|---------------------------------------|-------------------------|----------------|
| TP/oneM2M/CSE/DMR/UPD/003_CNT/LBL | Release 1 | PICS_CNT_LBL | ETSI TS 118 101 [1], clause 10.2.4.3 | 3 (container) | labels |
| TP/oneM2M/CSE/DMR/UPD/003_ACP/LBL | Release 1 | PICS_ACP_LBL | ETSI TS 118 101 [1], clause 10.2.21.3 | 1 (accessControlPolicy) | labels |
| TP/oneM2M/CSE/DMR/UPD/003_SUB/LBL | Release 1 | PICS_SUB_LBL | ETSI TS 118 101 [1], clause 10.2.11.4 | 23 (subscription) | labels |
| TP/oneM2M/CSE/DMR/UPD/003_GRP/LBL | Release 1 | PICS_GRP_LBL | ETSI TS 118 101 [1], clause 10.2.7.4 | 9 (group) | labels |
| TP/oneM2M/CSE/DMR/UPD/003_SCH/LBL | Release 2 | | ETSI TS 118 101 [1], clause 10.2.40.2 | 18 (schedule) | labels |
| TP/oneM2M/CSE/DMR/UPD/003_PCH/LBL | Release 2 | | ETSI TS 118 101 [1], clause 10.2.13.4 | 15 (pollingChannel) | labels |
| TP/oneM2M/CSE/DMR/UPD/003_TS/LBL | Release 2 | | ETSI TS 118 101 [1], clause 10.2.30.3 | 29 (timeSeries) | labels |

TP/oneM2M/CSE/DMR/UPD/004

| | | |
|---------------------------|--|------------------|
| TP Id | TP/oneM2M/CSE/DMR/UPD/004 | |
| Test objective | Check that the IUT updates the value of the attribute <i>ATTRIBUTE_NAME_1</i> , and creates the <i>ATTRIBUTE_NAME_2</i> and deletes the <i>ATTRIBUTE_NAME_3</i> of the <i>TARGET_RESOURCE_ADDRESS</i> resource | |
| Reference | ETSI TS 118 101 [1], clause 10.1.3 | |
| Config Id | CF01 | |
| Parent Release | <i>PARENT_RELEASE</i> | |
| PICS Selection | PICS_CSE | |
| Initial conditions | <p>with {</p> <p>the IUT being in the "initial state"</p> <p>and the IUT having registered the AE</p> <p>and the IUT having created a resource <i>TARGET_RESOURCE_ADDRESS</i> of type <i>RESOURCE_TYPE</i> containing</p> <p style="padding-left: 20px;">a RW <i>ATTRIBUTE_NAME_1</i> attribute set to VALUE_1 and</p> <p style="padding-left: 20px;">no optional RW <i>ATTRIBUTE_NAME_2</i> attribute and</p> <p style="padding-left: 20px;">an optional RW <i>ATTRIBUTE_NAME_3</i> attribute</p> <p>and the AE having privileges to perform UPDATE operation on the resource <i>TARGET_RESOURCE_ADDRESS</i></p> <p>}</p> | |
| Expected behaviour | Test events | Direction |
| | <p>when {</p> <p>the IUT receives a valid UPDATE Request from AE containing</p> <p style="padding-left: 20px;">To set to <i>TARGET_RESOURCE_ADDRESS</i> and</p> <p style="padding-left: 20px;">From set to AE_ID and</p> <p style="padding-left: 20px;">Content containing</p> <p style="padding-left: 40px;"><i>RESOURCE_TYPE</i> resource containing</p> <p style="padding-left: 60px;"><i>ATTRIBUTE_NAME_1</i> attribute set to VALUE_2 and</p> <p style="padding-left: 60px;"><i>ATTRIBUTE_NAME_2</i> attribute set to VALUE_3 and</p> <p style="padding-left: 60px;"><i>ATTRIBUTE_NAME_3</i> attribute set to NULL</p> <p>}</p> | IUT ← AE |
| | <p>then {</p> <p>the IUT updates the <i>TARGET_RESOURCE_ADDRESS</i> resource</p> <p>and the IUT sends a valid Response containing</p> <p style="padding-left: 20px;">Response Status Code set to 2004 (UPDATED) and</p> <p style="padding-left: 20px;">Content containing</p> <p style="padding-left: 40px;"><i>RESOURCE_TYPE</i> resource containing</p> <p style="padding-left: 60px;"><i>ATTRIBUTE_NAME_1</i> attribute set to VALUE_2 and</p> <p style="padding-left: 60px;"><i>ATTRIBUTE_NAME_2</i> attribute set to VALUE_3 and</p> <p style="padding-left: 60px;"><i>ATTRIBUTE_NAME_3</i> attribute set to NULL</p> <p>}</p> | IUT → AE |

| TP Id | PARENT_RELEASE | PICS Selection | Reference | RESOURCE_TYPE | ATTRIBUTE_NAME_1 | ATTRIBUTE_NAME_2 | ATTRIBUTE_NAME_3 |
|--|----------------|---|--|----------------------------|------------------|------------------|-------------------|
| TP/oneM2M/CSE/DMR/UPD/004_CNT/ET/MNI/LBL | Release 1 | PICS_CN T_MNI and PICS_CN T_LBL | ETSI TS 118 101 [1], clause 10.2.4.3 | 3 (container) | expirationTime | maxNrOfInstances | labels |
| TP/oneM2M/CSE/DMR/UPD/004_ACP/PVS/PV/LBL | Release 1 | PICS_ACP_LBL | ETSI TS 118 101 [1], clause 10.2.21.3 | 1 (accessControlPolicy) | selfPrivileges | privileges | labels |
| TP/oneM2M/CSE/DMR/UPD/004_ACP/PV/AT/LBL | Release 1 | PICS_ACP_AT and PICS_ACP_LBL | ETSI TS 118 101 [1], clause 10.2.21.3 | 1 (accessControlPolicy) | privileges | announceTo | labels |
| TP/oneM2M/CSE/DMR/UPD/004_SUB/ET/LBL/EXC | Release 1 | PICS_SUB_LBL and PICS_SUB_EXC | ETSI TS 118 101 [1], clause 10.2.11.4 | 23 (subscription) | expirationTime | labels | expirationCounter |
| TP/oneM2M/CSE/DMR/UPD/004_GRP/ET/GN/LBL | Release 1 | PICS_GRP_GN and PICS_GRP_LBL | ETSI TS 118 101 [1], clause 10.2.7.4 | 9 (group) | expirationTime | groupName | labels |
| TP/oneM2M/CSE/DMR/UPD/004_SCH/SE/AT/LBL | Release 2 | | ETSI TS 118 101 [1], clause 10.2.40.2 | 18 (scheduleElement) | scheduleElement | announceTo | labels |
| TP/oneM2M/CSE/DMR/UPD/004_TS/ET/MNI/LBL | Release 2 | | ETSI TS 118 101 [1], clause 10.2.13.4 | 15 (pollingChannel) | expirationTime | maxNrOfInstances | labels |

TP/oneM2M/CSE/DMR/UPD/005

| | | |
|---------------------------|--|------------------|
| TP Id | TP/oneM2M/CSE/DMR/UPD/005 | |
| Test objective | Check that the IUT responds with an error when the AE tries to update an attribute of a TARGET_RESOURCE_ADDRESS resource when the resource does not exist | |
| Reference | ETSI TS 118 101 [1], clause 10.1.3 | |
| Config Id | CF01 | |
| Parent Release | PARENT_RELEASE | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE and the IUT not having created a resource TARGET_RESOURCE_ADDRESS } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid UPDATE Request from AE containing To set to TARGET_RESOURCE_ADDRESS and From set to AE_ID and Content containing valid representation resource containing valid attribute } | IUT ← AE |
| | then { the IUT sends a valid Response containing Response Status Code set to 4004 (NOT_FOUND) } | IUT → AE |

TP/oneM2M/CSE/DMR/UPD/006

| | | |
|---------------------------|---|------------------|
| TP Id | TP/oneM2M/CSE/DMR/UPD/006 | |
| Test objective | Check that the IUT responds with an error when the AE tries to update the attribute <i>ATTRIBUTE_NAME</i> of a <i>TARGET_RESOURCE_ADDRESS</i> resource without having privileges for the UPDATE operation | |
| Reference | ETSI TS 118 101 [1], clause 10.1.3 | |
| Config Id | CF01 | |
| Parent Release | <i>PARENT_RELEASE</i> | |
| PICS Selection | PICS_CSE | |
| Initial conditions | <p>with { the IUT being in the "initial state" and the IUT having registered the AE and the IUT having created a resource <i>TARGET_RESOURCE_ADDRESS</i> of type <i>RESOURCE_TYPE</i> containing a RW <i>ATTRIBUTE_NAME</i> attribute set to <i>VALUE_1</i> and the AE having no privileges to perform UPDATE operation on the resource <i>TARGET_RESOURCE_ADDRESS</i> }</p> | |
| Expected behaviour | Test events | Direction |
| | <p>when { the IUT receives a valid UPDATE Request from AE containing To set to <i>TARGET_RESOURCE_ADDRESS</i> and From set to <i>AE_ID</i> and Content containing <i>RESOURCE_TYPE</i> resource containing <i>ATTRIBUTE_NAME</i> set to <i>VALUE_2</i> }</p> | IUT ← AE |
| | <p>then { the IUT does not update the <i>TARGET_RESOURCE_ADDRESS</i> resource and the IUT sends a valid Response containing Response Status Code set to 4103 (<i>ACCESS_DENIED</i>) }</p> | IUT → AE |

| TP Id | PARENT_RELEASE | Reference | RESOURCE_TYPE | ATTRIBUTE_NAME |
|-----------------------------------|----------------|---------------------------------------|-------------------------|----------------|
| TP/oneM2M/CSE/DMR/UPD/006_CNT/LBL | Release 1 | ETSI TS 118 101 [1], clause 10.2.4.3 | 3 (container) | labels |
| TP/oneM2M/CSE/DMR/UPD/006_ACP/LBL | Release 1 | ETSI TS 118 101 [1], clause 10.2.21.3 | 1 (accessControlPolicy) | labels |
| TP/oneM2M/CSE/DMR/UPD/006_SUB/LBL | Release 1 | ETSI TS 118 101 [1], clause 10.2.11.4 | 23 (subscription) | labels |
| TP/oneM2M/CSE/DMR/UPD/006_GRP/LBL | Release 1 | ETSI TS 118 101 [1], clause 10.2.7.4 | 9 (group) | labels |
| TP/oneM2M/CSE/DMR/UPD/006_SCH/LBL | Release 2 | ETSI TS 118 101 [1], clause 10.2.40.2 | 18 (schedule) | labels |
| TP/oneM2M/CSE/DMR/UPD/005_TS/LBL | Release 2 | ETSI TS 118 101 [1], clause 10.2.30.3 | 29 (timeSeries) | labels |

TP/oneM2M/CSE/DMR/UPD/007

| | | |
|---------------------------|---|------------------|
| TP Id | TP/oneM2M/CSE/DMR/UPD/007 | |
| Test objective | Check that the IUT responds with an error when the AE tries to update a non-RW attribute <i>ATTRIBUTE_NAME</i> of a <i>TARGET_RESOURCE_ADDRESS</i> resource | |
| Reference | ETSI TS 118 101 [1], clause 10.1.3 | |
| Config Id | CF01 | |
| Parent Release | <i>PARENT_RELEASE</i> | |
| PICS Selection | PICS_CSE | |
| Initial conditions | <p>with {</p> <p>the IUT being in the "initial state"</p> <p>and the IUT having registered the AE</p> <p>and the IUT having created a resource <i>TARGET_RESOURCE_ADDRESS</i> of type <i>RESOURCE_TYPE</i> containing</p> <p>a non-RW <i>ATTRIBUTE_NAME</i> attribute</p> <p>and the AE having privileges to perform UPDATE operation on the resource <i>TARGET_RESOURCE_ADDRESS</i></p> <p>}</p> | |
| Expected behaviour | Test events | Direction |
| | <p>when {</p> <p>the IUT receives a valid UPDATE Request from AE containing</p> <p>To set to <i>TARGET_RESOURCE_ADDRESS</i> and</p> <p>From set to <i>AE_ID</i> and</p> <p>Content containing</p> <p><i>RESOURCE_TYPE</i> resource containing</p> <p>valid <i>ATTRIBUTE_NAME</i> attribute</p> <p>}</p> | IUT ← AE |
| | <p>then {</p> <p>the IUT does not update the <i>TARGET_RESOURCE_ADDRESS</i> resource</p> <p>and the IUT sends a Response containing</p> <p>Response Status Code set to 4000 (<i>BAD_REQUEST</i>)</p> <p>}</p> | IUT → AE |

| TP Id | PARENT_RELEASE | Reference | RESOURCE_TYPE | ATTRIBUTE_NAME |
|----------------------------------|----------------|--|----------------------------|----------------|
| TP/oneM2M/CSE/DMR/UPD/007_CNT/CT | Release 1 | ETSI TS 118 101 [1], clause 10.2.4.3 | 3 (container) | creationTime |
| TP/oneM2M/CSE/DMR/UPD/007_ACP/CT | Release 1 | ETSI TS 118 101 [1], clause 10.2.21.3 | 1 (accessControlPolicy) | creationTime |
| TP/oneM2M/CSE/DMR/UPD/007_SUB/CT | Release 1 | ETSI TS 118 101 [1], clause 10.2.11.4 | 23 (subscription) | creationTime |
| TP/oneM2M/CSE/DMR/UPD/007_GRP/CT | Release 1 | ETSI TS 118 101 [1], clause 10.2.7.4 | 9 (group) | creationTime |
| TP/oneM2M/CSE/DMR/UPD/007_SCH/CT | Release 2 | ETSI TS 118 101 [1], clause 10.2.40.2 | 18 (schedule) | creationTime |
| TP/oneM2M/CSE/DMR/UPD/007_PCH/CT | Release 2 | ETSI TS 118 101 [1], clause 10.2.13.4 | 15 (pollingChannel) | creationTime |
| TP/oneM2M/CSE/DMR/UPD/007_TS/CT | Release 2 | ETSI TS 118 101 [1], clause 10.2.30.3 | 29 (timeSeries) | creationTime |

TP/oneM2M/CSE/DMR/UPD/008

| | | |
|---------------------------|--|------------------|
| TP Id | TP/oneM2M/CSE/DMR/UPD/008 | |
| Test objective | Check that the IUT responds with an error when the AE tries to delete a mandatory RW attribute <i>ATTRIBUTE_NAME</i> of a <i>TARGET_RESOURCE_ADDRESS</i> resource | |
| Reference | ETSI TS 118 101 [1], clause 10.1.3 | |
| Config Id | CF01 | |
| Parent Release | <i>PARENT_RELEASE</i> | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE and the IUT having created a resource <i>TARGET_RESOURCE_ADDRESS</i> of type <i>RESOURCE_TYPE</i> containing a mandatory RW <i>ATTRIBUTE_NAME</i> attribute and the AE having privileges to perform UPDATE operation on the resource <i>TARGET_RESOURCE_ADDRESS</i> } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid UPDATE Request from AE containing To set to <i>TARGET_RESOURCE_ADDRESS</i> and From set to AE_ID and Content containing <i>RESOURCE_TYPE</i> resource containing <i>ATTRIBUTE_NAME</i> attribute set to NULL } | IUT ← AE |
| | then { the IUT does not update the <i>TARGET_RESOURCE_ADDRESS</i> resource and the IUT sends a valid Response containing Response Status Code set to 4000 (BAD_REQUEST) } | IUT → AE |

| TP Id | PARENT_RELEASE | Reference | RESOURCE_TYPE | ATTRIBUTE_NAME |
|-----------------------------------|----------------|---------------------------------------|-------------------------|------------------|
| TP/oneM2M/CSE/DMR/UPD/008_ACP/PVS | Release 1 | ETSI TS 118 101 [1], clause 10.2.21.3 | 1 (accessControlPolicy) | selfPrivileges |
| TP/oneM2M/CSE/DMR/UPD/008_SUB/NU | Release 1 | ETSI TS 118 101 [1], clause 10.2.11.4 | 23 (subscription) | notificationURI |
| TP/oneM2M/CSE/DMR/UPD/008_GRP/MNI | Release 1 | ETSI TS 118 101 [1], clause 10.2.7.4 | 9 (group) | maxNrOfInstances |

TP/oneM2M/CSE/DMR/UPD/009

| | | |
|---------------------------|--|------------------|
| TP Id | TP/oneM2M/CSE/DMR/UPD/009 | |
| Test objective | Check that the IUT responds with an error when the AE tries to update a RW attribute <i>ATTRIBUTE_NAME</i> of the <i>TARGET_RESOURCE_ADDRESS</i> resource with an <i>UNACCEPTABLE_VALUE</i> | |
| Reference | ETSI TS 118 101 [1], clause 10.1.3 item 3) | |
| Config Id | CF01 | |
| Parent Release | <i>PARENT_RELEASE</i> | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE and the IUT having created a resource <i>TARGET_RESOURCE_ADDRESS</i> of type <i>RESOURCE_TYPE</i> containing a valid RW <i>ATTRIBUTE_NAME</i> attribute and the AE having privileges to perform UPDATE operation on the resource <i>TARGET_RESOURCE_ADDRESS</i> } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid UPDATE Request from AE containing To set to <i>TARGET_RESOURCE_ADDRESS</i> and From set to <i>AE_ID</i> and Content containing <i>RESOURCE_TYPE</i> resource containing not supported <i>ATTRIBUTE_NAME</i> attribute } | IUT ← AE |
| | then { the IUT does not update the <i>TARGET_RESOURCE_ADDRESS</i> resource and the IUT sends a Response containing Response Status Code set to 4000 (<i>BAD_REQUEST</i>) } | IUT → AE |

| TP Id | PARENT_RELEASE | Reference | RESOURCE_TYPE | ATTRIBUTE_NAME |
|-----------------------------------|----------------|--|----------------------------|-------------------|
| TP/oneM2M/CSE/DMR/UPD/009_CNT/EXC | Release 1 | ETSI TS 118 101 [1], clause 10.2.4.3 | 3 (container) | expirationCounter |
| TP/oneM2M/CSE/DMR/UPD/009_ACP/EXC | Release 1 | ETSI TS 118 101 [1], clause 10.2.21.3 | 1 (accessControlPolicy) | expirationCounter |
| TP/oneM2M/CSE/DMR/UPD/009_SUB/MNI | Release 1 | ETSI TS 118 101 [1], clause 10.2.11.4 | 23 (subscription) | maxNrOfInstances |
| TP/oneM2M/CSE/DMR/UPD/009_GRP/EXC | Release 1 | ETSI TS 118 101 [1], clause 10.2.7.4 | 9 (group) | expirationCounter |
| TP/oneM2M/CSE/DMR/UPD/009_SCH/EXC | Release 2 | ETSI TS 118 101 [1], clause 10.2.40.2 | 18 (schedule) | expirationCounter |
| TP/oneM2M/CSE/DMR/UPD/009_PCH/EXC | Release 2 | ETSI TS 118 101 [1], clause 10.2.13.4 | 15 (pollingChannel) | expirationCounter |
| TP/oneM2M/CSE/DMR/UPD/009_TS/EXC | Release 2 | ETSI TS 118 101 [1], clause 10.2.30.3 | 29 (timeSeries) | expirationCounter |

TP/oneM2M/CSE/DMR/UPD/010

| | | |
|---------------------------|--|------------------|
| TP Id | TP/oneM2M/CSE/DMR/UPD/010 | |
| Test objective | Check that the stateTag attribute of a <i>RESOURCE_TYPE</i> resource is increased when an update operation has been performed on its child resource | |
| Reference | ETSI TS 118 101 [1], clause 10.1.3 | |
| Config Id | CF01 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE and the IUT having created a <i>RESOURCE_TYPE</i> resource containing CHILD_RESOURCE_TYPE resource containing ATTRIBUTE_NAME attribute set to VALUE_1 and the AE having privileges to perform UPDATE operation on the TARGET_CHILD_RESOURCE_ADDRESS } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid UPDATE Request from AE containing To set to TARGET_CHILD_RESOURCE_ADDRESS and From set to AE_ID Content containing CHILD_RESOURCE_TYPE resource containing ATTRIBUTE_NAME attribute set to VALUE_2 } | IUT ← AE |
| | then { the IUT increments the stateTag attribute of <i>RESOURCE_TYPE</i> resource and the IUT sends a valid Response containing Response Status Code set to 2004 (UPDATED) } | IUT → AE |

| TP Id | PARENT_RELEASE | Reference | RESOURCE_TYPE |
|-------------------------------|----------------|--------------------------------------|---------------|
| TP/oneM2M/CSE/DMR/UPD/010_CNT | Release 1 | ETSI TS 118 101 [1], clause 10.2.4.3 | 3 (container) |

TP/oneM2M/CSE/DMR/UPD/011

| | | |
|---------------------------|--|---------------------------|
| TP Id | TP/oneM2M/CSE/DMR/UPD/011 | |
| Test objective | Check that the IUT rejects the UPDATE Request of an existing <i>RESOURCE_TYPE</i> resource with error "OPERATION_NOT_ALLOWED" | |
| Reference | ETSI TS 118 101 [1], clause 10.2.19.4, ETSI TS 118 104 [2], clause 7.3.2.1 and clause 7.4.8.2.3 | |
| Config Id | CF01 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE containing a <i>PARENT_RESOURCE_TYPE</i> resource containing a <i>RESOURCE_TYPE</i> resource TARGET_RESOURCE_ADDRESS } | |
| Expected behaviour | Test events | Expected behaviour |
| | when { the IUT receives a valid UPDATE Request from AE containing To set to TARGET_RESOURCE_ADDRESS and From set to AE_ID and Content containing <i>RESOURCE_TYPE</i> representation } | |
| | then { the IUT does not update the <i>RESOURCE_TYPE</i> resource and the IUT sends a valid Response containing Response Status Code set to 4005 (OPERATION_NOT_ALLOWED) } | |

| TP Id | PARENT_RELEASE | Reference | RESOURCE_TYPE | PARENT_RESOURCE_TYPE |
|-----------------------------------|----------------|---------------------------------------|-------------------------|----------------------|
| TP/oneM2M/CSE/DMR/UPD/011_CNT/CIN | Release 1 | ETSI TS 118 101 [1], clause 10.2.4.3 | 4 (contentInstance) | 3 (container) |
| TP/oneM2M/CSE/DMR/UPD/011_TS/TS | Release 2 | ETSI TS 118 101 [1], clause 10.2.31.3 | 30 (timeSeriesInstance) | 29 (timeSeries) |

TP/oneM2M/CSE/DMR/UPD/012

| | | |
|---------------------------|---|------------------|
| TP Id | TP/oneM2M/CSE/DMR/UPD/012 | |
| Test objective | Check that the IUT rejects the UPDATE Request of a latest resource as a direct child of a <container> resource with error "OPERATION_NOT_ALLOWED" | |
| Reference | ETSI TS 118 101 [1], clause 10.2.22, ETSI TS 118 104 [2], clause 7.4.28.2.4 and clause 7.3.2.1 | |
| Config Id | CF01 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE containing a container resource containing a contentInstance resource containing valid creationTime attribute set to the most recent resource creation time } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives an UPDATE Request from AE containing To set to CONTAINER_RESOURCE_ADDRESS/la and From set to AE_ID and no Content } | IUT ← AE |
| | then { the IUT does not update the CONTAINER_RESOURCE_ADDRESS/la resource and the IUT sends a valid Response containing Response Status Code set to 4005 (OPERATION_NOT_ALLOWED) } | IUT → AE |

TP/oneM2M/CSE/DMR/UPD/013

| | | |
|---------------------------|--|------------------|
| TP Id | TP/oneM2M/CSE/DMR/UPD/013 | |
| Test objective | Check that the IUT rejects the UPDATE Request of an oldest resource as a direct child of a <container> resource with error "OPERATION_NOT_ALLOWED" | |
| Reference | ETSI TS 118 101 [1], clause 10.2.23, ETSI TS 118 104 [2], clause 7.4.29.2.4 and clause 7.3.2.1 | |
| Config Id | CF01 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE containing a container resource containing contentInstance resource(s) } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid UPDATE Request from AE containing To set to CONTAINER_RESOURCE_ADDRESS/ol and From set to AE_ID and no Content } | IUT ← AE |
| | then { the IUT does not update the CONTAINER_RESOURCE_ADDRESS/ol resource and the IUT sends a Response containing Response Status Code set to 4005 (OPERATION_NOT_ALLOWED) } | IUT → AE |

TP/oneM2M/CSE/DMR/UPD/014

| | | |
|---------------------------|---|------------------|
| TP Id | TP/oneM2M/CSE/DMR/UPD/014 | |
| Test objective | Check that the IUT updates successfully the value of the optional attribute <i>OPTIONAL_ATTRIBUTE</i> of the <i>RESOURCE_TYPE</i> resource. | |
| Reference | ETSI TS 118 101 [1], clause 10.1.3 | |
| Config Id | CF01 | |
| Parent Release | <i>PARENT_RELEASE</i> | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE and the IUT having created the <i>RESOURCE_TYPE</i> resource and the AE having privileges to perform UPDATE operation on the resource <i>TARGET_RESOURCE_ADDRESS</i> } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid UPDATE Request from AE containing To set to <i>TARGET_RESOURCE_ADDRESS</i> and From set to AE-ID and Content containing <i>RESOURCE_TYPE</i> resource containing <i>OPTIONAL_ATTRIBUTE</i> attribute set to VALUE } | IUT ← AE |
| | then { the IUT sends a valid Response containing Response Status Code set to 2004 (UPDATED) and Content containing <i>RESOURCE_TYPE</i> resource containing <i>OPTIONAL_ATTRIBUTE</i> attribute set to VALUE } | IUT → AE |

| TP Id | PARENT_RELEASE | PICS Selection | Reference | RESOURCE_TYPE | OPTIONAL_ATTRIBUTE |
|------------------------------------|----------------|----------------|--|---------------------|-----------------------------|
| TP/oneM2M/CSE/DMR/UPD/014_CNT/ACPI | Release 1 | PICS_CNT_ACPI | ETSI TS 118 101 [1], table 9.6.1.3.2-1 | container | accessControlPolicyIDs |
| TP/oneM2M/CSE/DMR/UPD/014_CNT/ET | Release 1 | PICS_CNT_ET | ETSI TS 118 101 [1], table 9.6.1.3.1-1 | container | expirationTime |
| TP/oneM2M/CSE/DMR/UPD/014_CNT/LBL | Release 1 | PICS_CNT_LBL | ETSI TS 118 101 [1], table 9.6.1.3.2-1 | container | labels |
| TP/oneM2M/CSE/DMR/UPD/014_CNT/MNI | Release 1 | PICS_CNT_MNI | ETSI TS 118 101 [1], table 9.6.6-2 | container | maxNumberOfInstances |
| TP/oneM2M/CSE/DMR/UPD/014_CNT/MBS | Release 1 | PICS_CNT_MBS | ETSI TS 118 101 [1], table 9.6.6-2 | container | maxByteSize |
| TP/oneM2M/CSE/DMR/UPD/014_CNT/MIA | Release 1 | PICS_CNT_MIA | ETSI TS 118 101 [1], table 9.6.6-2 | container | maxInstanceAge |
| TP/oneM2M/CSE/DMR/UPD/014_CNT/OR | Release 1 | PICS_CNT_OR | ETSI TS 118 101 [1], table 9.6.6-2 | container | ontologyRef |
| TP/oneM2M/CSE/DMR/UPD/014_ACP/ET | Release 1 | N/A | ETSI TS 118 101 [1], table 9.6.1.3.1-1 | accessControlPolicy | expirationTime |
| TP/oneM2M/CSE/DMR/UPD/014_ACP/LBL | Release 1 | PICS_ACP_LBL | ETSI TS 118 101 [1], table 9.6.1.3.2-1 | accessControlPolicy | labels |
| TP/oneM2M/CSE/DMR/UPD/014_SUB/ACPI | Release 1 | PICS_SUB_ACPI | ETSI TS 118 101 [1], table 9.6.1.3.2-1 | subscription | accessControlPolicyIDs |
| TP/oneM2M/CSE/DMR/UPD/014_SUB/ET | Release 1 | N/A | ETSI TS 118 101 [1], table 9.6.1.3.1-1 | subscription | expirationTime |
| TP/oneM2M/CSE/DMR/UPD/014_SUB/LBL | Release 1 | PICS_SUB_LBL | ETSI TS 118 101 [1], table 9.6.1.3.2-1 | subscription | labels |
| TP/oneM2M/CSE/DMR/UPD/014_SUB/ENC | Release 1 | PICS_SUB_ENC | ETSI TS 118 101 [1], table 9.6.8-2 | subscription | eventNotificationCriteria |
| TP/oneM2M/CSE/DMR/UPD/014_SUB/EXC | Release 1 | PICS_SUB_EXC | ETSI TS 118 101 [1], table 9.6.8-2 | subscription | expirationCounter |
| TP/oneM2M/CSE/DMR/UPD/014_SUB/GPI | Release 1 | PICS_SUB_GPI | ETSI TS 118 101 [1], table 9.6.8-2 | subscription | groupId |
| TP/oneM2M/CSE/DMR/UPD/014_SUB/NFU | Release 1 | PICS_SUB_NFU | ETSI TS 118 101 [1], table 9.6.8-2 | subscription | notificationForwardingURI |
| TP/oneM2M/CSE/DMR/UPD/014_SUB/BN | Release 1 | PICS_SUB_BN | ETSI TS 118 101 [1], table 9.6.8-2 | subscription | batchNotify |
| TP/oneM2M/CSE/DMR/UPD/014_SUB/RL | Release 1 | PICS_SUB_RL | ETSI TS 118 101 [1], table 9.6.8-2 | subscription | rateLimit |
| TP/oneM2M/CSE/DMR/UPD/014_SUB/PN | Release 1 | PICS_SUB_PN | ETSI TS 118 101 [1], table 9.6.8-2 | subscription | pendingNotification |
| TP/oneM2M/CSE/DMR/UPD/014_SUB/NSP | Release 1 | PICS_SUB_NSP | ETSI TS 118 101 [1], table 9.6.8-2 | subscription | notificationStoragePriority |
| TP/oneM2M/CSE/DMR/UPD/014_SUB/LN | Release 1 | PICS_SUB_LN | ETSI TS 118 101 [1], table 9.6.8-2 | subscription | latestNotify |
| TP/oneM2M/CSE/DMR/UPD/014_SUB/NCT | Release 1 | PICS_SUB_NCT | ETSI TS 118 101 [1], table 9.6.8-2 | subscription | notificationContentType |

| | | | | | |
|-------------------------------------|-----------|--------------|--|--------------|------------------------|
| TP/oneM2M/CSE/DMR/UPD/014_SUB/NEC | Release 1 | PICS_SUB_NEC | ETSI TS 118 101 [1], table 9.6.8-2 | subscription | notificationEventCat |
| TP/oneM2M/CSE/DMR/UPD/014_STCG/LBL | Release 2 | | ETSI TS 118 101 [1], table 9.6.23-2 | statsConfig | labels |
| TP/oneM2M/CSE/DMR/UPD/014_STCG/ACPI | Release 2 | | ETSI TS 118 101 [1], table 9.6.23-2 | statsConfig | accessControlPolicyIDs |
| TP/oneM2M/CSE/DMR/UPD/014_TS/ACPI | Release 2 | | ETSI TS 118 101 [1], table 9.6.36-2 | timeSeries | accessControlPolicyIDs |
| TP/oneM2M/CSE/DMR/UPD/014_TS/LBL | Release 2 | | ETSI TS 118 101 [1], table 9.6.36-2 | timeSeries | labels |
| TP/oneM2M/CSE/DMR/UPD/014_TS/MNI | Release 2 | | ETSI TS 118 101 [1], table 9.6.36-2 | timeSeries | maximumNrOfInstances |
| TP/oneM2M/CSE/DMR/UPD/014_TS/MBS | Release 2 | | ETSI TS 118 101 [1], table 9.6.36-2 | timeSeries | maxByteSize |
| TP/oneM2M/CSE/DMR/UPD/014_TS/MIA | Release 2 | | ETSI TS 118 101 [1], table 9.6.36-2 | timeSeries | maxInstanceAge |
| TP/oneM2M/CSE/DMR/UPD/014_TS/PEI | Release 2 | | ETSI TS 118 101 [1], table 9.6.36-2 | timeSeries | periodicInterval |
| TP/oneM2M/CSE/DMR/UPD/014_TS/MDD | Release 2 | | ETSI TS 118 101 [1], table 9.6.36-2 | timeSeries | missingDataDetect |
| TP/oneM2M/CSE/DMR/UPD/014_TS/MDN | Release 2 | | ETSI TS 118 101 [1], table 9.6.36-2 | timeSeries | missingDataMaxNr |
| TP/oneM2M/CSE/DMR/UPD/014_TS/MDT | Release 2 | | ETSI TS 118 101 [1], table 9.6.36-2 | timeSeries | missingDataDetectTimer |
| TP/oneM2M/CSE/DMR/UPD/014_TS/OR | Release 2 | | ETSI TS 118 101 [1], table 9.6.36-2 | timeSeries | ontologyRef |

| TP Id | PARENT_RELEASE | PICS Selection | Reference | RESOURCE_TYPE | OPTIONAL_ATTRIBUTE |
|------------------------------------|----------------|----------------|------------------------------------|---------------------|---------------------------|
| TP/oneM2M/CSE/DMR/UPD/015_AE/ACPI | Release 1 | PICS_AE_ACPI | ETSI TS 118 101 [1], table 9.6.5-2 | AE | accessControlPolicyIDs |
| TP/oneM2M/CSE/DMR/UPD/015_AE/APN | Release 1 | PICS_AE_APN | ETSI TS 118 101 [1], table 9.6.5-2 | AE | AppName |
| TP/oneM2M/CSE/DMR/UPD/015_AE/POA | Release 1 | PICS_AE_POA | ETSI TS 118 101 [1], table 9.6.5-2 | AE | pointOfAccess |
| TP/oneM2M/CSE/DMR/UPD/015_AE/OR | Release 1 | PICS_AE_OR | ETSI TS 118 101 [1], table 9.6.5-2 | AE | ontologyRef |
| TP/oneM2M/CSE/DMR/UPD/015_CNT/LBL | Release 1 | PICS_CNT_LBL | ETSI TS 118 101 [1], table 9.6.6-2 | container | labels |
| TP/oneM2M/CSE/DMR/UPD/015_CNT/ACPI | Release 1 | PICS_CNT_ACPI | ETSI TS 118 101 [1], table 9.6.6-2 | container | accessControlPolicyIDs |
| TP/oneM2M/CSE/DMR/UPD/015_CNT/MNI | Release 1 | PICS_CNT_MNI | ETSI TS 118 101 [1], table 9.6.6-2 | container | maxNrOfInstances |
| TP/oneM2M/CSE/DMR/UPD/015_CNT/MBS | Release 1 | PICS_CNT_MBS | ETSI TS 118 101 [1], table 9.6.6-2 | container | maxByteSize |
| TP/oneM2M/CSE/DMR/UPD/015_CNT/MIA | Release 1 | PICS_CNT_MIA | ETSI TS 118 101 [1], table 9.6.6-2 | container | maxInstanceAge |
| TP/oneM2M/CSE/DMR/UPD/015_CNT/OR | Release 1 | PICS_CNT_OR | ETSI TS 118 101 [1], table 9.6.6-2 | container | ontologyRef |
| TP/oneM2M/CSE/DMR/UPD/015_CNT/LI | Release 1 | PICS_CNT_LI | ETSI TS 118 101 [1], table 9.6.6-2 | container | locationID |
| TP/oneM2M/CSE/DMR/UPD/015_ACP/LBL | Release 1 | PICS_ACP_LBL | ETSI TS 118 101 [1], table 9.6.2-2 | accessControlPolicy | labels |
| TP/oneM2M/CSE/DMR/UPD/015_SUB/ACPI | Release 1 | PICS_SUB_ACPI | ETSI TS 118 101 [1], table 9.6.8-2 | subscription | accessControlPolicyIDs |
| TP/oneM2M/CSE/DMR/UPD/015_SUB/LBL | Release 1 | PICS_SUB_LBL | ETSI TS 118 101 [1], table 9.6.8-2 | subscription | labels |
| TP/oneM2M/CSE/DMR/UPD/015_SUB/ENC | Release 1 | PICS_SUB_ENC | ETSI TS 118 101 [1], table 9.6.8-2 | subscription | eventNotificationCriteria |
| TP/oneM2M/CSE/DMR/UPD/015_SUB/EXC | Release 1 | PICS_SUB_EXC | ETSI TS 118 101 [1], table 9.6.8-2 | subscription | expirationCounter |
| TP/oneM2M/CSE/DMR/UPD/015_SUB/GPI | Release 1 | PICS_SUB_GPI | ETSI TS 118 101 [1], table 9.6.8-2 | subscription | groupID |
| TP/oneM2M/CSE/DMR/UPD/015_SUB/NFU | Release 1 | PICS_SUB_NFU | ETSI TS 118 101 [1], table 9.6.8-2 | subscription | notificationForwardingURL |
| TP/oneM2M/CSE/DMR/UPD/015_SUB/BN | Release 1 | PICS_SUB_BN | ETSI TS 118 101 [1], table 9.6.8-2 | subscription | batchNotify |
| TP/oneM2M/CSE/DMR/UPD/015_SUB/RL | Release 1 | PICS_SUB_RL | ETSI TS 118 101 [1], table 9.6.8-2 | subscription | rateLimit |

| TP Id | PARENT_RELEASE | PICS Selection | Reference | RESOURCE_TYPE | OPTIONAL_ATTRIBUTE |
|------------------------------------|----------------|----------------|-------------------------------------|---------------|-------------------------------|
| TP/oneM2M/CSE/DMR/UPD/015_SUB/PN | Release 1 | PICS_SUB_PN | ETSI TS 118 101 [1], table 9.6.8-2 | subscription | pendingNotification |
| TP/oneM2M/CSE/DMR/UPD/015_SUB/NSP | Release 1 | PICS_SUB_NSP | ETSI TS 118 101 [1], table 9.6.8-2 | subscription | notificationStoragePriority |
| TP/oneM2M/CSE/DMR/UPD/015_SUB/LN | Release 1 | PICS_SUB_LN | ETSI TS 118 101 [1], table 9.6.8-2 | subscription | latestNotify |
| TP/oneM2M/CSE/DMR/UPD/015_SUB/NEC | Release 1 | PICS_SUB_NEC | ETSI TS 118 101 [1], table 9.6.8-2 | subscription | notificationEventCat |
| TP/oneM2M/CSE/DMR/UPD/015_GRP/LBL | Release 1 | PICS_GRP_LBL | ETSI TS 118 101 [1], table 9.6.13-2 | group | labels |
| TP/oneM2M/CSE/DMR/UPD/015_GRP/ACPI | Release 1 | PICS_GRP_ACPI | ETSI TS 118 101 [1], table 9.6.13-2 | group | accessControlPolicyIDs |
| TP/oneM2M/CSE/DMR/UPD/015_GRP/MACP | Release 1 | PICS_GRP_MACP | ETSI TS 118 101 [1], table 9.6.13-2 | group | membersAccessControlPolicyIDs |
| TP/oneM2M/CSE/DMR/UPD/015_GRP/GN | Release 1 | PICS_GRP_GN | ETSI TS 118 101 [1], table 9.6.13-2 | group | groupName |
| TP/oneM2M/CSE/DMR/UPD/015_NOD/LBL | Release 2 | | ETSI TS 118 101 [1], table 9.6.18-2 | node | labels |
| TP/oneM2M/CSE/DMR/UPD/015_NOD/ACPI | Release 2 | | ETSI TS 118 101 [1], table 9.6.18-2 | node | accessControlPolicyIDs |
| TP/oneM2M/CSE/DMR/UPD/015_NOD/HCL | Release 2 | | ETSI TS 118 101 [1], table 9.6.18-2 | node | hostedCSELink |
| TP/oneM2M/CSE/DMR/UPD/015_TS/ACPI | Release 2 | | ETSI TS 118 101 [1], table 9.6.36-2 | timeSeries | accessControlPolicyIDs |
| TP/oneM2M/CSE/DMR/UPD/015_TS/LBL | Release 2 | | ETSI TS 118 101 [1], table 9.6.36-2 | timeSeries | labels |
| TP/oneM2M/CSE/DMR/UPD/015_TS/MNI | Release 2 | | ETSI TS 118 101 [1], table 9.6.36-2 | timeSeries | maximumNrOfInstances |
| TP/oneM2M/CSE/DMR/UPD/015_TS/MBS | Release 2 | | ETSI TS 118 101 [1], table 9.6.36-2 | timeSeries | maxByteSize |
| TP/oneM2M/CSE/DMR/UPD/015_TS/MIA | Release 2 | | ETSI TS 118 101 [1], table 9.6.36-2 | timeSeries | maxInstanceAge |
| TP/oneM2M/CSE/DMR/UPD/015_TS/PEI | Release 2 | | ETSI TS 118 101 [1], table 9.6.36-2 | timeSeries | periodicInterval |
| TP/oneM2M/CSE/DMR/UPD/015_TS/MDD | Release 2 | | ETSI TS 118 101 [1], table 9.6.36-2 | timeSeries | missingDataDetect |
| TP/oneM2M/CSE/DMR/UPD/015_TS/MDN | Release 2 | | ETSI TS 118 101 [1], table 9.6.36-2 | timeSeries | missingDataMaxNr |
| TP/oneM2M/CSE/DMR/UPD/015_TS/MDT | Release 2 | | ETSI TS 118 101 [1], table 9.6.36-2 | timeSeries | missingDataDetectTimer |
| TP/oneM2M/CSE/DMR/UPD/015_TS/OR | Release 2 | | ETSI TS 118 101 [1], table 9.6.36-2 | timeSeries | ontologyRef |

TP/oneM2M/CSE/DMR/UPD/016

| | | |
|---------------------------|---|------------------|
| TP Id | TP/oneM2M/CSE/DMR/UPD/016 | |
| Test objective | Check that the IUT updates successfully the value of the attribute <i>MANDATORY_ATTRIBUTE</i> of the <i>RESOURCE_TYPE</i> resource under CSEBase | |
| Reference | ETSI TS 118 101 [1], clause 10.1.3 | |
| Config Id | CF01 | |
| Parent Release | <i>PARENT_RELEASE</i> | |
| PICS Selection | PICS_CSE | |
| Initial conditions | <p>with { the IUT being in the "initial state" and the IUT having registered the AE and the IUT having created a resource <i>TARGET_RESOURCE_ADDRESS</i> of type <i>RESOURCE_TYPE</i> under the CSEBase resource and the AE having privileges to perform UPDATE operation on the resource <i>TARGET_RESOURCE_ADDRESS</i> }</p> | |
| Expected behaviour | Test events | Direction |
| | <p>when { the IUT receives a valid UPDATE Request from AE containing To set to <i>TARGET_RESOURCE_ADDRESS</i> and From set to AE-ID and Content containing <i>RESOURCE_TYPE</i> resource containing <i>MANDATORY_ATTRIBUTE</i> attribute set to VALUE }</p> | IUT ← AE |
| | <p>then { the IUT updates the <i>RESOURCE_TYPE</i> resource and the IUT sends a valid Response containing Response Status Code set to 2004 (UPDATED) and Content containing <i>RESOURCE_TYPE</i> resource containing <i>MANDATORY_ATTRIBUTE</i> attribute set to VALUE }</p> | IUT → AE |

| TP Id | PARENT_RELEASE | Reference | RESOURCE_TYPE | MANDATORY_ATTRIBUTE |
|----------------------------------|----------------|------------------------------------|---------------|---------------------|
| TP/oneM2M/CSE/DMR/UPD/016_CSR/ET | Release 1 | ETSI TS 118 101 [1], table 9.6.4-2 | remoteCSE | expirationTime |
| TP/oneM2M/CSE/DMR/UPD/016_CSR/RR | Release 1 | ETSI TS 118 101 [1], table 9.6.4-2 | remoteCSE | requestReachability |
| TP/oneM2M/CSE/DMR/UPD/016_AE/ET | Release 1 | ETSI TS 118 101 [1], table 9.6.5-2 | AE | expirationTime |
| TP/oneM2M/CSE/DMR/UPD/016_AE/RR | Release 1 | ETSI TS 118 101 [1], table 9.6.5-2 | AE | requestReachability |

| TP Id | PARENT_RELEASE | Reference | RESOURCE_TYPE | MANDATORY_ATTRIBUTE |
|------------------------------------|----------------|-------------------------------------|---------------------|-------------------------|
| TP/oneM2M/CSE/DMR/UPD/016_CNT/ET | Release 1 | ETSI TS 118 101 [1], table 9.6.6-2 | container | expirationTime |
| TP/oneM2M/CSE/DMR/UPD/016_ACP/ET | Release 1 | ETSI TS 118 101 [1], table 9.6.2-2 | accessControlPolicy | expirationTime |
| TP/oneM2M/CSE/DMR/UPD/016_ACP/PV | Release 1 | ETSI TS 118 101 [1], table 9.6.2-2 | accessControlPolicy | privileges |
| TP/oneM2M/CSE/DMR/UPD/016_ACP/PVS | Release 1 | ETSI TS 118 101 [1], table 9.6.2-2 | accessControlPolicy | selfPrivileges |
| TP/oneM2M/CSE/DMR/UPD/016_SUB/ET | Release 1 | ETSI TS 118 101 [1], table 9.6.8-2 | subscription | expirationTime |
| TP/oneM2M/CSE/DMR/UPD/016_SUB/NU | Release 1 | ETSI TS 118 101 [1], table 9.6.8-2 | subscription | notificationURI |
| TP/oneM2M/CSE/DMR/UPD/016_SUB/NC T | Release 1 | ETSI TS 118 101 [1], table 9.6.8-2 | subscription | notificationContentType |
| TP/oneM2M/CSE/DMR/UPD/016_GRP/ET | Release 1 | ETSI TS 118 101 [1], table 9.6.13-2 | group | expirationTime |
| TP/oneM2M/CSE/DMR/UPD/016_GRP/MNM | Release 1 | ETSI TS 118 101 [1], table 9.6.13-2 | group | maxNrOfMembers |
| TP/oneM2M/CSE/DMR/UPD/016_GRP/MID | Release 1 | ETSI TS 118 101 [1], table 9.6.13-2 | group | memberIDs |
| TP/oneM2M/CSE/DMR/UPD/016_NOD/ET | Release 2 | ETSI TS 118 101 [1], table 9.6.18-2 | node | expirationTime |
| TP/oneM2M/CSE/DMR/UPD/016_NOD/NI | Release 2 | ETSI TS 118 101 [1], table 9.6.18-2 | node | nodeID |
| TP/oneM2M/CSE/DMR/UPD/016_TS/ET | Release 2 | ETSI TS 118 101 [1], table 9.6.36-2 | timeSeries | expirationTime |

TP/oneM2M/CSE/DMR/UPD/017

| | | |
|---------------------------|--|------------------|
| TP Id | TP/oneM2M/CSE/DMR/UPD/017 | |
| Test objective | Check that the IUT updates successfully the value of the announceTo optional attribute of the <i>RESOURCE_TYPE</i> resource. | |
| Reference | ETSI TS 118 101 [1], clause 10.2.18.4 and table 9.6.1.3.2-1, ETSI TS 118 104 [2], clause 7.3.3.10 | |
| Config Id | CF02 | |
| Parent Release | Release 2 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | <p>with { the IUT being in the "initial state" and the IUT having registered the AE and the IUT having created the PARENT_RESOURCE resource containing <i>RESOURCE_TYPE</i> resource containing announceTo attribute set to NULL and the IUT having announced the PARENT_RESOURCE resource and the AE having privileges to perform UPDATE operation on the resource TARGET_RESOURCE_ADDRESS }</p> | |
| Expected behaviour | Test events | Direction |
| | <p>when { the IUT receives a valid UPDATE Request from AE containing To set to TARGET_RESOURCE_ADDRESS and From set to AE-ID and Content containing <i>RESOURCE_TYPE</i> resource containing announceTo attribute set to ANNC_TARGET_CSE_ADDRESS }</p> | IUT ← AE |
| | <p>then { the IUT sends a valid CREATE Request containing To set ANNC_TARGET_CSE_ADDRESS and Content containing <i>RESOURCE_TYPE</i> announced variant resource containing MA (mandatory) attributes }</p> | IUT → CSE |

| TP Id | RESOURCE_TYPE |
|-------------------------------|---------------------|
| TP/oneM2M/CSE/DMR/UPD/017_ACP | accessControlPolicy |
| TP/oneM2M/CSE/DMR/UPD/017_CNT | container |
| TP/oneM2M/CSE/DMR/UPD/017_GRP | group |
| TP/oneM2M/CSE/DMR/UPD/017_LCP | locationPolicy |
| TP/oneM2M/CSE/DMR/UPD/017_MGO | mgmtObj |
| TP/oneM2M/CSE/DMR/UPD/017_NOD | node |
| TP/oneM2M/CSE/DMR/UPD/017_SCH | schedule |
| TP/oneM2M/CSE/DMR/UPD/017_TS | timeSeries |
| TP/oneM2M/CSE/DMR/UPD/017_TSI | timeSeriesInstance |

TP/oneM2M/CSE/DMR/UPD/018

| | | |
|---------------------------|--|------------------|
| TP Id | TP/oneM2M/CSE/DMR/UPD/018 | |
| Test objective | Check that the IUT updates successfully the value of the announcedAttribute optional attribute of the <i>RESOURCE_TYPE</i> resource. | |
| Reference | ETSI TS 118 101 [1], clause 10.2.18.8 and table 9.6.1.3.2-1, ETSI TS 118 104 [2], clause 7.3.3.10 | |
| Parent Release | Release 2 | |
| Config Id | CF02 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | <p>with { the IUT being in the "initial state" and the IUT having registered the AE and the IUT having created a <i>RESOURCE_TYPE</i> resource containing <i>OA_ATTRIBUTE</i> attribute set to VALUE and announceTo attribute set to ANNC_TARGET_CSE_ADDRESS and announcedAttribute attribute set to NULL and the IUT having announced the <i>RESOURCE_TYPE</i> resource to the announcement target CSE and the AE having privileges to perform UPDATE operation on the resource TARGET_RESOURCE_ADDRESS }</p> | |
| Expected behaviour | Test events | Direction |
| | <p>when { the IUT receives a valid UPDATE Request from AE containing To set to TARGET_RESOURCE_ADDRESS and From set to AE-ID and Content containing <i>RESOURCE_TYPE</i> resource containing announcedAttribute attribute set to <i>OA_ATTRIBUTE</i> }</p> | IUT ← AE |
| | <p>then { The IUT sends a valid UPDATE Request containing To set to ANNC_TARGET_CSE_ADDRESS and Content containing <i>RESOURCE_TYPE</i> announced variant resource containing <i>OA_ATTRIBUTE</i> attribute set to VALUE }</p> | IUT → CSE |

| TP Id | RESOURCE_TYPE | OA_ATTRIBUTE |
|-----------------------------------|----------------|---------------------|
| TP/oneM2M/CSE/DMR/UPD/018_CNT/MBS | container | maxByteSize |
| TP/oneM2M/CSE/DMR/UPD/018_GRP/MT | Group | memberType |
| TP/oneM2M/CSE/DMR/UPD/018_LCP/LOI | locationPolicy | locationContainerID |
| TP/oneM2M/CSE/DMR/UPD/018_MGO/DC | mgmtObj | description |
| TP/oneM2M/CSE/DMR/UPD/018_NOD/HCL | Node | hostedCSELink |
| TP/oneM2M/CSE/DMR/UPD/018_SCH/SE | schedule | scheduleElement |

TP/oneM2M/CSE/DMR/UPD/020

| | | |
|---------------------------|--|---------------------------------|
| TP Id | TP/oneM2M/CSE/DMR/UPD/020 | |
| Test objective | Check that the IUT returns nothing of TARGET_RESOURCE_ADDRESS resource when the Result Content is set to 0 (nothing) | |
| Reference | ETSI TS 118 101 [1], clause 8.1.2, ETSI TS 118 104 [2], clause 6.3.3.2.7 | |
| Config Id | CF01 | |
| Parent Release | PARENT_RELEASE | |
| PICS Selection | PICS_CSE | |
| Initial conditions | <p>with {</p> <p>the IUT being in the "initial state"</p> <p>and the IUT having registered the AE</p> <p>and the IUT having created a resource TARGET_RESOURCE_ADDRESS of type RESOURCE_TYPE containing</p> <p>a child resource</p> <p>and the AE having privileges to perform UPDATE operation on the resource TARGET_RESOURCE_ADDRESS</p> <p>}</p> | |
| Expected behaviour | Test events | Direction |
| | <p>when {</p> <p>the IUT receives a valid UPDATE Request from AE containing</p> <p>To set to TARGET_RESOURCE_ADDRESS and</p> <p>From set to AE_ID and</p> <p>Result Content set to 0 (nothing)</p> <p>Content and</p> <p>RESOURCE_TYPE resource containing</p> <p>valid attribute</p> <p>}</p> <p>then {</p> <p>the IUT sends a valid Response containing</p> <p>Response Status Code set to 2004 (UPDATED) and</p> <p>no Content</p> <p>}</p> | <p>IUT ← AE</p> <p>IUT → AE</p> |

| TP Id | PARENT_RELEASE | RESOURCE_TYPE |
|-------------------------------|----------------|-------------------------|
| TP/oneM2M/CSE/DMR/UPD/020_CNT | Release 2 | 3 (container) |
| TP/oneM2M/CSE/DMR/UPD/020_GRP | Release 2 | 9 (group) |
| TP/oneM2M/CSE/DMR/UPD/020_ACP | Release 2 | 1 (accessControlPolicy) |

TP/oneM2M/CSE/DMR/UPD/021

| | | |
|---------------------------|---|------------------|
| TP Id | TP/oneM2M/CSE/DMR/UPD/021 | |
| Test objective | Check that the IUT returns successfully only attributes of TARGET_RESOURCE_ADDRESS resource when the Result Content is set to 1 (attributes) | |
| Reference | ETSI TS 118 101 [1], clause 8.1.2, ETSI TS 118 104 [2], clause 6.3.3.2.7 | |
| Config Id | CF01 | |
| Parent Release | PARENT_RELEASE | |
| PICS Selection | PICS_CSE | |
| Initial conditions | <p>with { the IUT being in the "initial state" and the IUT having registered the AE and the IUT having created a resource TARGET_RESOURCE_ADDRESS of type <i>RESOURCE_TYPE</i> containing a child resource and the AE having privileges to perform UPDATE operation on the resource TARGET_RESOURCE_ADDRESS }</p> | |
| Expected behaviour | Test events | Direction |
| | <p>when { the IUT receives a valid UPDATE Request from AE containing To set to TARGET_RESOURCE_ADDRESS and From set to AE_ID and Result Content set to 1 (attributes) Content and RESOURCE_TYPE resource containing valid attribute }</p> | IUT ← AE |
| | <p>then { the IUT sends a valid Response containing Response Status Code set to 2004 (UPDATED) and Content containing RESOURCE_TYPE resource containing attributes and no hierarchichal address and no child resources and no child resource references }</p> | IUT → AE |

| TP Id | PARENT_RELEASE | RESOURCE_TYPE |
|-------------------------------|----------------|-------------------------|
| TP/oneM2M/CSE/DMR/UPD/021_CNT | Release 2 | 3 (container) |
| TP/oneM2M/CSE/DMR/UPD/021_GRP | Release 2 | 9 (group) |
| TP/oneM2M/CSE/DMR/UPD/021_ACP | Release 2 | 1 (accessControlPolicy) |

TP/oneM2M/CSE/DMR/UPD/022

| | | |
|---------------------------|---|------------------|
| TP Id | TP/oneM2M/CSE/DMR/UPD/022 | |
| Test objective | Check that the IUT returns successfully only modified attributes of TARGET_RESOURCE_ADDRESS resource when the Result Content is set to 9 (modified attributes) | |
| Reference | ETSI TS 118 101 [1], clause 8.1.2, ETSI TS 118 104 [2], clause 6.3.3.2.7 | |
| Config Id | CF01 | |
| Parent Release | PARENT_RELEASE | |
| PICS Selection | PICS_CSE | |
| Initial conditions | <p>with { the IUT being in the "initial state" and the IUT having registered the AE and the IUT having created a resource TARGET_RESOURCE_ADDRESS of type RESOURCE_TYPE containing a child resource and the AE having privileges to perform UPDATE operation on the resource TARGET_RESOURCE_ADDRESS }</p> | |
| Expected behaviour | Test events | Direction |
| | <p>when { the IUT receives a valid UPDATE Request from AE containing To set to TARGET_RESOURCE_ADDRESS and From set to AE_ID and Result Content set to 9 (modified attributes) Content and RESOURCE_TYPE resource containing valid ATTRIBUTE attribute set to VALUE }</p> | IUT ← AE |
| | <p>then { the IUT sends a valid Response containing Response Status Code set to 2004 (UPDATED) and Content containing RESOURCE_TYPE resource containing modified attributes and no ATTRIBUTE attribute and no hierarchichal address and no child resources and no child resource references }</p> | IUT → AE |

| TP Id | PARENT_RELEASE | RESOURCE_TYPE |
|-------------------------------|----------------|-------------------------|
| TP/oneM2M/CSE/DMR/UPD/022_CNT | Release 2 | 3 (container) |
| TP/oneM2M/CSE/DMR/UPD/022_GRP | Release 2 | 9 (group) |
| TP/oneM2M/CSE/DMR/UPD/022_ACP | Release 2 | 1 (accessControlPolicy) |

7.2.2.3.3 CREATE Operation

TP/oneM2M/CSE/DMR/CRE/001

| | | |
|---------------------------|--|------------------|
| TP Id | TP/oneM2M/CSE/DMR/CRE/001 | |
| Test objective | Check that the IUT accepts the creation of a <i>RESOURCE_TYPE</i> resource on the <i>TARGET_RESOURCE_ADDRESS</i> of type <i>PARENT_RESOURCE_TYPE</i> with resource name not provided | |
| Reference | ETSI TS 118 101 [1], clause 10.1.1.1 | |
| Config Id | CF01 | |
| Parent Release | <i>PARENT_RELEASE</i> | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE and the Originator having privileges to perform CREATE operation on the resource <i>TARGET_RESOURCE_ADDRESS</i> } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid CREATE Request from AE containing Resource Type set to <i>RESOURCE_TYPE</i> and To set to <i>TARGET_RESOURCE_ADDRESS</i> and From set to AE-ID and Content containing <i>RESOURCE_TYPE</i> resource containing no resourceName attribute } | IUT ← AE |
| | then { the IUT creates the <i>RESOURCE_TYPE</i> resource and the IUT sends a valid Response containing Response Status Code set to 2001 (CREATED) and Content containing <i>RESOURCE_TYPE</i> resource containing Valid resourceName attribute } | IUT → AE |

| TP Id | PARENT_RELEASE | Reference | RESOURCE_TYPE | PARENT_RESOURCE_TYPE |
|-----------------------------------|----------------|--------------------------------------|---------------|----------------------|
| TP/oneM2M/CSE/DMR/CRE/001_CNT/CB | Release 1 | ETSI TS 118 101 [1], clause 10.2.4.1 | 3 (container) | 5 (CSEBase) |
| TP/oneM2M/CSE/DMR/CRE/001_CNT/AE | Release 1 | ETSI TS 118 101 [1], clause 10.2.4.1 | 3 (container) | 2 (AE) |
| TP/oneM2M/CSE/DMR/CRE/001_CNT/CNT | Release 1 | ETSI TS 118 101 [1], clause 10.2.4.1 | 3 (container) | 3 (container) |

| TP Id | PARENT_RELEASE | Reference | RESOURCE_TYPE | PARENT_RESOURCE_TYPE |
|-----------------------------------|----------------|---------------------------------------|------------------------------|-------------------------|
| TP/oneM2M/CSE/DMR/CRE/001_ACP/CB | Release 1 | ETSI TS 118 101 [1], clause 10.2.21.1 | 1 (accessControlPolicy) | 5 (CSEBase) |
| TP/oneM2M/CSE/DMR/CRE/001_ACP/AE | Release 1 | ETSI TS 118 101 [1], clause 10.2.21.1 | 1 (accessControlPolicy) | 2 (AE) |
| TP/oneM2M/CSE/DMR/CRE/001_SUB/CB | Release 1 | ETSI TS 118 101 [1], clause 10.2.11.2 | 23 (subscription) | 5 (CSEBase) |
| TP/oneM2M/CSE/DMR/CRE/001_SUB/AE | Release 1 | ETSI TS 118 101 [1], clause 10.2.11.2 | 23 (subscription) | 2 (AE) |
| TP/oneM2M/CSE/DMR/CRE/001_SUB/CNT | Release 1 | ETSI TS 118 101 [1], clause 10.2.11.2 | 23 (subscription) | 3 (container) |
| TP/oneM2M/CSE/DMR/CRE/001_SUB/ACP | Release 1 | ETSI TS 118 101 [1], clause 10.2.11.2 | 23 (subscription) | 1 (accessControlPolicy) |
| TP/oneM2M/CSE/DMR/CRE/001_SUB/CSR | Release 1 | ETSI TS 118 101 [1], table 9.6.4-1 | 23 (subscription) | 16 (remoteCSE) |
| TP/oneM2M/CSE/DMR/CRE/001_CIN/CNT | Release 1 | ETSI TS 118 101 [1], clause 10.2.4.1 | 4 (contentInstance) | 3 (container) |
| TP/oneM2M/CSE/DMR/CRE/001_GRP/CB | Release 1 | ETSI TS 118 101 [1], clause 10.2.7.2 | 9 (group) | 5 (CSEBase) |
| TP/oneM2M/CSE/DMR/CRE/001_GRP/AE | Release 1 | ETSI TS 118 101 [1], clause 10.2.7.2 | 9 (group) | 2 (AE) |
| TP/oneM2M/CSE/DMR/CRE/001_SUB/GRP | Release 1 | ETSI TS 118 101 [1], clause 10.2.11.2 | 23 (subscription) | 9 (group) |
| TP/oneM2M/CSE/DMR/CRE/001_SCH/CB | Release 2 | ETSI TS 118 101 [1], clause 10.2.40.2 | 18 (schedule) | 5 (CSEBase) |
| TP/oneM2M/CSE/DMR/CRE/001_SCH/AE | Release 2 | ETSI TS 118 101 [1], clause 10.2.40.2 | 18 (schedule) | 2 (AE) |
| TP/oneM2M/CSE/DMR/CRE/001_SCH/SUB | Release 2 | ETSI TS 118 101 [1], clause 10.2.40.2 | 18 (schedule) | 23 (subscription) |
| TP/oneM2M/CSE/DMR/CRE/001_PCH/AE | Release 2 | ETSI TS 118 101 [1], clause 10.2.13.2 | 15 (pollingChannel) | 2 (AE) |
| TP/oneM2M/CSE/DMR/CRE/001_SUB/SCH | Release 2 | ETSI TS 118 101 [1], clause 10.2.11.2 | 23 (subscription) | 18 (schedule) |
| TP/oneM2M/CSE/DMR/CRE/001_NOD/CB | Release 2 | ETSI TS 118 101 [1], table 9.6.3-1 | 14 (node) | 5 (CSEBase) |
| TP/oneM2M/CSE/DMR/CRE/001_MGC/CB | Release 2 | ETSI TS 118 101 [1], table 9.6.3-1 | 12 (mgmtCmd) | 5 (CSEBase) |
| TP/oneM2M/CSE/DMR/CRE/001_LCP/CB | Release 2 | ETSI TS 118 101 [1], table 9.6.3-1 | 10 (locationPolicy) | 5 (CSEBase) |
| TP/oneM2M/CSE/DMR/CRE/001_STCG/CB | Release 2 | ETSI TS 118 101 [1], table 9.6.3-1 | 22 (statsConfig) | 5 (CSEBase) |
| TP/oneM2M/CSE/DMR/CRE/001_STCL/CB | Release 2 | ETSI TS 118 101 [1], table 9.6.3-1 | 21 (statsCollect) | 5 (CSEBase) |
| TP/oneM2M/CSE/DMR/CRE/001_ASAR/CB | Release 2 | ETSI TS 118 101 [1], table 9.6.3-1 | 19(serviceSubscribedAppRule) | 5 (CSEBase) |

| TP Id | PARENT_RELEASE | Reference | RESOURCE_TYPE | PARENT_RESOURCE_TYPE |
|---|----------------|--|----------------------------|----------------------|
| TP/oneM2M/CSE/DMR/CRE/001_SCH/CS R | Release 2 | ETSI TS 118 101 [1], table 9.6.4-1 | 18 (schedule) | 16 (remoteCSE) |
| TP/oneM2M/CSE/DMR/CRE/001_SUB/AEA | Release 2 | ETSI TS 118 101 [1], table 9.6.5-1 | 23 (subscription) | 10002 (AEannnc) |
| TP/oneM2M/CSE/DMR/CRE/001_CNT/AEA | Release 2 | ETSI TS 118 101 [1], table 9.6.5-1 | 3 (container) | 10002 (AEannnc) |
| TP/oneM2M/CSE/DMR/CRE/001_GRP/AEA | Release 2 | ETSI TS 118 101 [1], table 9.6.5-1 | 9 (group) | 10002 (AEannnc) |
| TP/oneM2M/CSE/DMR/CRE/001_ACP/AEA | Release 2 | ETSI TS 118 101 [1], table 9.6.5-1 | 1 (accessControlPolicy) | 10002 (AEannnc) |
| TP/oneM2M/CSE/DMR/CRE/001_EVCF/ST CG | Release 2 | ETSI TS 118 101 [1], table 9.6.23-1 | 7 (eventConfig) | 22 (statsConfig) |
| TP/oneM2M/CSE/DMR/CRE/001_SUB/ST G | Release 2 | ETSI TS 118 101 [1], table 9.6.23-1 | 23 (subscription) | 22 (statsConfig) |
| TP/oneM2M/CSE/DMR/CRE/001_TS/CB | Release 2 | ETSI TS 118 101 [1], table 9.6.36-1 | 29 (timeSeries) | 5 (CSEBase) |
| TP/oneM2M/CSE/DMR/CRE/001_TS/AE | Release 2 | ETSI TS 118 101 [1], table 9.6.36-1 | 29 (timeSeries) | 2 (AE) |
| TP/oneM2M/CSE/DMR/CRE/001_TS/CSR | Release 2 | ETSI TS 118 101 [1], table 9.6.36-1 | 29 (timeSeries) | 16 (remoteCSE) |
| TP/oneM2M/CSE/DMR/CRE/001_TS/AEA | Release 2 | ETSI TS 118 101 [1], table 9.6.36-1 | 29 (timeSeries) | 10002 (AEannnc) |
| TP/oneM2M/CSE/DMR/CRE/001_TSI/TS | Release 2 | ETSI TS 118 101 [1], table 9.6.37-1 | 30 (timeSeriesInstance) | 30 (timeSeries) |

TP/oneM2M/CSE/DMR/CRE/002

| | | |
|---------------------------|---|---------------------------------|
| TP Id | TP/oneM2M/CSE/DMR/CRE/002 | |
| Test objective | Check that the IUT accepts the creation of a <i>RESOURCE_TYPE</i> resource with a non-existing resource name provided by AE | |
| Reference | ETSI TS 118 101 [1], clause 10.1.1.1 | |
| Config Id | CF01 | |
| Parent Release | <i>PARENT_RELEASE</i> | |
| PICS Selection | PICS_CSE | |
| Initial conditions | <pre>with { the IUT being in the "initial state" and the IUT having registered the AE and the AE having privileges to perform CREATE operation on the resource TARGET_RESOURCE_ADDRESS and the AE containing no child resource containing resourceName attribute set to NAME }</pre> | |
| Expected behaviour | Test events | Direction |
| | <pre>when { the IUT receives a valid CREATE Request from AE containing To set to AE_RESOURCE_ADDRESS and Resource Type set to RESOURCE_TYPE and From set to AE-ID and Content containing RESOURCE_TYPE resource containing resourceName attribute set to NAME } then { the IUT creates the RESOURCE_TYPE resource and the IUT sends a valid Response containing Response Status Code set to 2001 (CREATED) }</pre> | <p>IUT ← AE</p> <p>IUT → AE</p> |

| TP Id | PARENT_RELEASE | Reference | RESOURCE_TYPE |
|-------------------------------|----------------|--|-------------------------|
| TP/oneM2M/CSE/DMR/CRE/002_CNT | Release 1 | ETSI TS 118 101 [1], clause 10.2.4.1 | 3 (container) |
| TP/oneM2M/CSE/DMR/CRE/002_ACP | Release 1 | ETSI TS 118 101 [1], clause 10.2.21.1 | 1 (accessControlPolicy) |
| TP/oneM2M/CSE/DMR/CRE/002_SUB | Release 1 | ETSI TS 118 101 [1], clause 10.2.11.2 | 23 (subscription) |
| TP/oneM2M/CSE/DMR/CRE/002_GRP | Release 1 | ETSI TS 118 101 [1], clause 10.2.7.2 | 9 (group) |
| TP/oneM2M/CSE/DMR/CRE/002_SCH | Release 2 | ETSI TS 118 101 [1], clause 10.2.40.2 | 18 (schedule) |

| | | | |
|--------------------------------|-----------|--|---------------------|
| TP/oneM2M/CSE/DMR/CRE/002_PCH | Release 2 | ETSI TS 118 101 [1], clause 10.2.13.2 | 15 (pollingChannel) |
| TP/oneM2M/CSE/DMR/CRE/002_TS | Release 2 | ETSI TS 118 101 [1], clause 10.2.30.1 | 29 (timeSeries) |
| TP/oneM2M/CSE/DMR/CRE/002_FLXC | Release 2 | ETSI TS 118 101 [1], clause 10.2.29.1 | 28 (flexContainer) |

TP/oneM2M/CSE/DMR/CRE/003

| | | |
|---------------------------|---|------------------|
| TP Id | TP/oneM2M/CSE/DMR/CRE/003 | |
| Test objective | Check that the IUT rejects the creation of a <i>RESOURCE_TYPE</i> resource with an existing resource name provided by AE | |
| Reference | ETSI TS 118 101 [1], clause 10.1.1.1 | |
| Config Id | CF01 | |
| Parent Release | <i>PARENT_RELEASE</i> | |
| PICS Selection | PICS_CSE | |
| Initial conditions | <pre>with { the IUT being in the "initial state" and the IUT having registered the AE and the AE having privileges to perform CREATE operation on the resource TARGET_RESOURCE_ADDRESS and the AE containing a child resource having resourceName attribute set to NAME }</pre> | |
| Expected behaviour | Test events | Direction |
| | <pre>when { the IUT receives a valid CREATE Request from AE containing To set to AE_RESOURCE_ADDRESS and Resource Type set to <i>RESOURCE_TYPE</i> and From set to AE-ID and Content containing <i>RESOURCE_TYPE</i> resource containing resourceName attribute set to NAME }</pre> | IUT ← AE |
| | <pre>then { the IUT sends a valid Response containing Response Status Code set to 4105 (CONFLICT) }</pre> | IUT → AE |

| TP Id | PARENT_RELEASE | Reference | RESOURCE_TYPE |
|-------------------------------|----------------|--|-------------------------|
| TP/oneM2M/CSE/DMR/CRE/003_CNT | Release 1 | ETSI TS 118 101 [1], clause 10.2.4.1 | 3 (container) |
| TP/oneM2M/CSE/DMR/CRE/003_ACP | Release 1 | ETSI TS 118 101 [1], clause 10.2.21.1 | 1 (accessControlPolicy) |
| TP/oneM2M/CSE/DMR/CRE/003_SUB | Release 1 | ETSI TS 118 101 [1], clause 10.2.11.2 | 23 (subscription) |
| TP/oneM2M/CSE/DMR/CRE/003_GRP | Release 1 | ETSI TS 118 101 [1], clause 10.2.7.2 | 9 (group) |
| TP/oneM2M/CSE/DMR/CRE/003_SCH | Release 2 | ETSI TS 118 101 [1], clause 10.2.40.2 | 18 (schedule) |
| TP/oneM2M/CSE/DMR/CRE/003_PCH | Release 2 | ETSI TS 118 101 [1], clause 10.2.13.2 | 15 (pollingChannel) |
| TP/oneM2M/CSE/DMR/CRE/003_TS | Release 2 | ETSI TS 118 101 [1], clause 10.2.30.1 | 29 (timeSeries) |

TP/oneM2M/CSE/DMR/CRE/004

| | | |
|---------------------------|---|------------------|
| TP Id | TP/oneM2M/CSE/DMR/CRE/004 | |
| Test objective | Check that the IUT rejects the creation of a <i>RESOURCE_TYPE</i> resource when AE has no privileges | |
| Reference | ETSI TS 118 101 [1], clause 10.1.1.1 | |
| Config Id | CF01 | |
| Parent Release | <i>PARENT_RELEASE</i> | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE and the AE having no privileges to perform CREATE operation on the resource TARGET_RESOURCE_ADDRESS } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid CREATE Request from AE containing To set to AE_RESOURCE_ADDRESS and Resource Type set to <i>RESOURCE_TYPE</i> and From set to AE-ID and Content containing <i>RESOURCE_TYPE</i> resource } | IUT ← AE |
| | then { the IUT does not create the <i>RESOURCE_TYPE</i> resource and the IUT sends a valid Response containing Response Status Code set to 4103 (ACCESS_DENIED) } | IUT → AE |

| TP Id | PARENT_RELEASE | Reference | RESOURCE_TYPE |
|-------------------------------|----------------|---------------------------------------|-------------------------|
| TP/oneM2M/CSE/DMR/CRE/004_CNT | Release 1 | ETSI TS 118 101 [1], clause 10.2.4.1 | 3 (container) |
| TP/oneM2M/CSE/DMR/CRE/004_ACP | Release 1 | ETSI TS 118 101 [1], clause 10.2.21.1 | 1 (accessControlPolicy) |
| TP/oneM2M/CSE/DMR/CRE/004_SUB | Release 1 | ETSI TS 118 101 [1], clause 10.2.11.2 | 23 (subscription) |
| TP/oneM2M/CSE/DMR/CRE/004_GRP | Release 1 | ETSI TS 118 101 [1], clause 10.2.7.2 | 9 (group) |
| TP/oneM2M/CSE/DMR/CRE/004_SCH | Release 2 | ETSI TS 118 101 [1], clause 10.2.40.2 | 18 (schedule) |
| TP/oneM2M/CSE/DMR/CRE/004_PCH | Release 2 | ETSI TS 118 101 [1], clause 10.2.13.2 | 15 (pollingChannel) |
| TP/oneM2M/CSE/DMR/CRE/004_TS | Release 2 | ETSI TS 118 101 [1], clause 10.2.30.1 | 29 (timeSeries) |

TP/oneM2M/CSE/DMR/CRE/005

| | | |
|---------------------------|--|------------------|
| TP Id | TP/oneM2M/CSE/DMR/CRE/005 | |
| Test objective | Check that the IUT rejects the CREATE Request of container resource when the RW ATTRIBUTE is provided with an invalid value | |
| Reference | ETSI TS 118 101 [1], clause 10.2.4.1, ETSI TS 118 104 [2], clause 7.4.7.1 | |
| Config Id | CF01 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE and the AE having privileges to perform CREATE operation on the resource AE_RESOURCE_ADDRESS } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid CREATE Request from AE containing To set to TARGET_RESOURCE_ADDRESS and From set to AE_ID and Resource Type set to 3 (container) and Content containing an invalid RW <i>ATTRIBUTE</i> attribute } | IUT ← AE |
| | then { the IUT does not create the container resource and the IUT sends a valid Response containing Response Status Code set to 4000 (BAD_REQUEST) } | IUT → AE |

| TP Id | Reference | ATTRIBUTE |
|-------------------------------|---|------------------|
| TP/oneM2M/CSE/DMR/CRE/005_MNI | ETSI TS 118 101 [1], clause 9.6.6, ETSI TS 118 104 [2], clause 7.4.7.1 | maxNrOfInstances |
| TP/oneM2M/CSE/DMR/CRE/005_MBS | ETSI TS 118 101 [1], clause 9.6.6, ETSI TS 118 104 [2], clause 7.4.7.1 | maxByteSize |
| TP/oneM2M/CSE/DMR/CRE/005_MIA | ETSI TS 118 101 [1], clause 9.6.6, ETSI TS 118 104 [2], clause 7.4.7.1 | maxInstanceAge |

TP/oneM2M/CSE/DMR/CRE/006

| | | |
|---------------------------|--|---------------------------------|
| TP Id | TP/oneM2M/CSE/DMR/CRE/006 | |
| Test objective | Check that the IUT returns a default value to RW ATTRIBUTE in the response of a RESOURCE_TYPE resource CREATE Request where no a RW ATTRIBUTE is provided by AE | |
| Reference | ETSI TS 118 101 [1], clause 10.2.4.1, ETSI TS 118 104 [2], clause 7.4.7.1 | |
| Config Id | CF01 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | <p>with { the IUT being in the "initial state" and the IUT having registered the AE and the AE having privileges to perform CREATE operation on the resource AE_RESOURCE_ADDRESS }</p> | |
| Expected behaviour | Test events | Direction |
| | <p>when { the IUT receives a valid CREATE Request from AE containing To set to AE_RESOURCE_ADDRESS and From set to AE_ID and Resource Type set to RESOURCE_TYPE and Content containing RESOURCE_TYPE resource representation }</p> <p>then { the IUT creates the RESOURCE_TYPE resource and the IUT sends a valid Response containing Response Status Code set to 2001 (CREATED) and Content containing RESOURCE_TYPE resource containing valid ATTRIBUTE attribute }</p> | <p>IUT ← AE</p> <p>IUT → AE</p> |

| TP Id | Reference | RESOURCE_TYPE | ATTRIBUTE |
|-----------------------------------|---|---------------|------------------|
| TP/oneM2M/CSE/DMR/CRE/006_CNT/MNI | ETSI TS 118 101 [1], clause 9.6.6, ETSI TS 118 104 [2], clause 7.4.7.1 | container | maxNrOfInstances |
| TP/oneM2M/CSE/DMR/CRE/006_CNT/MBS | ETSI TS 118 101 [1], clause 9.6.6, ETSI TS 118 104 [2], clause 7.4.7.1 | container | maxByteSize |
| TP/oneM2M/CSE/DMR/CRE/006_CNT/MIA | ETSI TS 118 101 [1], clause 9.6.6, ETSI TS 118 104 [2], clause 7.4.7.1 | container | maxInstanceAge |
| TP/oneM2M/CSE/DMR/CRE/006_TS/MNI | ETSI TS 118 101 [1], clause 9.6.36, ETSI TS 118 104 [2], clause 7.4.38.1 | timeSeries | maxNrOfInstances |
| TP/oneM2M/CSE/DMR/CRE/006_TS/MBS | ETSI TS 118 101 [1], clause 9.6.36, ETSI TS 118 104 [2], clause 7.4.38.1 | timeSeries | maxByteSize |

| | | | |
|----------------------------------|---|------------|----------------|
| TP/oneM2M/CSE/DMR/CRE/006_TS/MIA | ETSI TS 118 101 [1], clause 9.6.36, ETSI TS 118 104 [2], clause 7.4.38.1 | timeSeries | maxInstanceAge |
|----------------------------------|---|------------|----------------|

TP/oneM2M/CSE/DMR/CRE/007

| | | |
|---------------------------|--|------------------|
| TP Id | TP/oneM2M/CSE/DMR/CRE/007 | |
| Test objective | Checks that the IUT accepts a newly created <i>RESOURCE_TYPE</i> when the <i>currentNrOfInstances</i> exceeds the field value set in <i>maxNrOfInstances</i> in the <i>PARENT_RESOURCE_TYPE</i> resource by removing enough of the oldest <i>RESOURCE_TYPE</i> resources to allow the creation of the new <i>RESOURCE_TYPE</i> resource | |
| Reference | ETSI TS 118 101 [1], clause 10.2.19.2, ETSI TS 118 104 [2], clause 7.4.8.2 | |
| Config Id | CF01 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | <p>with {</p> <p>the IUT being in the "initial state"</p> <p>and the IUT having registered the AE containing</p> <p style="padding-left: 20px;">a <i>PARENT_RESOURCE_TYPE</i> resource containing</p> <p style="padding-left: 40px;"><i>currentNrOfInstances</i> attribute set to MAX_NUMBER_OF_INSTANCES</p> <p style="padding-left: 40px;">and <i>maxNrOfInstances</i> attribute set to MAX_NUMBER_OF_INSTANCES</p> <p>and the AE having privileges to perform CREATE operation on the resource</p> <p><i>PARENT_RESOURCE_ADDRESS</i></p> <p>}</p> | |
| Expected behaviour | Test events | Direction |
| | <p>when {</p> <p>the IUT receives a valid CREATE Request from AE containing</p> <p style="padding-left: 20px;">To set to <i>PARENT_RESOURCE_ADDRESS</i> and</p> <p style="padding-left: 20px;">From set to AE_ID and</p> <p style="padding-left: 20px;">Resource Type set to <i>RESOURCE_TYPE</i> and</p> <p style="padding-left: 20px;">Content containing</p> <p style="padding-left: 40px;"><i>RESOURCE_TYPE</i> resource representation</p> <p>}</p> <p>then {</p> <p>the IUT creates the <i>RESOURCE_TYPE</i> resource</p> <p>and the IUT removes the oldest <i>RESOURCE_TYPE</i> resources</p> <p>and the IUT sends a valid Response containing</p> <p style="padding-left: 20px;">Response Status Code set to 2001 (CREATED)</p> <p>}</p> | IUT ← AE |
| | | IUT → AE |

| TP Id | PARENT_RESOURCE_TYPE | RESOURCE_TYPE |
|-----------------------------------|----------------------|---------------------------|
| TP/oneM2M/CSE/DMR/CRE/007_CNT/CIN | <i>container</i> | <i>contentInstance</i> |
| TP/oneM2M/CSE/DMR/CRE/007_TS/TSI | <i>timeSeries</i> | <i>timeSeriesInstance</i> |

TP/oneM2M/CSE/DMR/CRE/008

| | | |
|---------------------------|---|---------------------------|
| TP Id | TP/oneM2M/CSE/DMR/CRE/008 | |
| Test objective | Checks that the IUT accepts a newly created <i>RESOURCE_TYPE</i> resource when the <i>currentByteSize</i> exceeds the field value set in <i>maxByteSize</i> in the <i>PARENT_RESOURCE_TYPE</i> resource by removing enough of the oldest <i>RESOURCE_TYPE</i> resources to allow the creation of the new <i>RESOURCE_TYPE</i> resource.. | |
| Reference | ETSI TS 118 101 [1], clause 10.2.19.2 | |
| Config Id | CF01 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | <p>with { the IUT being in the "initial state" and the IUT having registered the AE containing a <i>PARENT_RESOURCE_TYPE</i> resource containing <i>maxByteSize</i> attribute set to MAX_BYTE_SIZE_OF_DATA and <i>currentByteSize</i> attribute set to MAX_BYTE_SIZE_OF_DATA and the AE having privileges to perform CREATE operation on the resource PARENT_RESOURCE_ADDRESS }</p> | |
| Expected behaviour | Test events | Expected behaviour |
| | <p>when { the IUT receives a valid CREATE Request from AE containing To set to PARENT_RESOURCE_ADDRESS and From set to AE_ID and Resource Type set to <i>RESOURCE_TYPE</i> and Content containing <i>RESOURCE_TYPE</i> resource with size less than MAX_BYTE_SIZE_OF DATA }</p> | IUT ← AE |
| | <p>then { the IUT creates the <i>RESOURCE_TYPE</i> resource and the IUT removes the oldest contentInstance resources and the IUT sends a valid Response containing Response Status Code set to 2001 (CREATED) }</p> | IUT → AE |

| TP Id | PARENT_RESOURCE_TYPE | RESOURCE_TYPE |
|-----------------------------------|----------------------|---------------------------|
| TP/oneM2M/CSE/DMR/CRE/008_CNT/CIN | <i>container</i> | <i>contentInstance</i> |
| TP/oneM2M/CSE/DMR/CRE/008_TS/TSI | <i>timeSeries</i> | <i>timeSeriesInstance</i> |

TP/oneM2M/CSE/DMR/CRE/009

| | | |
|---------------------------|---|------------------|
| TP Id | TP/oneM2M/CSE/DMR/CRE/009 | |
| Test objective | Check that the IUT increments and then copies the field value of attribute <i>stateTag</i> in parent container resource when contentInstance resource is created as the direct child of the parent container | |
| Reference | ETSI TS 118 101 [1], clause 9.6.1.3.2, ETSI TS 118 104 [2], clause 7.4.7.1 | |
| Config Id | CF01 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | <pre> with { the IUT being in the "initial state" and the IUT having registered the AE containing a container resource CONTAINER_RESOURCE_ADDRESS containing stateTag attribute and the AE having privileges to perform CREATE operation on the resource CONTAINER_RESOURCE_ADDRESS } </pre> | |
| Expected behaviour | Test events | Direction |
| | <pre> when { the IUT receives a valid CREATE Request from AE containing To set to CONTAINER_RESOURCE_ADDRESS and From set to AE_ID and Resource Type set to 4 (contentInstance) and Content containing contentInstance resource representation } </pre> | IUT ← AE |
| | <pre> then { the IUT increments stateTag attribute of CONTAINER_RESOURCE_ADDRESS resource and the IUT sends a valid Response containing Response Status Code set to 2001 (CREATED) } </pre> | IUT → AE |

TP/oneM2M/CSE/DMR/CRE/010

| | | |
|---------------------------|--|------------------|
| TP Id | TP/oneM2M/CSE/DMR/CRE/010 | |
| Test objective | Check that the IUT rejects the CREATE Request of a container resource named "la" as a direct child of a container resource | |
| Reference | ETSI TS 118 101 [1], clause 10.2.22, ETSI TS 118 104 [2], clause 7.4.28.2.2 and clause 7.3.2.1 | |
| Config Id | CF01 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE and the IUT having created a container resource CONTAINER_RESOURCE_ADDRESS and the IUT having privileges to perform CREATE operation on the resource CONTAINER_RESOURCE_ADDRESS } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid CREATE Request from AE containing To set to CONTAINER_RESOURCE_ADDRESS and From set to AE_ID and Content containing Container resource containing resourceName attribute set to "la" } | IUT ← AE |
| | then { the IUT does not create the container resource and the IUT sends a valid Response containing Response Status Code set to 4005 (OPERATION_NOT_ALLOWED) } | IUT → AE |

TP/oneM2M/CSE/DMR/CRE/011

| | | |
|---------------------------|--|------------------|
| TP Id | TP/oneM2M/CSE/DMR/CRE/011 | |
| Test objective | Check that the IUT rejects the CREATE Request of a container resource named "ol" as a direct child of a container resource | |
| Reference | ETSI TS 118 101 [1], clause 10.2.23, ETSI TS 118 104 [2], clause 7.4.29.2.2 and clause 7.3.2.1 | |
| Config Id | CF01 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE and the IUT having created a container resource CONTAINER_RESOURCE_ADDRESS and the IUT having privileges to perform CREATE operation on the resource CONTAINER_RESOURCE_ADDRESS } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid CREATE Request from AE containing To set to CONTAINER_RESOURCE_ADDRESS and From set to AE_ID and Content containing container resource containing resourceName attribute set to "ol" } | IUT ← AE |
| | then { the IUT does not create the container resource and the IUT sends a valid Response containing Response Status Code set to 4005 (OPERATION_NOT_ALLOWED) } | IUT → AE |

| TP Id | PARENT_RELEASE | PICS Selection | Reference | RESOURCE_TYPE | OPTIONAL_ATTRIBUTE |
|------------------------------------|----------------|----------------|--|-------------------------|-----------------------------|
| TP/oneM2M/CSE/DMR/CRE/012_CNT/MIA | Release 1 | PICS_CNT_MIA | ETSI TS 118 101 [1], table 9.6.6-2 | 3 (container) | maxInstanceAge |
| TP/oneM2M/CSE/DMR/CRE/012_CNT/OR | Release 1 | PICS_CNT_OR | ETSI TS 118 101 [1], table 9.6.6-2 | 3 (container) | ontologyRef |
| TP/oneM2M/CSE/DMR/CRE/012_CNT/CR | Release 1 | PICS_CNT_CR | ETSI TS 118 101 [1], table 9.6.6-2 | 3 (container) | creator |
| TP/oneM2M/CSE/DMR/CRE/012_CIN/ET | Release 1 | PICS_CIN_ET | ETSI TS 118 101 [1], table 9.6.1.3.1-1 | 4 (contentInstance) | expirationTime |
| TP/oneM2M/CSE/DMR/CRE/012_CIN/LBL | Release 1 | PICS_CIN_LBL | ETSI TS 118 101 [1], table 9.6.1.3.2-1 | 4 (contentInstance) | labels |
| TP/oneM2M/CSE/DMR/CRE/012_CIN/CR | Release 1 | PICS_CIN_CR | ETSI TS 118 101 [1], table 9.6.7-2 | 4 (contentInstance) | creator |
| TP/oneM2M/CSE/DMR/CRE/012_CIN/CNF | Release 1 | PICS_CIN_CNF | ETSI TS 118 101 [1], table 9.6.7-2 | 4 (contentInstance) | contentInfo |
| TP/oneM2M/CSE/DMR/CRE/012_CIN/OR | Release 1 | PICS_CIN_OR | ETSI TS 118 101 [1], table 9.6.7-2 | 4 (contentInstance) | ontologyRef |
| TP/oneM2M/CSE/DMR/CRE/012_ACP/ET | Release 1 | N/A | ETSI TS 118 101 [1], table 9.6.1.3.1-1 | 1 (accessControlPolicy) | expirationTime |
| TP/oneM2M/CSE/DMR/CRE/012_ACP/LBL | Release 1 | PICS_ACP_LBL | ETSI TS 118 101 [1], table 9.6.1.3.2-1 | 1 (accessControlPolicy) | labels |
| TP/oneM2M/CSE/DMR/CRE/012_SUB/ACPI | Release 1 | PICS_SUB_ACPI | ETSI TS 118 101 [1], table 9.6.1.3.2-1 | 23 (subscription) | accessControlPolicyIDs |
| TP/oneM2M/CSE/DMR/CRE/012_SUB/ET | Release 1 | N/A | ETSI TS 118 101 [1], table 9.6.1.3.1-1 | 23 (subscription) | expirationTime |
| TP/oneM2M/CSE/DMR/CRE/012_SUB/LBL | Release 1 | PICS_SUB_LBL | ETSI TS 118 101 [1], table 9.6.1.3.2-1 | 23 (subscription) | labels |
| TP/oneM2M/CSE/DMR/CRE/012_SUB/ENC | Release 1 | PICS_SUB_ENC | ETSI TS 118 101 [1], table 9.6.8-2 | 23 (subscription) | eventNotificationCriteria |
| TP/oneM2M/CSE/DMR/CRE/012_SUB/EXC | Release 1 | PICS_SUB_EXC | ETSI TS 118 101 [1], table 9.6.8-2 | 23 (subscription) | expirationCounter |
| TP/oneM2M/CSE/DMR/CRE/012_SUB/GPI | Release 1 | PICS_SUB_GPI | ETSI TS 118 101 [1], table 9.6.8-2 | 23 (subscription) | groupID |
| TP/oneM2M/CSE/DMR/CRE/012_SUB/NFU | Release 1 | PICS_SUB_NFU | ETSI TS 118 101 [1], table 9.6.8-2 | 23 (subscription) | notificationForwardingURI |
| TP/oneM2M/CSE/DMR/CRE/012_SUB/BN | Release 1 | PICS_SUB_BN | ETSI TS 118 101 [1], table 9.6.8-2 | 23 (subscription) | batchNotify |
| TP/oneM2M/CSE/DMR/CRE/012_SUB/RL | Release 1 | PICS_SUB_RL | ETSI TS 118 101 [1], table 9.6.8-2 | 23 (subscription) | rateLimit |
| TP/oneM2M/CSE/DMR/CRE/012_SUB/PSN | Release 1 | PICS_SUB_PSN | ETSI TS 118 101 [1], table 9.6.8-2 | 23 (subscription) | preSubscriptionNotify |
| TP/oneM2M/CSE/DMR/CRE/012_SUB/PN | Release 1 | PICS_SUB_PN | ETSI TS 118 101 [1], table 9.6.8-2 | 23 (subscription) | pendingNotification |
| TP/oneM2M/CSE/DMR/CRE/012_SUB/NSP | Release 1 | PICS_SUB_NSP | ETSI TS 118 101 [1], table 9.6.8-2 | 23 (subscription) | notificationStoragePriority |

| TP Id | PARENT_RELEASE | PICS Selection | Reference | RESOURCE_TYPE | OPTIONAL_ATTRIBUTE |
|-----------------------------------|----------------|----------------|-------------------------------------|-------------------------|-------------------------|
| TP/oneM2M/CSE/DMR/CRE/012_SUB/LN | Release 1 | PICS_SUB_LN | ETSI TS 118 101 [1], table 9.6.8-2 | 23 (subscription) | latestNotify |
| TP/oneM2M/CSE/DMR/CRE/012_SUB/NCT | Release 1 | PICS_SUB_NCT | ETSI TS 118 101 [1], table 9.6.8-2 | 23 (subscription) | notificationContentType |
| TP/oneM2M/CSE/DMR/CRE/012_SUB/NEC | Release 1 | PICS_SUB_NEC | ETSI TS 118 101 [1], table 9.6.8-2 | 23 (subscription) | notificationEventCat |
| TP/oneM2M/CSE/DMR/CRE/012_SUB/CR | Release 1 | PICS_SUB_CR | ETSI TS 118 101 [1], table 9.6.8-2 | 23 (subscription) | creator |
| TP/oneM2M/CSE/DMR/CRE/012_SUB/SU | Release 1 | PICS_SUB_SU | ETSI TS 118 101 [1], table 9.6.8-2 | 23 (subscription) | subscriberURL |
| TP/oneM2M/CSE/DMR/CRE/012_STCG/CR | Release 2 | | ETSI TS 118 101 [1], table 9.6.23-2 | 22 (statsConfig) | creator |
| TP/oneM2M/CSE/DMR/CRE/012_TS/ACPI | Release 2 | | ETSI TS 118 101 [1], table 9.6.36-2 | 29 (timeSeries) | accessControlPolicyIDs |
| TP/oneM2M/CSE/DMR/CRE/012_TS/ET | Release 2 | | ETSI TS 118 101 [1], table 9.6.36-2 | 29 (timeSeries) | expirationTime |
| TP/oneM2M/CSE/DMR/CRE/012_TS/LBL | Release 2 | | ETSI TS 118 101 [1], table 9.6.36-2 | 29 (timeSeries) | labels |
| TP/oneM2M/CSE/DMR/CRE/012_TS/CR | Release 2 | | ETSI TS 118 101 [1], table 9.6.36-2 | 29 (timeSeries) | creator |
| TP/oneM2M/CSE/DMR/CRE/012_TS/MNI | Release 2 | | ETSI TS 118 101 [1], table 9.6.36-2 | 29 (timeSeries) | maxNrOfInstances |
| TP/oneM2M/CSE/DMR/CRE/012_TS/MBS | Release 2 | | ETSI TS 118 101 [1], table 9.6.36-2 | 29 (timeSeries) | maxByteSize |
| TP/oneM2M/CSE/DMR/CRE/012_TS/MIA | Release 2 | | ETSI TS 118 101 [1], table 9.6.36-2 | 29 (timeSeries) | maxInstanceAge |
| TP/oneM2M/CSE/DMR/CRE/012_TS/PEI | Release 2 | | ETSI TS 118 101 [1], table 9.6.36-2 | 29 (timeSeries) | periodicInterval |
| TP/oneM2M/CSE/DMR/CRE/012_TS/MDD | Release 2 | | ETSI TS 118 101 [1], table 9.6.36-2 | 29 (timeSeries) | missingDataDetect |
| TP/oneM2M/CSE/DMR/CRE/012_TS/MDN | Release 2 | | ETSI TS 118 101 [1], table 9.6.36-2 | 29 (timeSeries) | missingDataMaxNr |
| TP/oneM2M/CSE/DMR/CRE/012_TS/MDT | Release 2 | | ETSI TS 118 101 [1], table 9.6.36-2 | 29 (timeSeries) | missingDataDetectTimer |
| TP/oneM2M/CSE/DMR/CRE/012_TS/OR | Release 2 | | ETSI TS 118 101 [1], table 9.6.36-2 | 29 (timeSeries) | ontologyRef |
| TP/oneM2M/CSE/DMR/CRE/012_TSI/ET | Release 2 | | ETSI TS 118 101 [1], table 9.6.37-1 | 30 (timeSeriesInstance) | expirationTime |
| TP/oneM2M/CSE/DMR/CRE/012_TSI/LBL | Release 2 | | ETSI TS 118 101 [1], table 9.6.37-1 | 30 (timeSeriesInstance) | labels |
| TP/oneM2M/CSE/DMR/CRE/012_TSI/SNR | Release 2 | | ETSI TS 118 101 [1], table 9.6.37-1 | 30 (timeSeriesInstance) | sequenceNr |

TP/oneM2M/CSE/DMR/CRE/013

| | | |
|---------------------------|---|------------------|
| TP Id | TP/oneM2M/CSE/DMR/CRE/013 | |
| Test objective | Check that the IUT rejects the CREATE Request of a <i>RESOURCE_TYPE</i> resource with error "NOT_ACCEPTABLE" when <i>contentSize</i> exceeds <i>maxByteSize</i> of the <i>PARENT_RESOURCE_TYPE</i> | |
| Reference | ETSI TS 118 101 [1], clause 10.2.19, ETSI TS 118 104 [2], clause 7.4.7.2.1 | |
| Config Id | CF01 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE containing a <i>PARENT_RESOURCE_TYPE</i> resource having <i>maxByteSize</i> attribute set to MAX_BYTE_SIZE } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid CREATE Request from AE containing To set to PARENT_RESOURCE_ADDRESS and From set to AE_ID and Content containing <i>RESOURCE_TYPE</i> resource containing valid content with size larger than MAX_BYTE_SIZE } | IUT ← AE |
| | then { the IUT sends a valid Response containing Response Status Code set to 5207 (NOT_ACCEPTABLE) } | IUT → AE |

| TP Id | PARENT_RESOURCE_TYPE | RESOURCE_TYPE |
|-----------------------------------|----------------------|---------------------------|
| TP/oneM2M/CSE/DMR/CRE/013_CNT/CIN | <i>container</i> | <i>contentInstance</i> |
| TP/oneM2M/CSE/DMR/CRE/013_TS/TSI | <i>timeSeries</i> | <i>timeSeriesInstance</i> |

TP/oneM2M/CSE/DMR/CRE/014

| | | |
|---------------------------|--|------------------|
| TP Id | TP/oneM2M/CSE/DMR/CRE/014 | |
| Test objective | Check that the IUT updates the currentByteSize attribute in a <i>PARENT_RESOURCE_TYPE</i> when a new <i>RESOURCE_TYPE</i> is created. | |
| Reference | ETSI TS 118 101 [1], clause 10.2.19.2, ETSI TS 118 104 [2], clause 7.4.8.2 | |
| Config Id | CF01 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | <p>with { the IUT being in the "initial state" and the IUT having registered the AE containing a <i>PARENT_RESOURCE_TYPE</i> resource at <i>PARENT_RESOURCE_ADDRESS</i> containing maxByteSize attribute set to <i>MAX_BYTE_SIZE_OF_DATA</i> and currentByteSize attribute set to 0 and the AE having privileges to perform CREATE operation on the resource <i>PARENT_RESOURCE_ADDRESS</i> }</p> | |
| Expected behaviour | Test events | Direction |
| | <p>when { the IUT receives a valid CREATE Request from AE containing To set to <i>PARENT_RESOURCE_ADDRESS</i> and From set to <i>AE_ID</i> and Resource Type set to <i>RESOURCE_TYPE</i> and Content containing <i>RESOURCE_TYPE</i> resource containing valid content attribute with size equal to <i>DATA_SIZE</i> }</p> | IUT ← AE |
| | <p>then { the IUT increments currentByteSize attribute of <i>PARENT_RESOURCE_ADDRESS</i> resource by <i>DATA_SIZE</i> and the IUT sends a valid Response containing Response Status Code set to 2001 (CREATED) }</p> | IUT → AE |

| TP Id | PARENT_RESOURCE_TYPE | RESOURCE_TYPE |
|-----------------------------------|----------------------|---------------------------|
| TP/oneM2M/CSE/DMR/CRE/014_CNT/CIN | <i>container</i> | <i>contentInstance</i> |
| TP/oneM2M/CSE/DMR/CRE/014_TS/TSI | <i>timeSeries</i> | <i>timeSeriesInstance</i> |

TP/oneM2M/CSE/DMR/CRE/015

| | | |
|---------------------------|---|------------------|
| TP Id | TP/oneM2M/CSE/DMR/CRE/015 | |
| Test objective | Check that the IUT returns successfully after a CREATE request an empty content of created resource when the ResultContent set to 0 (Nothing) | |
| Reference | ETSI TS 118 101 [1], clause 8.1.2, clause 8.1.3 and clause 10.1.1.1, ETSI TS 118 104 [2], clause 6.3.4.2.7 | |
| Parent Release | PARENT_RELEASE | |
| Config Id | CF01 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE and the AE having privileges to perform CREATE operation on the resource AE_RESOURCE_ADDRESS } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid CREATE Request from AE containing To set to AE_RESOURCE_ADDRESS and From set to AE_ID and Resource Type set to RESOURCE_TYPE and Result Content set to 0 (nothing) and Content containing RESOURCE_TYPE resource representation } | IUT ← AE |
| | then { the IUT sends a valid Response containing Response Status Code set to 2001 (CREATED) and no Content } | IUT → AE |

| TP Id | PARENT_RELEASE | Reference | RESOURCE_TYPE |
|-------------------------------|----------------|---------------------------------------|-------------------------|
| TP/oneM2M/CSE/DMR/CRE/015_CNT | Release 2 | ETSI TS 118 101 [1], clause 10.2.4.1 | 3 (container) |
| TP/oneM2M/CSE/DMR/CRE/015_GRP | Release 2 | ETSI TS 118 101 [1], clause 10.2.7.2 | 9 (group) |
| TP/oneM2M/CSE/DMR/CRE/015_ACP | Release 2 | ETSI TS 118 101 [1], clause 10.2.21.1 | 1 (accessControlPolicy) |
| TP/oneM2M/CSE/DMR/CRE/015_SUB | Release 2 | ETSI TS 118 101 [1], clause 10.2.11.2 | 23 (subscription) |
| TP/oneM2M/CSE/DMR/CRE/015_PCH | Release 2 | ETSI TS 118 101 [1], clause 10.2.13.2 | 15 (pollingChannel) |

TP/oneM2M/CSE/DMR/CRE/016

| | | |
|---------------------------|---|------------------|
| TP Id | TP/oneM2M/CSE/DMR/CRE/016 | |
| Test objective | Check that the IUT returns successfully after a CREATE request only hierarchical address of the created resource when the Result Content is set to 2 (hierarchical address) | |
| Reference | ETSI TS 118 101 [1], clause 8.1.2, clause 8.1.3 and clause 10.1.1.1, ETSI TS 118 104 [2], clause 6.3.4.2.7 | |
| Parent Release | PARENT_RELEASE | |
| Config Id | CF01 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE and the AE having privileges to perform RETRIEVE operation on the resource AE_RESOURCE_ADDRESS } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid CREATE Request from AE containing To set to AE_RESOURCE_ADDRESS and From set to AE_ID and Resource Type set to RESOURCE_TYPE and Result Content set to 2 (hierarchical address) and Content containing RESOURCE_TYPE resource representation } | IUT ← AE |
| | then { the IUT sends a valid Response containing Response Status Code set to 2001 (CREATED) and Content containing Hierarchical address of the RESOURCE_TYPE resource } | IUT → AE |

| TP Id | PARENT_RELEASE | Reference | RESOURCE_TYPE |
|-------------------------------|----------------|---------------------------------------|-------------------------|
| TP/oneM2M/CSE/DMR/CRE/016_CNT | Release 2 | ETSI TS 118 101 [1], clause 10.2.4.1 | 3 (container) |
| TP/oneM2M/CSE/DMR/CRE/016_GRP | Release 2 | ETSI TS 118 101 [1], clause 10.2.7.2 | 9 (group) |
| TP/oneM2M/CSE/DMR/CRE/016_ACP | Release 2 | ETSI TS 118 101 [1], clause 10.2.21.1 | 1 (accessControlPolicy) |
| TP/oneM2M/CSE/DMR/CRE/016_SUB | Release 2 | ETSI TS 118 101 [1], clause 10.2.11.2 | 23 (subscription) |
| TP/oneM2M/CSE/DMR/CRE/016_PCH | Release 2 | ETSI TS 118 101 [1], clause 10.2.13.2 | 15 (pollingChannel) |

TP/oneM2M/CSE/DMR/CRE/017

| | | |
|---------------------------|--|------------------|
| TP Id | TP/oneM2M/CSE/DMR/CRE/017 | |
| Test objective | Check that the IUT returns successfully after a CREATE request only attributes and hierarchichal address of the created resource when Result Content is set 3 (attributes and hierarchichal address) | |
| Reference | ETSI TS 118 101 [1], clause 8.1.2, clause 8.1.3 and clause 10.1.1.1, ETSI TS 118 104 [2], clause 6.3.4.2.7 | |
| Parent Release | PARENT_RELEASE | |
| Config Id | CF01 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | <p>with { the IUT being in the "initial state" and the IUT having registered the AE and the AE having privileges to perform RETRIEVE operation on the resource AE_RESOURCE_ADDRESS }</p> | |
| Expected behaviour | Test events | Direction |
| | <p>when { the IUT receives a valid CREATE Request from AE containing To set to AE_RESOURCE_ADDRESS and From set to AE_ID and Resource Type set to RESOURCE_TYPE and Result Content set to 3 (attributes and hierarchichal address) and Content containing RESOURCE_TYPE resource representation }</p> | IUT ← AE |
| | <p>then { the IUT sends a valid Response containing Response Status Code set to 2001 (CREATED) and Content containing resource element containing Hierarchical address of the RESOURCE_TYPE resource and RESOURCE_TYPE resource representation }</p> | IUT → AE |

| TP Id | PARENT_RELEASE | Reference | RESOURCE_TYPE |
|-------------------------------|----------------|--------------------------------------|---------------|
| TP/oneM2M/CSE/DMR/CRE/017_CNT | Release 2 | ETSI TS 118 101 [1], clause 10.2.4.1 | 3 (container) |
| TP/oneM2M/CSE/DMR/CRE/017_GRP | Release 2 | ETSI TS 118 101 [1], clause 10.2.7.2 | 9 (group) |

| | | | |
|-------------------------------|-----------|---------------------------------------|-------------------------|
| TP/oneM2M/CSE/DMR/CRE/017_ACP | Release 2 | ETSI TS 118 101 [1], clause 10.2.21.1 | 1 (accessControlPolicy) |
| TP/oneM2M/CSE/DMR/CRE/017_SUB | Release 2 | ETSI TS 118 101 [1], clause 10.2.11.2 | 23 (subscription) |
| TP/oneM2M/CSE/DMR/CRE/017_PCH | Release 2 | ETSI TS 118 101 [1], clause 10.2.13.2 | 15 (pollingChannel) |

TP/oneM2M/CSE/DMR/CRE/018

| | | |
|---------------------------|--|------------------|
| TP Id | TP/oneM2M/CSE/DMR/CRE/018 | |
| Test objective | Check that the IUT rejects a CREATE request when the ResultContent is set to <i>RESULT_CONTENT</i> | |
| Reference | ETSI TS 118 101 [1], clause 8.1.2, ETSI TS 118 104 [2], clause 7.3.2.1 | |
| Parent Release | Release 2 | |
| Config Id | CF01 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE and the AE having privileges to perform CREATE operation on the resource AE_RESOURCE_ADDRESS } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid CREATE Request from AE containing To set to AE_RESOURCE_ADDRESS and From set to AE_ID and Result Content set to <i>RESULT_CONTENT</i> } | IUT ← AE |
| | then { the IUT sends a valid Response containing Response Status Code set to 4000 (BAD_REQUEST) } | IUT → AE |

| TP Id | Reference | RESULT_CONTENT |
|---------------------------------|---------------------------------------|---|
| TP/oneM2M/CSE/DMR/CRE/018_RCN/4 | ETSI TS 118 104 [2], clause 6.3.4.2.7 | 4 (attributes and child resources) |
| TP/oneM2M/CSE/DMR/CRE/018_RCN/5 | | 5 (attributes and child resources references) |
| TP/oneM2M/CSE/DMR/CRE/018_RCN/6 | | 6 (child resources references) |
| TP/oneM2M/CSE/DMR/CRE/018_RCN/8 | | 8 (child resources) |

TP/oneM2M/CSE/DMR/CRE/019

| | | |
|---------------------------|---|------------------|
| TP Id | TP/oneM2M/CSE/DMR/CRE/019 | |
| Test objective | Check that the IUT returns successfully only attributes of TARGET_RESOURCE_ADDRESS resource when the Result Content is set to 1 (attributes) | |
| Reference | ETSI TS 118 101 [1], clause 8.1.2, ETSI TS 118 104 [2], clause 6.3.3.2.7 | |
| Config Id | CF01 | |
| Parent Release | PARENT_RELEASE | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE and the IUT having created a resource TARGET_RESOURCE_ADDRESS of type RESOURCE_TYPE and the AE having privileges to perform CREATE operation on the resource TARGET_RESOURCE_ADDRESS } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid CREATE Request from AE containing To set to TARGET_RESOURCE_ADDRESS and From set to AE_ID and Result Content set to 1 (attributes) Content containing RESOURCE_TYPE resource representation } | IUT ← AE |
| | then { the IUT sends a valid Response containing Response Status Code set to 2001 (CREATED) and Content containing RESOURCE_TYPE resource containing attributes and no hierarchichal address and no child resources and no child resource references } | IUT → AE |

| TP Id | PARENT_RELEASE | RESOURCE_TYPE |
|-------------------------------|----------------|-------------------------|
| TP/oneM2M/CSE/DMR/CRE/019_CNT | Release 2 | 3 (container) |
| TP/oneM2M/CSE/DMR/CRE/019_GRP | Release 2 | 9 (group) |
| TP/oneM2M/CSE/DMR/CRE/019_ACP | Release 2 | 1 (accessControlPolicy) |
| TP/oneM2M/CSE/DMR/CRE/019_PCH | Release 2 | 15 (pollingChannel) |
| TP/oneM2M/CSE/DMR/CRE/019_SUB | Release 2 | 23 (subscription) |

TP/oneM2M/CSE/DMR/CRE/020

| | | |
|---------------------------|---|------------------|
| TP Id | TP/oneM2M/CSE/DMR/CRE/020 | |
| Test objective | Check that the IUT returns successfully only modified attributes of TARGET_RESOURCE_ADDRESS resource when the Result Content is set to 9 (modified attributes) | |
| Reference | ETSI TS 118 101 [1], clause 8.1.2, ETSI TS 118 104 [2], clause 6.3.3.2.7 | |
| Config Id | CF01 | |
| Parent Release | PARENT_RELEASE | |
| PICS Selection | PICS_CSE | |
| Initial conditions | <p>with { the IUT being in the "initial state" and the IUT having registered the AE and the IUT having created a resource TARGET_RESOURCE_ADDRESS of type RESOURCE_TYPE and the AE having privileges to perform CREATE operation on the resource TARGET_RESOURCE_ADDRESS }</p> | |
| Expected behaviour | Test events | Direction |
| | <p>when { the IUT receives a valid CREATE Request from AE containing To set to TARGET_RESOURCE_ADDRESS and From set to AE_ID and Result Content set to 1 (attributes) Content containing RESOURCE_TYPE resource representation }</p> | IUT ← AE |
| | <p>then { the IUT sends a valid Response containing Response Status Code set to 2001 (CREATED) and Content containing RESOURCE_TYPE resource containing modified attributes }</p> | IUT → AE |

| TP Id | PARENT_RELEASE | RESOURCE_TYPE |
|-------------------------------|----------------|-------------------------|
| TP/oneM2M/CSE/DMR/CRE/020_CNT | Release 2 | 3 (container) |
| TP/oneM2M/CSE/DMR/CRE/020_GRP | Release 2 | 9 (group) |
| TP/oneM2M/CSE/DMR/CRE/020_ACP | Release 2 | 1 (accessControlPolicy) |
| TP/oneM2M/CSE/DMR/CRE/020_PCH | Release 2 | 15 (pollingChannel) |
| TP/oneM2M/CSE/DMR/CRE/020_SUB | Release 2 | 23 (subscription) |

TP/oneM2M/CSE/DMR/CRE/021

| | | |
|---------------------------|---|------------------|
| TP Id | TP/oneM2M/CSE/DMR/CRE/021 | |
| Test objective | Check that the IUT accepts the creation of a <i>RESOURCE_TYPE</i> resource on the <i>TARGET_RESOURCE_ADDRESS</i> of type announced <i>PARENT_RESOURCE_TYPE</i> | |
| Reference | ETSI TS 118 101 [1], clause 9.6.5 | |
| Parent Release | Release 2 | |
| Config Id | CF04 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the CSE and the IUT having created the <i>PARENT_RESOURCE_TYPE</i> and the Originator having privileges to perform CREATE operation on the resource <i>PARENT_RESOURCE_ADDRESS</i> } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid CREATE Request from CSE containing Resource Type set to <i>RESOURCE_TYPE</i> and To set to <i>PARENT_RESOURCE_ADDRESS</i> and From set to CSE-ID and Content containing <i>RESOURCE_TYPE</i> resource containing no resourceName attribute } | IUT ← CSE |
| | then { the IUT creates the <i>RESOURCE_TYPE</i> resource and the IUT sends a valid Response containing Response Status Code set to 2001 (CREATED) and Content containing <i>RESOURCE_TYPE</i> resource containing Valid resourceName attribute } | IUT → CSE |

| TP Id | Reference | RESOURCE_TYPE | PARENT_RESOURCE_TYPE |
|------------------------------------|------------------------------------|---------------------------|----------------------|
| TP/oneM2M/CSE/DMR/CRE/021_CNTA/AEA | ETSI TS 118 101 [1], table 9.6.5-1 | (containerAnnc) | (AEannc) |
| TP/oneM2M/CSE/DMR/CRE/021_GRPAAEA | ETSI TS 118 101 [1], table 9.6.5-1 | (groupAnnc) | (AEannc) |
| TP/oneM2M/CSE/DMR/CRE/021_ACPAAEA | ETSI TS 118 101 [1], table 9.6.5-1 | (accessControlPolicyAnnc) | (AEannc) |
| TP/oneM2M/CSE/DMR/CRE/021_TSA/AEA | ETSI TS 118 101 [1], table 9.6.5-1 | (timeSeriesAnnc) | (AEannc) |

TP/oneM2M/CSE/DMR/CRE/023

| | | |
|---------------------------|---|------------------|
| TP Id | TP/oneM2M/CSE/DMR/CRE/023 | |
| Test objective | Check that the IUT accepts the creation of a <i>RESOURCE_TYPE</i> resource with the optional attribute announcedAttribute provided | |
| Reference | ETSI TS 118 101 [1], clause 10.2.18.4 and table 9.6.1.3.2-1, ETSI TS 118 104 [2], clause 7.3.3.10 | |
| Parent Release | Release 2 | |
| Config Id | CF02 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | <p>with {</p> <p>the IUT being in the "initial state"</p> <p>and the IUT having registered the AE</p> <p>and the IUT having created and announced the PARENT_RESOURCE to the announcement target CSE</p> <p>and the AE having privileges to perform CREATE operation on the resource PARENT_RESOURCE_ADDRESS</p> <p>}</p> | |
| Expected behaviour | Test events | Direction |
| | <p>when {</p> <p>the IUT receives a valid CREATE Request from AE containing</p> <p>To set to PARENT_RESOURCE_ADDRESS and</p> <p>From set to AE-ID and</p> <p>Content containing</p> <p style="padding-left: 40px;"><i>RESOURCE_TYPE</i> resource containing</p> <p style="padding-left: 80px;">OA_ATTRIBUTE attribute set to VALUE and</p> <p style="padding-left: 80px;">announcedAttribute attribute set to OA_ATTRIBUTE and</p> <p style="padding-left: 80px;">announceTo attribute set to</p> <p>ANNC_TARGET_CSE_ADDRESS</p> <p>}</p> <p>then {</p> <p>The IUT sends a valid CREATE Request containing</p> <p>To set to ANNC_TARGET_CSE_ADDRESS and</p> <p>Content containing</p> <p style="padding-left: 40px;"><i>RESOURCE_TYPE</i> announced variant resource containing</p> <p style="padding-left: 80px;">MA (mandatory) attributes and</p> <p style="padding-left: 80px;">OA_ATTRIBUTE attribute set to VALUE</p> <p>}</p> | IUT ← AE |
| | | IUT → CSE |

| TP Id | RESOURCE_TYPE | PICS |
|-------------------------------|---------------------|-----------------|
| TP/oneM2M/CSE/DMR/CRE/023_CNT | 3 (container) | PICS_IN_PROFILE |
| TP/oneM2M/CSE/DMR/CRE/023_CIN | 4 (contentInstance) | PICS_IN_PROFILE |
| TP/oneM2M/CSE/DMR/CRE/023_GRP | 9 (group) | |
| TP/oneM2M/CSE/DMR/CRE/023_LCP | 10 (locationPolicy) | |
| TP/oneM2M/CSE/DMR/CRE/023_MGO | 13 (mgmtObj) | |
| TP/oneM2M/CSE/DMR/CRE/023_NOD | 14 (node) | |

| | | |
|-------------------------------|-------------------------|--|
| TP/oneM2M/CSE/DMR/CRE/023_SCH | 18 (schedule) | |
| TP/oneM2M/CSE/DMR/CRE/023_TS | 29 (timeSeries) | |
| TP/oneM2M/CSE/DMR/CRE/023_TSI | 30 (timeSeriesInstance) | |

7.2.2.3.4 DELETE Operation

TP/oneM2M/CSE/DMR/DEL/001

| | | |
|---------------------------|--|------------------|
| TP Id | TP/oneM2M/CSE/DMR/DEL/001 | |
| Test objective | Check that the IUT accepts the deletion of a <i>RESOURCE_TYPE</i> resource | |
| Reference | ETSI TS 118 101 [1], clause 10.1.4 | |
| Config Id | CF01 | |
| Parent Release | PARENT_RELEASE | |
| PICS Selection | PICS_CSE | |
| Initial conditions | <p>with { the IUT being in the "initial state" and the IUT having registered the AE and the IUT having created a resource TARGET_RESOURCE_ADDRESS of type <i>RESOURCE_TYPE</i> and the AE having privileges to perform DELETE operation on the resource <i>TARGET_RESOURCE_ADDRESS</i> }</p> | |
| Expected behaviour | Test events | Direction |
| | <p>when { the IUT receives a valid DELETE Request from AE containing To set to TARGET_RESOURCE_ADDRESS and From set to AE_ID and no Content }</p> | IUT ← AE |
| | <p>then { the IUT deletes the TARGET_RESOURCE_ADDRESS resource and the IUT sends a valid Response containing Response Status Code set to 2002 (DELETED) }</p> | IUT → AE |

| TP Id | PARENT_RELEASE | Reference | RESOURCE_TYPE |
|-------------------------------|----------------|---------------------------------------|-------------------------|
| TP/oneM2M/CSE/DMR/DEL/001_CNT | Release 1 | ETSI TS 118 101 [1], clause 10.2.4.4 | 3 (container) |
| TP/oneM2M/CSE/DMR/DEL/001_ACP | Release 1 | ETSI TS 118 101 [1], clause 10.2.21.4 | 1 (accessControlPolicy) |
| TP/oneM2M/CSE/DMR/DEL/001_SUB | Release 1 | ETSI TS 118 101 [1], clause 10.2.11.5 | 23 (subscription) |

| | | | |
|--------------------------------|-----------|--|-------------------------|
| TP/oneM2M/CSE/DMR/DEL/001_CIN | Release 1 | ETSI TS 118 101 [1], clause 10.2.4.1 | 4 (contentInstance) |
| TP/oneM2M/CSE/DMR/DEL/001_GRP | Release 1 | ETSI TS 118 101 [1], clause 10.2.7.5 | 9 (group) |
| TP/oneM2M/CSE/DMR/DEL/001_SCH | Release 2 | ETSI TS 118 101 [1], clause 10.2.40.2 | 18 (schedule) |
| TP/oneM2M/CSE/DMR/DEL/001_PCH | Release 2 | ETSI TS 118 101 [1], clause 10.2.13.5 | 15 (pollingChannel) |
| TP/oneM2M/CSE/DMR/DEL/001_STCG | Release 2 | ETSI TS 118 101 [1], clause 10.2.15.5 | 22 (statsConfig) |
| TP/oneM2M/CSE/DMR/DEL/001_TS | Release 2 | ETSI TS 118 101 [1], clause 10.2.30.4 | 29 (timeSeries) |
| TP/oneM2M/CSE/DMR/DEL/001_TSI | Release 2 | ETSI TS 118 101 [1], clause 10.2.31.4 | 30 (timeSeriesInstance) |

TP/oneM2M/CSE/DMR/DEL/003

| | | |
|---------------------------|---|------------------|
| TP Id | TP/oneM2M/CSE/DMR/DEL/003 | |
| Test objective | Check that the IUT responds with an error when the AE tries to delete the resource TARGET_RESOURCE_ADDRESS which does not exist | |
| Reference | ETSI TS 118 101 [1], clause 10.1.4 | |
| Config Id | CF01 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE and the IUT having not yet created a resource TARGET_RESOURCE_ADDRESS } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid DELETE Request from AE containing To set to TARGET_RESOURCE_ADDRESS and From set to AE_ID and no Content } | IUT ← AE |
| | then { the IUT does not delete the TARGET_RESOURCE_ADDRESS resource and the IUT sends a valid Response containing Response Status Code set to 4004 (NOT_FOUND) } | IUT → AE |

TP/oneM2M/CSE/DMR/DEL/004

| | | |
|---------------------------|---|------------------|
| TP Id | TP/oneM2M/CSE/DMR/DEL/004 | |
| Test objective | Check that the IUT responds with an error when AE tries to delete a child resource of a <i>RESOURCE_TYPE</i> resource when this resource has been already deleted | |
| Reference | ETSI TS 118 101 [1], clause 10.1.4 | |
| Config Id | CF01 | |
| Parent Release | <i>PARENT_RELEASE</i> | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE and the IUT having created a resource <i>TARGET_RESOURCE_ADDRESS</i> of type <i>RESOURCE_TYPE</i> containing a child resource and the AE having privileges to perform DELETE operation on the resource <i>TARGET_RESOURCE_ADDRESS</i> and the AE having deleted the <i>TARGET_RESOURCE_ADDRESS</i> resource } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid DELETE Request from AE containing To set to <i>TARGET_CHILD_RESOURCE_ADDRESS</i> and From set to <i>AE_ID</i> and no Content } | IUT ← AE |
| | then { the IUT sends a valid Response containing Response Status Code set to 4004 (NOT_FOUND) } | IUT → AE |

| TP Id | PARENT_RELEASE | Reference | RESOURCE_TYPE |
|--------------------------------|----------------|---------------------------------------|-------------------------|
| TP/oneM2M/CSE/DMR/DEL/004_CNT | Release 1 | ETSI TS 118 101 [1], clause 10.2.4.4 | 3 (container) |
| TP/oneM2M/CSE/DMR/DEL/004_ACP | Release 1 | ETSI TS 118 101 [1], clause 10.2.21.4 | 1 (accessControlPolicy) |
| TP/oneM2M/CSE/DMR/DEL/004_SUB | Release 1 | ETSI TS 118 101 [1], clause 10.2.11.5 | 23 (subscription) |
| TP/oneM2M/CSE/DMR/DEL/004_GRP | Release 1 | ETSI TS 118 101 [1], clause 10.2.7.5 | 9 (group) |
| TP/oneM2M/CSE/DMR/DEL/004_SCH | Release 2 | ETSI TS 118 101 [1], clause 10.2.40.2 | 18 (schedule) |
| TP/oneM2M/CSE/DMR/DEL/004_STCG | Release 2 | ETSI TS 118 101 [1], clause 10.2.15.5 | 22 (statsConfig) |

TP/oneM2M/CSE/DMR/DEL/006

| | | |
|---------------------------|--|------------------|
| TP Id | TP/oneM2M/CSE/DMR/DEL/006 | |
| Test objective | Check that the IUT decreases the field value of attribute currentNrOfInstances and currentByteSize of parent <i>RESOURCE_TYPE</i> when a latest <i>RESOURCE_TYPE</i> resource is deleted successfully | |
| Reference | ETSI TS 118 101 [1], clause 10.2.19.5, ETSI TS 118 104 [2], clause 7.4.8.2.4 | |
| Config Id | CF01 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE and the IUT having created a <i>PARENT_RESOURCE_TYPE</i> resource containing currentNrOfInstances attribute set to NR_OF_INSTANCES and currentByteSize attribute set to BYTE_SIZE_OF_DATA and a <i>RESOURCE_TYPE</i> resource TARGET_RESOURCE_ADDRESS and the AE having privileges to perform DELETE operation on the resource TARGET_RESOURCE_ADDRESS } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid DELETE Request from AE containing To set to TARGET_RESOURCE_ADDRESS and From set to AE_ID and no Content } | IUT ← AE |
| | then { the IUT decreases the currentNrOfInstances attribute of <i>PARENT_RESOURCE_TYPE</i> resource and the IUT decreases the currentByteSize attribute of <i>PARENT_RESOURCE_TYPE</i> resource and the IUT sends a valid Response containing Response Status Code set to 2002 (DELETED) } | IUT → AE |

| TP Id | PARENT_RELEASE | Reference | RESOURCE_TYPE | PARENT_RESOURCE_TYPE |
|-----------------------------------|----------------|---------------------------------------|-------------------------|----------------------|
| TP/oneM2M/CSE/DMR/DEL/006_CNT/CIN | Release 1 | ETSI TS 118 101 [1], clause 10.2.4.4 | 4 (contentInstance) | 3 (container) |
| TP/oneM2M/CSE/DMR/DEL/006_TS/TSI | Release 2 | ETSI TS 118 101 [1], clause 10.2.30.4 | 30 (timeSeriesInstance) | 29 (timeSeries) |

TP/oneM2M/CSE/DMR/DEL/007

| TP Id | TP/oneM2M/CSE/DMR/DEL/007 | |
|---------------------------|---|------------------|
| Test objective | Check that the IUT accepts the DELETE Request of the latest contentInstance resource target to a container resource | |
| Reference | ETSI TS 118 101 [1], clause 10.2.22.2, ETSI TS 118 104 [2], clause 7.4.28.2.5 | |
| Config Id | CF01 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE and the IUT having created a container resource containing CONTENT_INSTANCE_1 contentInstance resource and CONTENT_INSTANCE_2 contentInstance resource and the AE having privileges to perform DELETE operation on the container resource and creationTime attribute of CONTENT_INSTANCE_1 < creationTime attribute of CONTENT_INSTANCE_2 } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid DELETE Request from AE containing To set to CONTAINER_RESOURCE_ADDRESS/la and From set to AE_ID and no Content } | IUT ← AE |
| | then { the IUT deletes the CONTENT_INSTANCE_2_RESOURCE_ADDRESS resource and the IUT sends a valid Response containing Response Status Code set to 2002 (DELETED) } | IUT → AE |

TP/oneM2M/CSE/DMR/DEL/008

| | | |
|---------------------------|---|------------------|
| TP Id | TP/oneM2M/CSE/DMR/DEL/008 | |
| Test objective | Check that the IUT rejects the DELETE request of a latest resource in a container resource that has no direct child contentInstance resources. | |
| Reference | ETSI TS 118 101 [1], clause 10.2.22.2, ETSI TS 118 104 [2], clause 7.4.28.2.5 | |
| Config Id | CF01 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE containing a container resource containing no contentInstance resources } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid DELETE Request from AE containing To set to CONTAINER_RESOURCE_ADDRESS/la and From set to AE_ID and no Content } | IUT ← AE |
| | then { the IUT sends a valid Response containing Response Status Code set to 4004 (NOT_FOUND) } | IUT → AE |

TP/oneM2M/CSE/DMR/DEL/009

| | | |
|---------------------------|---|------------------|
| TP Id | TP/oneM2M/CSE/DMR/DEL/009 | |
| Test objective | Check that the IUT accepts the DELETE Request of the oldest contentInstance resource target to a container resource | |
| Reference | ETSI TS 118 101 [1], clause 10.2.23.2, ETSI TS 118 104 [2], clause 7.4.29.2.5 | |
| Config Id | CF01 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | <p>with { the IUT being in the "initial state" and the IUT having registered the AE and the IUT having created a container resource containing CONTENT_INSTANCE_1 contentInstance resource and CONTENT_INSTANCE_2 contentInstance resource and the AE having privileges to perform DELETE operation on the container resource and creationTime attribute of CONTENT_INSTANCE_1 < creationTime attribute of CONTENT_INSTANCE_2 }</p> | |
| Expected behaviour | Test events | Direction |
| | <p>when { the IUT receives a valid DELETE Request from AE containing To set to TARGET_RESOURCE_ADDRESS and From set to AE_ID and no Content }</p> | IUT ← AE |
| | <p>then { the IUT deletes the CONTENT_INSTANCE_1_RESOURCE_ADDRESS resource and the IUT sends a valid Response containing Response Status Code set to 2002 (DELETED) }</p> | IUT → AE |

TP/oneM2M/CSE/DMR/DEL/010

| | | |
|---------------------------|---|------------------|
| TP Id | TP/oneM2M/CSE/DMR/DEL/010 | |
| Test objective | Check that the IUT rejects the DELETE request of an oldest resource in a container resource that has no direct child contentInstance resources. | |
| Reference | ETSI TS 118 101 [1], clause 10.2.23.2, ETSI TS 118 104 [2], clause 7.4.29.2.5 | |
| Config Id | CF01 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE containing a container resource containing no contentInstance resources } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid RETRIEVE Request from AE containing To set to CONTAINER_RESOURCE_ADDRESS/ol and From set to AE_ID and no Content } | IUT ← AE |
| | then { the IUT sends a valid Response containing Response Status Code set to 4004 (NOT_FOUND) } | IUT → AE |

TP/oneM2M/CSE/DMR/DEL/011

| | | |
|---------------------------|---|------------------|
| TP Id | TP/oneM2M/CSE/DMR/DEL/011 | |
| Test objective | Check that the IUT rejects a DELETE Request target to TARGET_RESOURCE_ADDRESS resource when the Result Content set to <i>RESULT_CONTENT</i> | |
| Reference | ETSI TS 118 101 [1], clause 8.1.2, ETSI TS 118 104 [2], clause 7.3.2.1 | |
| Config Id | CF01 | |
| Parent Release | Release 2 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE and the IUT having created a resource TARGET_RESOURCE_ADDRESS of type RESOURCE_TYPE and the AE having privileges to perform DELETE operation on the resource TARGET_RESOURCE_ADDRESS } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid DELETE Request from AE containing To set to TARGET_RESOURCE_ADDRESS and From set to AE_ID and Result Content set to <i>RESULT_CONTENT</i> no Content } | IUT ← AE |
| | then { the IUT sends a valid Response containing Response Status Code set to 4000 (BAD_REQUEST) and no Content } | IUT → AE |

| TP Id | Reference | RESULT_CONTENT |
|---------------------------------|--|--|
| TP/oneM2M/CSE/DMR/DEL/011_RCN/2 | ETSI TS 118 104 [2], clause 6.3.4.2.7 | 2 (hierarchical address) |
| TP/oneM2M/CSE/DMR/DEL/011_RCN/3 | | 3 (attributes and hierarchichal address) |
| TP/oneM2M/CSE/DMR/DEL/011_RCN/4 | | 4 (attributes and child resources) |
| TP/oneM2M/CSE/DMR/DEL/011_RCN/5 | | 5 (attributes and child resource references) |
| TP/oneM2M/CSE/DMR/DEL/011_RCN/6 | | 6 (child resource references) |
| TP/oneM2M/CSE/DMR/DEL/011_RCN/7 | | 7 (original resource) |
| TP/oneM2M/CSE/DMR/DEL/011_RCN/8 | | 8 (child resources) |
| TP/oneM2M/CSE/DMR/DEL/011_RCN/9 | | 9 (modified attributes) |

TP/oneM2M/CSE/DMR/DEL/012

| | | |
|---------------------------|--|---------------------------------|
| TP Id | TP/oneM2M/CSE/DMR/DEL/012 | |
| Test objective | Check that the IUT returns nothing of TARGET_RESOURCE_ADDRESS resource when the Result Content is set to 0 (nothing) | |
| Reference | ETSI TS 118 101 [1], clause 8.1.2, ETSI TS 118 104 [2], clause 6.3.3.2.7 | |
| Config Id | CF01 | |
| Parent Release | PARENT_RELEASE | |
| PICS Selection | PICS_CSE | |
| Initial conditions | <p>with { the IUT being in the "initial state" and the IUT having registered the AE and the IUT having created a resource TARGET_RESOURCE_ADDRESS of type RESOURCE_TYPE containing a child resource and the AE having privileges to perform DELETE operation on the resource TARGET_RESOURCE_ADDRESS }</p> | |
| Expected behaviour | Test events | Direction |
| | <p>when { the IUT receives a valid DELETE Request from AE containing To set to TARGET_RESOURCE_ADDRESS and From set to AE_ID and Result Content set to 0 (nothing) no Content }</p> <p>then { the IUT sends a valid Response containing Response Status Code set to 2002 (DELETED) and no Content }</p> | <p>IUT ← AE</p> <p>IUT → AE</p> |

| TP Id | PARENT_RELEASE | RESOURCE_TYPE |
|-------------------------------|----------------|-------------------------|
| TP/oneM2M/CSE/DMR/DEL/012_CNT | Release 2 | 3 (container) |
| TP/oneM2M/CSE/DMR/DEL/012_GRP | Release 2 | 9 (group) |
| TP/oneM2M/CSE/DMR/DEL/012_ACP | Release 2 | 1 (accessControlPolicy) |

TP/oneM2M/CSE/DMR/DEL/013

| | | |
|---------------------------|--|------------------|
| TP Id | TP/oneM2M/CSE/DMR/DEL/013 | |
| Test objective | Check that the IUT returns successfully only attributes of TARGET_RESOURCE_ADDRESS resource when the Result Content is set to 1 (attributes) | |
| Reference | ETSI TS 118 101 [1], clause 8.1.2, ETSI TS 118 104 [2], clause 6.3.3.2.7 | |
| Config Id | CF01 | |
| Parent Release | PARENT_RELEASE | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE and the IUT having created a resource TARGET_RESOURCE_ADDRESS of type <i>RESOURCE_TYPE</i> containing a child resource and the AE having privileges to perform DELETE operation on the resource TARGET_RESOURCE_ADDRESS } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid DELETE Request from AE containing To set to TARGET_RESOURCE_ADDRESS and From set to AE_ID and Result Content set to 1 (attributes) no Content } | IUT ← AE |
| | then { the IUT sends a valid Response containing Response Status Code set to 2002 (DELETED) and Content containing <i>RESOURCE_TYPE</i> resource containing attributes and no hierarchichal address and no child resources and no child resource references } | IUT → AE |

| TP Id | PARENT_RELEASE | RESOURCE_TYPE |
|-------------------------------|----------------|-------------------------|
| TP/oneM2M/CSE/DMR/DEL/013_CNT | Release 2 | 3 (container) |
| TP/oneM2M/CSE/DMR/DEL/013_GRP | Release 2 | 9 (group) |
| TP/oneM2M/CSE/DMR/DEL/013_ACP | Release 2 | 1 (accessControlPolicy) |

TP/oneM2M/CSE/DMR/002

| | | |
|---------------------------|--|------------------|
| TP Id | TP/oneM2M/CSE/DMR/002 | |
| Test objective | Check that the IUT retargets the response from the hosting CSE after retargeting an OPERATION Request | |
| Reference | ETSI TS 118 101 [1], clause 8.2.1.1 | |
| Config Id | CF02 | |
| Parent Release | Release 2 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | <p>with { the IUT being in the "initial state" and the IUT having registered to the Hosting CSE and the IUT having registered the AE and the Hosting CSE containing a resource representation on TARGET_RESOURCE_ADDRESS and the AE having privileges to perform OPERATION on the Hosting CSE and the IUT having received a valid OPERATION Request from the AE containing To set to TARGET_RESOURCE_ADDRESS and From set to AE_ID and the IUT sends the OPERATION Request to the Hosting CSE }</p> | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid OPERATION Response from the Hosting CSE } | IUT ← CSE |
| | then { the IUT sends a valid Response to the AE } | IUT → AE |

| TP Id | OPERATION |
|---------------------------|-----------|
| TP/oneM2M/CSE/DMR/002_CRE | CREATE |
| TP/oneM2M/CSE/DMR/002_RET | RETRIEVE |
| TP/oneM2M/CSE/DMR/002_UPD | UPDATE |
| TP/oneM2M/CSE/DMR/002_DEL | DELETE |

7.2.2.4 Subscription and Notification (SUB)

7.2.2.4.1 CREATE Operation

TP/oneM2M/CSE/SUB/CRE/001

| | | |
|---------------------------|---|------------------|
| TP Id | TP/oneM2M/CSE/SUB/CRE/001 | |
| Test objective | Check that the IUT rejects the creation of the <subscription> resource when the target subscribed-to <i>RESOURCE_TYPE</i> resource is not subscribable. | |
| Reference | ETSI TS 118 101 [1], clause 10.2.11.2, ETSI TS 118 104 [2], clause 7.4.8.2.1 | |
| Config Id | CF01 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having a resource PARENT_RESOURCE_ADDRESS allowing the AE to perform CREATE operation and the IUT having a resource PARENT_RESOURCE_ADDRESS not being subscribable <i>RESOURCE_TYPE</i> resource } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid CREATE Request from AE containing To set to PARENT_RESOURCE_ADDRESS and Resource Type set to 23 (subscription) and From set to AE-ID and Content containing subscription resource representation } | IUT ← AE |
| | then { the IUT does not create the subscription resource and the IUT sends a valid Response containing Response Status Code set to 5203 (TARGET_NOT_SUBSCRIBABLE) and no Content } | IUT → AE |

| TP Id | Reference | RESOURCE_TYPE |
|-------------------------------|------------------------------------|-------------------------|
| TP/oneM2M/CSE/SUB/CRE/001_CIN | ETSI TS 118 101 [1], clause 9.6.7 | 4 (contentInstance) |
| TP/oneM2M/CSE/SUB/CRE/001_SUB | ETSI TS 118 101 [1], clause 9.6.8 | 23 (subscription) |
| TP/oneM2M/CSE/SUB/CRE/001_TSI | ETSI TS 118 101 [1], clause 9.6.37 | 30 (timeSeriesInstance) |

TP/oneM2M/CSE/SUB/CRE/002

| | | |
|---------------------------|--|------------------|
| TP Id | TP/oneM2M/CSE/SUB/CRE/002 | |
| Test objective | Check that the IUT rejects the creation of the <subscription> resource when the originator does not have privileges for retrieving the subscribed-to resource. | |
| Reference | ETSI TS 118 101 [1], clause 10.2.11.2, ETSI TS 118 104 [2], clause 7.4.8.2.1 | |
| Config Id | CF01 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having a resource PARENT_RESOURCE_ADDRESS containing accessControlPolicyIDs attribute pointing to accessControlPolicy resource containing privileges attribute containing accessControlRule attribute containing accessControlOriginators attribute indicating AE-ID and accessControlOperations attribute not indicating RETRIEVE } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid CREATE Request from AE containing To set to PARENT_RESOURCE_ADDRESS and Resource Type set to 23 (subscription) and From set to AE-ID and Content containing subscription resource representation } | IUT ← AE |
| | then { the IUT does not create the subscription resource and the IUT sends a valid Response containing Response Status Code set to 4103 (ORIGINATOR_HAS_NO_PRIVILEGE) and no Content } | IUT → AE |

TP/oneM2M/CSE/SUB/CRE/003

| | | |
|---------------------------|--|------------------|
| TP Id | TP/oneM2M/CSE/SUB/CRE/003 | |
| Test objective | Check that the IUT rejects the creation of the <subscription> resource when the notificationURI is not the originator and the IUT cannot send the Notify request to the notificationURI | |
| Reference | ETSI TS 118 101 [1], clause 10.2.11.2, ETSI TS 118 104 [2], clause 7.4.8.2.1 | |
| Config Id | CF01 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having a resource PARENT_RESOURCE_ADDRESS allowing the AE to perform CREATE operation and the IUT not being able to send the NOTIFY Request to the NOTI_URI_ADDRESS containing verificationRequest set to TRUE } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid CREATE Request from AE containing To set to PARENT_RESOURCE_ADDRESS and Resource Type set to 23 (subscription) and From set to AE-ID and Content containing subscription resource containing notificationURI attribute set to NOTI_URI_ADDRESS } | IUT ← AE |
| | then { the IUT does not create the subscription resource and the IUT sends a valid Response containing Response Status Code set to 5204 (SUBSCRIPTION_VERIFICATION_INITIATION_FAILED) and no Content } | IUT → AE |

TP/oneM2M/CSE/SUB/CRE/004

| | | |
|---------------------------|--|------------------|
| TP Id | TP/oneM2M/CSE/SUB/CRE/004 | |
| Test objective | Check that the IUT stores Originator ID in the notification creator attribute when a <SUBSCRIPTION> creation request which needs verification is received and the notificationURI is not the Originator. | |
| Reference | ETSI TS 118 101 [1], clause 10.2.12.1, ETSI TS 118 104 [2], clause 7.4.9.2.1 | |
| Config Id | CF01 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE1 and the IUT having registered the AE2 and the AE1 having created a <subscribed-to type> and the AE1 having privileges to perform RETRIEVE operation on the subscribed-to resource } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid CREATE Request from AE1 containing To set to SUBSCRIBED_TO_RESOURCE_ADDRESS and From set to AE1_RESOURCE_ADDRESS and Resource Type set to 23 (subscription) and Content containing subscription resource containing notificationURI attribute set to AE2_RESOURCE_ADDRESS } | IUT ← AE1 |
| | then { the IUT sends a valid NOTIFY Request containing Content containing notification message containing verificationRequest attribute set to TRUE and creator attribute set to AE1_RESOURCE_ADDRESS } | IUT → AE2 |

TP/oneM2M/CSE/SUB/CRE/005

| | | |
|---------------------------|--|------------------------|
| TP Id | TP/oneM2M/CSE/SUB/CRE/005 | |
| Test objective | Check that the IUT sends a Notify request to the subscriber resource when notificationEventType attribute is set to "Create_of_Direct_Child_Resource" and a create operation has been performed on the subscribed-to resource | |
| Reference | ETSI TS 118 101 [1], table 9.6.8-3 | |
| Config Id | CF01 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | <p>with { the IUT being in the "initial state" and the IUT having registered the AE1 and the IUT having registered the AE2 and the AE1 having created a <subscribed-to type> resource containing subscription child resource containing notificationURI attribute set to AE2_RESOURCE_ADDRESS and eventNotificationCriteria attribute containing notificationEventType set to 3 (Create_of_Direct_Child_Resource) and the AE1 having privileges to perform RETRIEVE operation on the subscribed-to resource }</p> | |
| Expected behaviour | Test events | Direction |
| | <p>when { the IUT receives a valid CREATE Request from AE1 containing To set to SUBSCRIBED_TO_RESOURCE_ADDRESS and From set to AE1_RESOURCE_ADDRESS and Content containing CHILD_RESOURCE_TYPE resource containing resourceName attribute set to NAME }</p> | IUT ← AE1 |
| | <p>then { the IUT sends a valid Response containing Response Status Code set to 2001 (CREATED) and the IUT sends a NOTIFY Request containing Content containing Notification message containing notificationEvent attribute containing representation attribute containing CHILD_RESOURCE_TYPE resource containing All attributes }</p> | IUT → AE1 IUT → AE2 |

TP/oneM2M/CSE/SUB/CRE/006

| | | |
|---------------------------|--|------------------|
| TP Id | TP/oneM2M/CSE/DMR/CRE/006 | |
| Test objective | Check that the IUT accepts the creation of a <i>subscription</i> resource with the <i>eventNotificationCriteria</i> attribute which includes a <i>CONDITION_TAG</i> condition provided | |
| Reference | ETSI TS 118 101 [1], clause 9.6.8 | |
| Config Id | CF01 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE and the Originator having privileges to perform CREATE operation on the resource TARGET_RESOURCE_ADDRESS } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid CREATE Request from AE containing Resource Type set to <i>subscription</i> and To set to TARGET_RESOURCE_ADDRESS and From set to AE-ID and Content containing <i>subscription</i> resource containing <i>eventNotificationCriteria</i> attribute containing valid <i>CONDITION_TAG</i> condition } | IUT ← AE |
| | then { the IUT creates the <i>subscription</i> resource and the IUT sends a valid Response containing Response Status Code set to 2001 (CREATED) } | IUT → AE |

| TP Id | Reference | CONDITION_TAG |
|-------------------------------|--------------------------------------|----------------------|
| TP/oneM2M/CSE/SUB/CRE/006_CRB | ETSI TS 118 101 [1], clause 9.6.8 | createdBefore |
| TP/oneM2M/CSE/SUB/CRE/006_CRA | ETSI TS 118 101 [1], clause 9.6.8 | createdAfter |
| TP/oneM2M/CSE/SUB/CRE/006_MS | ETSI TS 118 101 [1], clause 9.6.8 | modifiedSince |
| TP/oneM2M/CSE/SUB/CRE/006_US | ETSI TS 118 101 [1], clause 9.6.8 | unmodifiedSince |
| TP/oneM2M/CSE/SUB/CRE/006_STS | ETSI TS 118 101 [1], clause 9.6.8 | stateTagSmaller |
| TP/oneM2M/CSE/SUB/CRE/006_STB | ETSI TS 118 101 [1], clause 9.6.8 | stateTagBigger |

| TP Id | Reference | CONDITION_TAG |
|-------------------------------|--------------------------------------|----------------------|
| TP/oneM2M/CSE/SUB/CRE/006_EXB | ETSI TS 118 101 [1], clause 9.6.8 | expireBefore |
| TP/oneM2M/CSE/SUB/CRE/006_EXA | ETSI TS 118 101 [1], clause 9.6.8 | expireAfter |
| TP/oneM2M/CSE/SUB/CRE/006_SZA | ETSI TS 118 101 [1], clause 9.6.8 | sizeAbove |
| TP/oneM2M/CSE/SUB/CRE/006_SZB | ETSI TS 118 101 [1], clause 9.6.8 | sizeBelow |
| TP/oneM2M/CSE/SUB/CRE/006_ET | ETSI TS 118 101 [1], clause 9.6.8 | eventType |
| TP/oneM2M/CSE/SUB/CRE/006_OM | ETSI TS 118 101 [1], clause 9.6.8 | operationMonitor |
| TP/oneM2M/CSE/SUB/CRE/006_ATR | ETSI TS 118 101 [1], clause 9.6.8 | attribute |

7.2.2.4.2 DELETE Operation

TP/oneM2M/CSE/SUB/DEL/001

| | | |
|---------------------------|--|----------------------------|
| TP Id | TP/oneM2M/CSE/SUB/DEL/001 | |
| Test objective | Check that the IUT sends a Notify request to the AE2_RESOURCE_ADDRESS of the subscriberURI attribute when the SUBSCRIPTION_RESOURCE_ADDRESS <subscription> resource is deleted | |
| Reference | ETSI TS 118 101 [1], clause 9.6.8, ETSI TS 118 104 [2], clause 7.5.1.2.4 | |
| Config Id | CF01 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | <p>with { the IUT being in the "initial state" and the IUT having registered the AE1 and the IUT having registered the AE2 and the AE1 having created a <subscribed-to type> resource containing subscription resource containing subscriberURI attribute set to AE2_RESOURCE_ADDRESS and the AE1 having privileges to perform RETRIEVE operation on the subscribed-to resource }</p> | |
| Expected behaviour | Test events | Direction |
| | <p>when { the IUT receives a valid DELETE Request from AE1 containing To set to SUBSCRIPTION_RESOURCE_ADDRESS and From set to AE1_RESOURCE_ADDRESS }</p> | IUT ← AE1 |
| | <p>then { the IUT sends a valid Response containing Response Status Code set to 2002 (DELETED) and the IUT sends a NOTIFY Request containing Content containing notification message containing subscriptionDeletion attribute set to TRUE and subscriptionReference attribute set to AE2_RESOURCE_ADDRESS }</p> | IUT → AE1 IUT → AE2 |

TP/oneM2M/CSE/SUB/DEL/002

| | | |
|---------------------------|--|------------------------|
| TP Id | TP/oneM2M/CSE/SUB/DEL/002 | |
| Test objective | Check that the IUT sends a Notify request to the subscriber resource when eventNotificationCriteria/notificationEventType attribute is set to "Delete_of_Resource" and an delete operation has been performed the subscribed-to resource | |
| Reference | ETSI TS 118 101 [1], table 9.6.8-3 | |
| Config Id | CF01 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE1 and the IUT having registered the AE2 and the AE1 having created a <subscribed-to type> resource containing subscription child resource containing notificationURI attribute set to AE2_RESOURCE_ADDRESS and eventNotificationCriteria attribute containing notificationEventType set to 2 (Delete_of_Resource) and the AE1 having privileges to perform RETRIEVE operation on the subscribed-to resource } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid DELETE Request from AE1 containing To set to SUBSCRIBED_TO_RESOURCE_ADDRESS and From set to AE1_RESOURCE_ADDRESS } | IUT ← AE1 |
| | then { the IUT sends a valid Response containing Response Status Code set to 2002 (DELETED) and the IUT sends a NOTIFY Request containing Content containing notification message containing notificationEvent attribute containing a valid representation attribute } | IUT → AE1 IUT → AE2 |

TP/oneM2M/CSE/SUB/DEL/003

| | | |
|---------------------------|--|-----------------------------------|
| TP Id | TP/oneM2M/CSE/SUB/DEL/003 | |
| Test objective | Check that the IUT sends a Notify request to the subscriber resource when eventNotificationCriteria/notificationEventType attribute is set to "Delete_of_Direct_Child_Resource" and an delete operation has been performed on a child resource of the subscribed-to resource | |
| Reference | ETSI TS 118 101 [1], table 9.6.8-3 | |
| Config Id | CF01 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | <p>with {</p> <p>the IUT being in the "initial state"</p> <p>and the IUT having registered the AE1</p> <p>and the IUT having registered the AE2</p> <p>and the AE1 having created a <subscribed-to type> resource containing</p> <p>a CHILD_RESOURCE_ADDRESS child resource and</p> <p>subscription child resource containing</p> <p>notificationURI attribute set to AE2_RESOURCE_ADDRESS and</p> <p>eventNotificationCriteria attribute containing</p> <p>notificationEventType set to 4 (Delete_of_Direct_Child_Resource)</p> <p>and the AE1 having privileges to perform RETRIEVE operation on the subscribed-to resource</p> <p>}</p> | |
| Expected behaviour | Test events | Direction |
| | <p>when {</p> <p>the IUT receives a valid DELETE Request from AE1 containing</p> <p>To set to CHILD_RESOURCE_ADDRESS and</p> <p>From set to AE1_RESOURCE_ADDRESS</p> <p>}</p> | IUT ← AE1 |
| | <p>then {</p> <p>the IUT sends a valid Response containing</p> <p>Response Status Code set to 2002 (DELETED)</p> <p>and the IUT sends a NOTIFY Request contaning</p> <p>Content containing</p> <p>notification message containing</p> <p>notificationEvent attribute containing</p> <p>representation attribute containing</p> <p>CHILD_RESOURCE_TYPE resource}</p> | <p>IUT → AE1</p> <p>IUT → AE2</p> |

TP/oneM2M/CSE/SUB/UPD/002

| | | |
|---------------------------|---|------------------------|
| TP Id | TP/oneM2M/CSE/SUB/UPD/002 | |
| Test objective | Check that the IUT sends a Notify request to the subscriber resource when the notificationContentType attribute is set to "modified attributes" and an update operation has been performed on the subscribed-to resource | |
| Reference | ETSI TS 118 101 [1], clause 10.2.11.2, ETSI TS 118 104 [2], clause 7.5.1.2.2 | |
| Config Id | CF01 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE1 and the IUT having registered the AE2 and the AE1 having created a <subscribed-to type> resource containing ATTRIBUTE_NAME set to VALUE_1 and subscription child resource containing notificationURI attribute set to AE2_RESOURCE_ADDRESS and notificationContentType attribute set to 2 (modified attributes) and the AE1 having privileges to perform RETRIEVE operation on the subscribed-to resource } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid UPDATE Request from AE1 containing To set to SUBSCRIBED_TO_RESOURCE_ADDRESS and From set to AE1_RESOURCE_ADDRESS and Content containing <subscribed-to type> resource containing ATTRIBUTE_NAME attribute set to VALUE_2 } | IUT ← AE1 |
| | then { the IUT sends a valid Response containing Response Status Code set to 2004 (UPDATED) and the IUT sends a NOTIFY Request containing Content containing notification message containing notificationEvent attribute containing representation attribute containing <subscribed-to type> resource containing ATTRIBUTE_NAME attribute set to VALUE_2 } | IUT → AE1 IUT → AE2 |

TP/oneM2M/CSE/SUB/UPD/003

| | | |
|---------------------------|--|------------------------|
| TP Id | TP/oneM2M/CSE/SUB/UPD/003 | |
| Test objective | Check that the IUT sends a Notify request to the subscriber resource when the notificationContentType attribute is set to "ResourceID" and an update operation has been performed on the subscribed-to resource | |
| Reference | ETSI TS 118 101 [1], clause 10.2.11.2, ETSI TS 118 104 [2], clause 7.5.1.2.2 | |
| Config Id | CF01 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE1 and the IUT having registered the AE2 and the AE1 having created a <subscribed-to type> resource containing ATTRIBUTE_NAME set to VALUE_1 and subscription child resource containing notificationURI attribute set to AE2_RESOURCE_ADDRESS and notificationContentType attribute set to 3 (ResourceID) and the AE1 having privileges to perform RETRIEVE operation on the subscribed-to resource } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid UPDATE Request from AE1 containing To set to SUBSCRIBED_TO_RESOURCE_ADDRESS and From set to AE1_RESOURCE_ADDRESS and Content containing <subscribed-to type> resource containing ATTRIBUTE_NAME attribute set to VALUE_2 } | IUT ← AE1 |
| | then { the IUT sends a valid Response containing Response Status Code set to 2004 (UPDATED) and the IUT sends a NOTIFY Request containing Content containing notification message containing notificationEvent attribute containing representation attribute containing <subscribed-to type> resource containing subscribed-to ResourceID } | IUT → AE1 IUT → AE2 |

TP/oneM2M/CSE/SUB/UPD/004

| | | |
|---------------------------|--|------------------------|
| TP Id | TP/oneM2M/CSE/SUB/UPD/004 | |
| Test objective | Check that the IUT decreases the expirationCounter attribute of a subscription resource when the Hosting CSE of the subscribed-to resource successfully sends the notification request to subscriber resource(s) | |
| Reference | ETSI TS 118 101 [1], clause 10.2.11.2, ETSI TS 118 104 [2], clause 7.5.1.2.2 | |
| Config Id | CF01 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | <p>with { the IUT being in the "initial state" and the IUT having registered the AE1 and the IUT having registered the AE2 and the AE1 having created a <subscribed-to type> resource containing ATTRIBUTE_NAME set to VALUE_1 and subscription child resource containing notificationURI attribute set to AE2_RESOURCE_ADDRESS and expirationCounter attribute set to MAX_NUMBER_NOTIFICATION and the AE1 having privileges to perform RETRIEVE operation on the subscribed-to resource }</p> | |
| Expected behaviour | Test events | Direction |
| | <p>when { the IUT receives a valid UPDATE Request from AE1 containing To set to SUBSCRIBED_TO_RESOURCE_ADDRESS and From set to AE1_RESOURCE_ADDRESS and Content containing <subscribed-to type> resource containing ATTRIBUTE_NAME attribute set to VALUE_2 }</p> | IUT ← AE1 |
| | <p>then { the IUT decreases the expirationCounter attribute of the subscription resource and the IUT sends a valid Response containing Response Status Code set to 2004 (UPDATED) and the IUT sends a NOTIFY Request }</p> | IUT → AE1 IUT → AE2 |

TP/oneM2M/CSE/SUB/UPD/005

| | | |
|---------------------------|--|-----------------------------------|
| TP Id | TP/oneM2M/CSE/SUB/UPD/005 | |
| Test objective | Check that the IUT deletes the subscription resource when the the expirationCounter meets zero | |
| Reference | ETSI TS 118 101 [1], clause 10.2.11.2, ETSI TS 118 104 [2], clause 7.5.1.2.2 | |
| Config Id | CF01 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | <p>with {</p> <p>the IUT being in the "initial state"</p> <p>and the IUT having registered the AE1</p> <p>and the IUT having registered the AE2</p> <p>and the AE1 having created a <subscribed-to type> resource containing</p> <p>ATTRIBUTE_NAME set to VALUE_1 and</p> <p>subscription child resource containing</p> <p>notificationURI attribute set to AE2_RESOURCE_ADDRESS and</p> <p>expirationCounter attribute set to 1</p> <p>and the AE1 having privileges to perform RETRIEVE operation on the subscribed-to resource</p> <p>}</p> | |
| Expected behaviour | Test events | Direction |
| | <p>when {</p> <p>the IUT receives a valid UPDATE Request from AE1 containing</p> <p>To set to SUBSCRIBED_TO_RESOURCE_ADDRESS and</p> <p>From set to AE1_RESOURCE_ADDRESS and</p> <p>Content containing</p> <p><subscribed-to type> resource containing</p> <p>ATTRIBUTE_NAME attribute set to VALUE_2</p> <p>}</p> | IUT ← AE1 |
| | <p>then {</p> <p>the IUT decreases the expirationCounter attribute of the subscription resource</p> <p>and the IUT deletes the subscription resource</p> <p>and the IUT sends a valid Response containing</p> <p>Response Status Code set to 2004 (UPDATED)</p> <p>and the IUT sends a NOTIFY Request</p> <p>}</p> | <p>IUT → AE1</p> <p>IUT → AE2</p> |

TP/oneM2M/CSE/SUB/UPD/006

| | | |
|---------------------------|---|------------------|
| TP Id | TP/oneM2M/CSE/SUB/UPD/006 | |
| Test objective | Check that the IUT does not send a Notify request to the subscriber resource when the "attribute" condition tag of eventNotificationCriteria attribute is set to LIST_OF_ATTRIBUTE and does not contain the ATTRIBUTE_NAME attribute updated. | |
| Reference | ETSI TS 118 101 [1], clause 9.6.8, ETSI TS 118 104 [2], clause 7.5.1.2.2 | |
| Config Id | CF01 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | <p>with { the IUT being in the "initial state" and the IUT having registered the AE1 and the IUT having registered the AE2 and the AE1 having created a <subscribed-to type> resource containing ATTRIBUTE_NAME set to VALUE_1 and subscription child resource containing notificationURI attribute set to AE2_RESOURCE_ADDRESS and eventNotificationCriteria attribute containing attribute condition tag set to LIST_OF_ATTRIBUTE containing no ATTRIBUTE_NAME attribute and the AE1 having privileges to perform RETRIEVE operation on the subscribed-to resource }</p> | |
| Expected behaviour | Test events | Direction |
| | <p>when { the IUT receives a valid UPDATE Request from AE1 containing To set to SUBSCRIBED_TO_RESOURCE_ADDRESS and From set to AE1_RESOURCE_ADDRESS and Content containing <subscribed-to type> resource containing ATTRIBUTE_NAME attribute set to VALUE_2 }</p> | IUT ← AE1 |
| | <p>then { the IUT sends a valid Response containing Response Status Code set to 2004 (UPDATED) and the IUT does not send a NOTIFY Request }</p> | IUT → AE1 |

TP/oneM2M/CSE/SUB/UPD/007

| | | |
|---------------------------|--|------------------------|
| TP Id | TP/oneM2M/CSE/SUB/UPD/007 | |
| Test objective | Check that the IUT sends batched notifications to the subscriber resource when the number value of the batchNotify attribute is set to NUMBER and when this number have been reached | |
| Reference | ETSI TS 118 101 [1], clause 10.2.12.1 | |
| Config Id | CF01 | |
| Parent release | Release 1 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | <p>with { the IUT being in the "initial state" and the IUT having registered the AE1 and the IUT having registered the AE2 and the AE1 having created a <subscribed-to type> resource containing ATTRIBUTE_NAME set to VALUE_1 and subscription child resource having notificationURI attribute set to AE2_RESOURCE_ADDRESS and batchNotify attribute containing number attribute set to NUMBER and duration attribute set to TIME_LIMIT and the AE1 having privileges to perform RETRIEVE operation on the subscribed-to resource and the IUT having received (NUMBER- 1) valid UPDATE Requests from AE1_RESOURCE_ADDRESS to subscribed-to resource and the timer has not reached the TIME_LIMIT duration value }</p> | |
| Expected behaviour | Test events | Direction |
| | <p>when { the IUT receives a valid UPDATE Request from AE1 containing To set to SUBSCRIBED_TO_RESOURCE_ADDRESS and From set to AE1_RESOURCE_ADDRESS and Content containing <subscribed-to type> resource containing a valid ATTRIBUTE_NAME attribute }</p> | IUT ← AE1 |
| | <p>then { the IUT sends a valid Response containing Response Status Code set to 2004 (UPDATED) and the IUT sends NUMBER times a NOTIFY Request contaning Content containing notification message containing a valid notificationEvent attribute }</p> | IUT → AE1 IUT → AE2 |

TP/oneM2M/CSE/SUB/UPD/008

| | | |
|---------------------------|---|------------------------|
| TP Id | TP/oneM2M/CSE/SUB/UPD/008 | |
| Test objective | Check that the IUT sends the latest notification to the subscriber resource when latestNotify is set to TRUE, the number value of the batchNotify attribute is set to NUMBER and when this number has been reached | |
| Reference | ETSI TS 118 101 [1], clause 10.2.12.1 | |
| Config Id | CF01 | |
| Parent release | Release 1 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | <p>with {</p> <p>the IUT being in the "initial state"</p> <p>and the IUT having registered the AE1</p> <p>and the IUT having registered the AE2</p> <p>and the AE1 having created a <subscribed-to type> resource containing ATTRIBUTE_NAME set to VALUE_1 and subscription child resource having notificationURI attribute set to AE2_RESOURCE_ADDRESS and latestNotify attribute set to TRUE and batchNotify attribute containing number attribute set to NUMBER and duration attribute set to TIME_LIMIT</p> <p>and the AE1 having privileges to perform RETRIEVE operation on the subscribed-to resource</p> <p>and the IUT having received (NUMBER– 1) valid UPDATE Requests from AE1_RESOURCE_ADDRESS to subscribed-to resource</p> <p>and the timer has not reached the TIME_LIMIT duration value</p> <p>}</p> | |
| Expected behaviour | Test events | Direction |
| | <p>when {</p> <p>the IUT receives a valid UPDATE Request from AE1 containing To set to SUBSCRIBED_TO_RESOURCE_ADDRESS and From set to AE1_RESOURCE_ADDRESS and Content containing <subscribed-to type> resource containing a valid ATTRIBUTE_NAME attribute</p> <p>}</p> | IUT ← AE1 |
| | <p>then {</p> <p>the IUT sends a valid Response containing Response Status Code set to 2004 (UPDATED)</p> <p>and the IUT sends a NOTIFY Request containing Content containing the latest notification message containing a valid notificationEvent attribute}</p> | IUT → AE1 IUT → AE2 |

TP/oneM2M/CSE/SUB/UPD/009

| | | |
|---------------------------|--|------------------------|
| TP Id | TP/oneM2M/CSE/SUB/UPD/009 | |
| Test objective | Check that the IUT sends a Notify request to the subscriber resource when the "attribute" condition tag of eventNotificationCriteria attribute is set to ATTRIBUTE_NAME and an update operation has been performed on the subscribed-to resource | |
| Reference | ETSI TS 118 101 [1], clause 9.6.8, ETSI TS 118 104 [2], clause 7.5.1.2.2 | |
| Config Id | CF01 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | <p>with { the IUT being in the "initial state" and the IUT having registered the AE1 and the IUT having registered the AE2 and the AE1 having created a <subscribed-to type> resource containing ATTRIBUTE_NAME set to VALUE_1 and subscription child resource containing notificationURI attribute set to AE2_RESOURCE_ADDRESS and eventNotificationCriteria attribute containing attribute condition tag set to ATTRIBUTE_NAME and the AE1 having privileges to perform RETRIEVE operation on the subscribed-to resource }</p> | |
| Expected behaviour | Test events | Direction |
| | <p>when { the IUT receives a valid UPDATE Request from AE1 containing To set to SUBSCRIBED_TO_RESOURCE_ADDRESS and From set to AE1_RESOURCE_ADDRESS and Content containing <subscribed-to type> resource containing ATTRIBUTE_NAME attribute set to VALUE_2 }</p> | IUT ← AE1 |
| | <p>then { the IUT sends a valid Response containing Response Status Code set to 2004 (UPDATED) and the IUT sends a NOTIFY Request containing Content containing notification message containing notificationEvent attribute containing representation attribute containing <subscribed-to type> resource containing All attributes }</p> | IUT → AE1 IUT → AE2 |

7.2.2.4.4 NOTIFY Operation

TP/oneM2M/CSE/SUB/NTF/001

| | | |
|---------------------------|---|------------------|
| TP Id | TP/oneM2M/CSE/SUB/NTF/001 | |
| Test objective | Check that the IUT rejects the creation of the <subscription> resource when the notificationURI is not the originator and the IUT have received the Notify response containing Response Status Code indicating SUBSCRIPTION_CREATOR_HAS_NO_PRIVILEGE | |
| Reference | ETSI TS 118 101 [1], clause 10.2.11.2, ETSI TS 118 104 [2], clause 7.4.8.2.1 | |
| Config Id | CF01 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having a resource PARENT_RESOURCE_ADDRESS allowing the AE to perform CREATE operation and notificationURI not being the originator and the IUT having sent the NOTIFY Request to the NOTI_URI_ADDRESS containing verificationRequest set to TRUE } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid Response containing Response Status Code set to 4101 (SUBSCRIPTION_CREATOR_HAS_NO_PRIVILEGE) } | IUT ← AE |
| | then { the IUT does not create the subscription resource and the IUT sends a valid Response containing Response Status Code set to 4101 (SUBSCRIPTION_CREATOR_HAS_NO_PRIVILEGE) and no Content } | IUT → AE |

TP/oneM2M/CSE/SUB/NTF/002

| | | |
|---------------------------|---|------------------|
| TP Id | TP/oneM2M/CSE/SUB/NTF/002 | |
| Test objective | Check that the IUT rejects the creation of the <subscription> resource when the notificationURI is not the originator and the IUT have received the Notify response containing Response Status Code indicating SUBSCRIPTION_HOST_HAS_NO_PRIVILEGE | |
| Reference | ETSI TS 118 101 [1], clause 10.2.11.2, ETSI TS 118 104 [2], clause 7.4.8.2.1 | |
| Config Id | CF01 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having a resource PARENT_RESOURCE_ADDRESS allowing the AE to perform CREATE operation and notificationURI not being the originator and the IUT having sent the NOTIFY Request to the NOTI_URI_ADDRESS containing verificationRequest set to TRUE } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid Response containing Response Status Code set to 5205 (SUBSCRIPTION_HOST_HAS_NO_PRIVILEGE) } | IUT ← AE |
| | then { the IUT does not create the subscription resource and the IUT sends a valid Response containing Response Status Code set to 5205 (SUBSCRIPTION_HOST_HAS_NO_PRIVILEGE) and no Content } | IUT → AE |

TP/oneM2M/CSE/SUB/NTF/003

| | | |
|---------------------------|---|-----------------------------------|
| TP Id | TP/oneM2M/CSE/SUB/NTF/003 | |
| Test objective | Check that the IUT sends batched notifications to the subscriber resource when the duration value of the batchNotify attribute is set to TIME_LIMIT and when this timer expires | |
| Reference | ETSI TS 118 101 [1], clause 10.2.12.1 | |
| Config Id | CF01 | |
| Parent release | Release 1 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | <p>with {</p> <p>the IUT being in the "initial state"</p> <p>and the IUT having registered the AE1</p> <p>and the IUT having registered the AE2</p> <p>and the AE1 having created a <subscribed-to type> resource containing ATTRIBUTE_NAME attribute set to VALUE_1 and subscription child resource having notificationURI attribute set to AE2_RESOURCE_ADDRESS and batchNotify attribute containing</p> <p>duration attribute set to TIME_LIMIT</p> <p>and the AE1 having privileges to perform RETRIEVE operation on the subscribed-to resource and the IUT having received a valid UPDATE Request from AE1_RESOURCE_ADDRESS to subscribed-to resource</p> <p>and timer has not reached TIME_LIMIT</p> <p>}</p> | |
| Expected behaviour | Test events | Direction |
| | <p>when {</p> <p>the timer expires after the TIME_LIMIT duration value</p> <p>}</p> <p>then {</p> <p>The IUT sends a NOTIFY Request containing Content containing notification message containing a valid notificationEvent attribute</p> <p>}</p> | <p>IUT ← AE1</p> <p>IUT → AE2</p> |

TP/oneM2M/CSE/SUB/NTF/004

| | | |
|---------------------------|---|-----------------------------------|
| TP Id | TP/oneM2M/CSE/SUB/NTF/004 | |
| Test objective | Check that the IUT sends the latest notification to the subscriber resource when latestNotify is set to TRUE, the duration value of the batchNotify attribute is set to TIME_LIMIT and when this timer expires | |
| Reference | ETSI TS 118 101 [1], clause 10.2.12.1 | |
| Config Id | CF01 | |
| Parent release | Release 1 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | <p>with { the IUT being in the "initial state" and the IUT having registered the AE1 and the IUT having registered the AE2 and the AE1 having created a <subscribed-to type> resource containing ATTRIBUTE_NAME set to VALUE_1 and subscription child resource having notificationURI attribute set to AE2_RESOURCE_ADDRESS and latestNotify attribute set to TRUE and batchNotify attribute containing duration attribute set to TIME_LIMIT and the AE1 having privileges to perform RETRIEVE operation on the subscribed-to resource and the IUT having received a valid UPDATE Request from AE1_RESOURCE_ADDRESS to subscribed-to resource and timer has not reached TIME_LIMIT }</p> | |
| Expected behaviour | Test events | Direction |
| | <p>when { the timer expires after the TIME_LIMIT duration value }</p> <p>then { The IUT sends a NOTIFY Request contaning Content containing the latest notification message containing a valid notificationEvent attribute }</p> | <p>IUT ← AE1</p> <p>IUT → AE2</p> |

TP/oneM2M/CSE/SUB/NTF/005

| | | |
|---------------------------|---|----------------------------|
| TP Id | TP/oneM2M/CSE/SUB/NTF/005 | |
| Test objective | Check that the IUT sends the latest cached notification after IUT escapes from connectionless state when the pendingNotification is set to 1 (sendLatest) | |
| Reference | ETSI TS 118 101 [1], clause 9.6.8 | |
| Config Id | CF01 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | <p>with {</p> <p>the IUT being in the "initial state"</p> <p>and the IUT having registered the AE1</p> <p>and the IUT having registered the AE2</p> <p>and the AE1 having created a <subscribed-to type> resource containing</p> <p style="padding-left: 20px;">subscription child resource containing</p> <p style="padding-left: 40px;">notificationURI attribute set to AE2_RESOURCE_ADDRESS and</p> <p style="padding-left: 40px;">pendingNotification attribute set to 1 (sendLatest)</p> <p>and the AE2 having privileges to perform RETRIEVE operation on the subscribed-to resource</p> <p>and the IUT being in the "connectionless state" with AE2</p> <p>and the IUT having frequently received from AE1 a valid UPDATE Requests to subscribed-to resource</p> <p>}</p> | |
| Expected behaviour | Test events | Direction |
| | <p>when {</p> <p style="padding-left: 20px;">the IUT escapes from the "connectionless state"</p> <p>}</p> <p>then {</p> <p style="padding-left: 20px;">The IUT sends a valid NOTIFY Request containing</p> <p style="padding-left: 40px;">Content containing</p> <p style="padding-left: 40px;">the latest notification message</p> <p>}</p> | <p>NA</p> <p>IUT → AE2</p> |

TP/oneM2M/CSE/SUB/NTF/006

| | | |
|---------------------------|--|----------------------------|
| TP Id | TP/oneM2M/CSE/SUB/NTF/006 | |
| Test objective | Check that the IUT sends the notifications of cached notification messages after IUT escapes from connectionless state when the pendingNotification is set to 2 (sendAllPending) | |
| Reference | ETSI TS 118 101 [1], clause 9.6.8 | |
| Config Id | CF01 | |
| Parent release | Release 1 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | <p>with {</p> <p>the IUT being in the "initial state"</p> <p>and the IUT having registered the AE1</p> <p>and the IUT having registered the AE2</p> <p>and the AE1 having created a <subscribed-to type> resource containing</p> <p>subscription child resource having</p> <p>notificationURI attribute set to AE2_RESOURCE_ADDRESS and</p> <p>pendingNotification attribute set to 2 (sendAllPending)</p> <p>and the AE2 having privileges to perform RETRIEVE operation on the subscribed-to resource</p> <p>and the IUT being in the "connectionless state" with AE2</p> <p>and the IUT having received from AE1 a NUMBER of valid UPDATE Requests to subscribed-to resource</p> <p>}</p> | |
| Expected behaviour | Test events | Direction |
| | <p>when {</p> <p>the IUT escapes from the "connectionless state"</p> <p>}</p> <p>then {</p> <p>The IUT sends NUMBER times a valid NOTIFY Request containing</p> <p>Content containing</p> <p>notification message containing</p> <p>a valid notificationEvent attribute</p> <p>}</p> | <p>NA</p> <p>IUT → AE2</p> |

TP/oneM2M/CSE/SUB/NTF/007

| | | |
|---------------------------|---|------------------|
| TP Id | TP/oneM2M/CSE/SUB/NTF/007 | |
| Test objective | Check that the IUT retargets the notification to the AE according to pointOfAccess in the <AE> resource. | |
| Reference | ETSI TS 118 101 [1], clause 9.6.5 and clause 9.3.2.3.1, ETSI TS 118 104 [2], clause 7.3.3.9 | |
| Config Id | CF02 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having created the AE resource containing POINT_OF_ACCESS attribute and REQUEST_REACHABILITY set to true } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid NOTIFY from CSE containing To set to AE_RESOURCE_ADDRESS From set to CSE_ID } | IUT ← CSE |
| | then { the IUT sends the valid NOTIFY to POINT_OF_ACCESS } | IUT → AE |

TP/oneM2M/CSE/SUB/NTF/008

| | | |
|---------------------------|---|------------------|
| TP Id | TP/oneM2M/CSE/SUB/NTF/008 | |
| Test objective | Check that the IUT retargets the notification to the AE according to pointOfAccess in the <AE> resource and forward the response back to the CSE. | |
| Reference | ETSI TS 118 101 [1], clause 9.6.5 and clause 9.3.2.3.1, ETSI TS 118 104 [2], clause 7.3.3.9 | |
| Config Id | CF02 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having received a valid NOTIFY from CSE and The IUT having sent the NOTIFY to the AE } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid NOTIFY RESPONSE from the AE } | IUT ← AE |
| | then { the IUT sends the valid NOTIFY RESPONSE to the CSE } | IUT → CSE |

7.2.2.5 Group Management (GMG)

7.2.2.5.1 CREATE Operation

TP/oneM2M/CSE/GMG/CRE/001

| | | |
|---------------------------|--|------------------|
| TP Id | TP/oneM2M/CSE/GMG/CRE/001 | |
| Test objective | Check that the IUT rejects the creation of the group resource when member ID exceed max number of members. | |
| Reference | ETSI TS 118 101 [1], clause 10.2.7.2, ETSI TS 118 104 [2], clause 7.3.13 | |
| Parent Release | Release 1 | |
| Config Id | CF01 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having a resource PARENT_RESOURCE_ADDRESS allowing the AE to perform CREATE operation } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid CREATE Request from AE containing To set to PARENT_RESOURCE_ADDRESS and Resource Type set to 9 (group) and From set to AE-ID and Content containing group resource containing memberIDs attribute set to LIST_OF_MEMBER_RESOURCE_IDS and maxNrOfMembers attribute set to MAX_NR_MEMBERS less than the number of memberIDs set in memberIDs attribute } | IUT ← AE |
| | then { the IUT does not create the group resource and the IUT sends a valid Response containing Response Status Code set to 6010 (MAX_NUMBER_OF_MEMBER_EXCEEDED) } | IUT → AE |

TP/oneM2M/CSE/GMG/CRE/002

| | | |
|---------------------------|--|------------------|
| TP Id | TP/oneM2M/CSE/GMG/CRE/002 | |
| Test objective | Check that the IUT rejects the creation of the group resource when the memberType cannot be retrieved due to lack of privilege. | |
| Reference | ETSI TS 118 101 [1], clause 10.2.7.2, ETSI TS 118 104 [2], clause 7.3.13 | |
| Parent Release | Release 1 | |
| Config Id | CF01 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | <p>with { the IUT being in the "initial state" and the IUT having a resource PARENT_RESOURCE_ADDRESS allowing the AE to perform CREATE operation and the sub-group members being in the "initial state" and the AE not having privileges to perform RETRIEVE operation on the sub-group members }</p> | |
| Expected behaviour | Test events | Direction |
| | <p>when { the IUT receives a valid CREATE Request from AE containing To set to PARENT_RESOURCE_ADDRESS and Resource Type set to RESOURCE_TYPE and From set to AE-ID and Content containing group resource representation containing memberIDs attribute containing sub-group members }</p> | IUT ← AE |
| | <p>then { the IUT does not create the group resource and the IUT sends a valid valid Response containing Response Status Code set to 5105 (NO_PRIVILEGE) }</p> | IUT → AE |

TP/oneM2M/CSE/GMG/CRE/003

| | | |
|--|--|------------------|
| TP Id | TP/oneM2M/CSE/GMG/CRE/003 | |
| Test objective | Check that the IUT detects the presence of duplicate member IDs during the creation of the <group> resource and removes the duplicate member IDs prior to creation of the <group> resource. | |
| Reference | ETSI TS 118 101 [1], clause 10.2.7.2 | |
| Parent Release | Release 1 | |
| Config Id | CF01 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | <p>with { the IUT being in the "initial state" and the IUT having registered the AE and the IUT having created a resource at TARGET_RESOURCE_ADDRESS allowing a child resource type group and the AE having privileges to perform CREATE operation on the TARGET_RESOURCE_ADDRESS and the IUT having created a resource at MEMBER_RESOURCE_ADDRESS }</p> | |
| Expected behaviour | Test events | Direction |
| | <p>when { the IUT receives an valid CREATE Request from AE containing To set to TARGET_RESOURCE_ADDRESS and Resource Type set to 9 (group) and From set to AE-ID and Content containing group resource containing memberIDs attribute set to MEMBER_RESOURCE_ADDRESS, MEMBER_RESOURCE_ADDRESS }</p> | IUT ← AE |
| | <p>then { the IUT creates the group resource and the IUT sends a valid Response containing Response Status Code set to 2001 (CREATED) Content containing group resource containing memberIDs attribute set to MEMBER_RESOURCE_ADDRESS }</p> | IUT → AE |
| <p>NOTE: TARGET_RESOURCE_ADDRESS : <CSEBase>, <remoteCSE> MEMBER_RESOURCE_ADDRESS : any oneM2M resource type.</p> | | |

TP/oneM2M/CSE/GMG/CRE/004

| | | |
|--|---|---------------------------------|
| TP Id | TP/oneM2M/CSE/GMG/CRE/004 | |
| Test objective | Check that the IUT validates the resource type during the creation of the <group> resource when memberType attribute is not 'mixed'. | |
| Reference | ETSI TS 118 101 [1], clause 10.2.7.2, ETSI TS 118 104 [2], clause 7.4.14.2.1 | |
| Parent Release | Release 1 | |
| Config Id | CF01 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | <p>with { the IUT being in the "initial state" and the IUT having registered the AE and the IUT having a resource at TARGET_RESOURCE_ADDRESS allowing a child resource type group and the AE having privileges to perform CREATE operation on the TARGET_RESOURCE_ADDRESS and the IUT having a resource at MEMBER_RESOURCE_ADDRESS having resourceType attribute RESOURCE_TYPE }</p> | |
| Expected behaviour | Test events | Direction |
| | <p>when { the IUT receives a valid CREATE Request from AE containing To set to TARGET_RESOURCE_ADDRESS and Resource Type set to 9 (group) and From set to AE-ID and Content containing group resource containing memberIDs attribute set to MEMBER_RESOURCE_ADDRESS and memberType attribute set to RESOURCE_TYPE } then { the IUT creates the group resource and the IUT sends a valid Response containing Response Status Code set to 2001 (CREATED) Content containing group resource containing memberTypeValidated attribute set to TRUE }</p> | <p>IUT ← AE</p> <p>IUT → AE</p> |
| <p>NOTE: TARGET_RESOURCE_ADDRESS : <CSEBase>, <remoteCSE> MEMBER_RESOURCE_ADDRESS : any oneM2M resource type.</p> | | |

TP/oneM2M/CSE/GMG/CRE/005

| | | |
|---------------------------|--|------------------|
| TP Id | TP/oneM2M/CSE/GMG/CRE/005 | |
| Test objective | Check that the IUT handles unsuccessful validation of the resource type during the creation of the <i><group></i> resource when memberType attribute is not 'mixed' and the consistencyStrategy attribute is SET_MIXED. | |
| Reference | ETSI TS 118 101 [1], clause 10.2.7.2, ETSI TS 118 104 [2], clause 7.4.14.2.1 | |
| Parent Release | Release 1 | |
| Config Id | CF01 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | <p>with { the IUT being in the "initial state" and the IUT having registered the AE and the IUT having a resource at TARGET_RESOURCE_ADDRESS allowing a child resource type group and the AE having privileges to perform CREATE operation on the TARGET_RESOURCE_ADDRESS and the IUT having a resource at MEMBER_RESOURCE_ADDRESS having resourceType attribute RESOURCE_TYPE_1 }</p> | |
| Expected behaviour | Test events | Direction |
| | <p>when { the IUT receives a valid CREATE Request from AE containing To set to TARGET_RESOURCE_ADDRESS and Resource Type set to 9 (group) and From set to AE-ID and Content containing group resource containing memberIDs attribute set to MEMBER_RESOURCE_ADDRESS and memberType attribute set to RESOURCE_TYPE_2 and consistencyStrategy attribute set to SET_MIXED }</p> | IUT ← AE |
| | <p>then { the IUT creates the group resource and the IUT sends a valid Response containing Response Status Code set to 2001 (CREATED) and Content containing group resource containing memberTypeValidated attribute set to TRUE and memberType attribute set to MIXED }</p> | IUT → AE |
| NOTE: | TARGET_RESOURCE_ADDRESS : <CSEBase>, <remoteCSE> MEMBER_RESOURCE_ADDRESS : any oneM2M resource type. | |

TP/oneM2M/CSE/GMG/CRE/006

| | |
|---------------------------|---|
| TP Id | TP/oneM2M/CSE/GMG/CRE/006 |
| Test objective | Check that the IUT handles unsuccessful validation of the resource type during the creation of the <i><group></i> resource when memberType attribute is not 'mixed' and the consistencyStrategy attribute is ABANDON_MEMBER,. |
| Reference | ETSI TS 118 101 [1], clause 10.2.7.2, ETSI TS 118 104 [2], clause 7.4.14.2.1 |
| Parent Release | Release 1 |
| Config Id | CF01 |
| PICS Selection | PICS_CSE |
| Initial conditions | <pre> with { the IUT being in the "initial state" and the IUT having registered the AE and the IUT having a resource at TARGET_RESOURCE_ADDRESS allowing a child resource type group and the AE having privileges to perform CREATE operation on the TARGET_RESOURCE_ADDRESS and the IUT having a resource at MEMBER_RESOURCE_ADDRESS_1 having resourceType attribute RESOURCE_TYPE_1 and the IUT having a resource at MEMBER_RESOURCE_ADDRESS_2 having resourceType attribute RESOURCE_TYPE_2 } </pre> |

| Expected behaviour | Test events | Direction |
|--|---|-----------------|
| | <p>when { the IUT receives a valid CREATE Request from AE containing To set to TARGET_RESOURCE_ADDRESS and Resource Type set to 9 (group) and From set to AE-ID and Content containing group resource containing memberIDs attribute set to MEMBER_RESOURCE_ADDRESS_1, MEMBER_RESOURCE_ADDRESS_2 and memberType attribute set to RESOURCE_TYPE_1 and consistencyStrategy attribute set to ABANDON_MEMBER }</p> | <p>IUT ← AE</p> |
| | <p>then { the IUT creates the group resource and the IUT sends a valid Response containing Response Status Code set to 2001 (CREATED) and Content containing group resource containing memberTypeValidated attribute set to TRUE and memberIDs attribute set to MEMBER_RESOURCE_ADDRESS_1 }</p> | <p>IUT → AE</p> |
| <p>NOTE: TARGET_RESOURCE_ADDRESS : <CSEBase>, <remoteCSE> MEMBER_RESOURCE_ADDRESS : any oneM2M resource type.</p> | | |

TP/oneM2M/CSE/GMG/CRE/007

| | | |
|---------------------------|---|------------------|
| TP Id | TP/oneM2M/CSE/GMG/CRE/007 | |
| Test objective | Check that the IUT handles unsuccessful validation of the resource type during the creation of the group resource when memberType attribute is not 'mixed' and the consistencyStrategy attribute is ABANDON_GROUP. | |
| Reference | ETSI TS 118 101 [1], clause 10.2.7.2, ETSI TS 118 104 [2], clause 7.4.14.2.1 | |
| Parent Release | Release 1 | |
| Config Id | CF01 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | <p>with {</p> <ul style="list-style-type: none"> the IUT being in the "initial state" and the IUT having registered the AE and the IUT having a resource at TARGET_RESOURCE_ADDRESS allowing a child resource type <group> and the AE having privileges to perform CREATE operation on the TARGET_RESOURCE_ADDRESS and the IUT having a resource at MEMBER_RESOURCE_ADDRESS_1 having resourceType attribute RESOURCE_TYPE_1 and the IUT having a resource at MEMBER_RESOURCE_ADDRESS_2 having resourceType attribute RESOURCE_TYPE_2 <p>}</p> | |
| Expected behaviour | Test events | Direction |
| | <p>when {</p> <ul style="list-style-type: none"> the IUT receives a valid CREATE Request from AE containing To set to TARGET_RESOURCE_ADDRESS and Resource Type set to 9 (group) and From set to AE-ID and Content containing group resource containing memberIDs attribute set to MEMBER_RESOURCE_ADDRESS_1, MEMBER_RESOURCE_ADDRESS_2 and memberType attribute set to RESOURCE_TYPE_1 and consistencyStrategy attribute set to ABANDON_GROUP <p>}</p> <p>then {</p> <ul style="list-style-type: none"> the IUT does not create the group resource and the IUT sends a valid Response containing Response Status Code set to 4110 (GROUP_MEMBER_TYPE_INCONSISTENT) <p>}</p> | IUT ← AE |
| | | IUT → AE |
| NOTE: | TARGET_RESOURCE_ADDRESS : <CSEBase>, <remoteCSE> MEMBER_RESOURCE_ADDRESS : any oneM2M resource type. | |

7.2.2.5.2 UPDATE Operation

TP/oneM2M/CSE/GMG/UPD/001

| | | |
|---------------------------|---|------------------|
| TP Id | TP/oneM2M/CSE/GMG/UPD/001 | |
| Test objective | Check that the IUT rejects the update of the group resource when the memberType cannot be retrieved due to lack of privilege. | |
| Reference | ETSI TS 118 101 [1], clause 10.2.7.4, ETSI TS 118 104 [2], clause 7.3.13 | |
| Parent Release | Release 1 | |
| Config Id | CF01 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | <p>with { the IUT being in the "initial state" and the IUT having a resource PARENT_RESOURCE_ADDRESS allowing the AE to perform UPDATE operation and the sub-group members being in the "initial state" and the AE not having privileges to perform RETRIEVE operation on the sub-group members }</p> | |
| Expected behaviour | Test events | Direction |
| | <p>when { the IUT receives a valid UPDATE Request from AE containing To set to PARENT_RESOURCE_ADDRESS and Resource Type set to RESOURCE_TYPE and From set to AE-ID and Content containing group resource representation }</p> | IUT ← AE |
| | <p>then { the IUT sends a valid valid Response containing Response Status Code set to 5105 (NO_PRIVILEGE) }</p> | IUT → AE |

TP/oneM2M/CSE/GMG/UPD/002

| | | |
|---------------------------|--|------------------|
| TP Id | TP/oneM2M/CSE/GMG/UPD/002 | |
| Test objective | Check that the IUT detects the presence of duplicate member IDs during an update of the <group> resource and removes the duplicate member IDs prior to updating the <group> resource. | |
| Reference | ETSI TS 118 101 [1], clause 10.2.7.4, ETSI TS 118 104 [2], clause 7.4.14.2.4 | |
| Parent Release | Release 1 | |
| Config Id | CF01 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | <p>with { the IUT being in the "initial state" and the IUT having registered the AE and the IUT having a resource at MEMBER_RESOURCE_ADDRESS_1 and the IUT having created a <group> resource at GROUP_RESOURCE_ADDRESS containing memberIDs attribute set to MEMBER_RESOURCE_ADDRESS_1 and the AE having privileges to perform UPDATE operation on the GROUP_RESOURCE_ADDRESS and the IUT having created a resource at MEMBER_RESOURCE_ADDRESS_2 } </p> | |
| Expected behaviour | Test events | Direction |
| | <p>when { the IUT receives a valid UPDATE Request from AE containing To set to GROUP_RESOURCE_ADDRESS and From set to AE-ID and Content containing group resource containing memberIDs attribute set to MEMBER_RESOURCE_ADDRESS_2, MEMBER_RESOURCE_ADDRESS_2 } </p> | IUT ← AE |
| | <p>then { the IUT updates the group resource and the IUT sends a valid Response containing Response Status Code set to 2004 (UPDATED) Content containing group resource containing memberIDs attribute set to MEMBER_RESOURCE_ADDRESS_2 } </p> | IUT → AE |

TP/oneM2M/CSE/GMG/UPD/003

| | | |
|---------------------------|---|------------------|
| TP Id | TP/oneM2M/CSE/GMG/UPD/003 | |
| Test objective | Check that the IUT validates the resource type during an UPDATE of the <group> resource when memberType attribute is not 'mixed'. | |
| Reference | ETSI TS 118 101 [1], clause 10.2.7.4, ETSI TS 118 104 [2], clause 7.4.14.2.4 | |
| Parent Release | Release 1 | |
| Config Id | CF01 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | <p>with { the IUT being in the "initial state" and the IUT having registered the AE and the IUT having a group resource at TARGET_RESOURCE_ADDRESS containing memberIDs attribute set to MEMBER_RESOURCE_ADDRESS_1 memberType attribute set to RESOURCE_TYPE_1 and the AE having privileges to perform UPDATE operation on the TARGET_RESOURCE_ADDRESS and the IUT having a resource at MEMBER_RESOURCE_ADDRESS_1 having resourceType attribute RESOURCE_TYPE_1 and the IUT having a resource at MEMBER_RESOURCE_ADDRESS_2 having resourceType attribute RESOURCE_TYPE_1 }</p> | |
| Expected behaviour | Test events | Direction |
| | <p>when { the IUT receives a valid UPDATE Request from AE containing To set to TARGET_RESOURCE_ADDRESS and From set to AE-ID and Content containing group resource containing memberIDs attribute set to MEMBER_RESOURCE_ADDRESS_2 }</p> | IUT ← AE |
| | <p>then { the IUT updates the group resource and the IUT sends a valid Response containing Response Status Code set to 2004 (UPDATED) Content containing group resource containing memberTypeValidated attribute set to TRUE }</p> | IUT → AE |

TP/oneM2M/CSE/GMG/UPD/004

| | | |
|---------------------------|--|------------------|
| TP Id | TP/oneM2M/CSE/GMG/UPD/004 | |
| Test objective | Check that the IUT handles unsuccessful validation of the resource type during an UPDATE of the <group> resource when memberType attribute is not 'mixed' and the consistencyStrategy attribute is SET_MIXED. | |
| Reference | ETSI TS 118 101 [1], clause 10.2.7.4, ETSI TS 118 104 [2], clause 7.4.14.2.4 | |
| Parent Release | Release 1 | |
| Config Id | CF01 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | <p>with { the IUT being in the "initial state" and the IUT having registered the AE and the IUT having a group resource at TARGET_RESOURCE_ADDRESS containing memberIDs attribute set to MEMBER_RESOURCE_ADDRESS_1 and memberType attribute set to RESOURCE_TYPE_1 and memberTypeValidated attribute set to TRUE and consistencyStrategy attribute set to SET_MIXED and the AE having privileges to perform UPDATE operation on the TARGET_RESOURCE_ADDRESS and the IUT having a resource at MEMBER_RESOURCE_ADDRESS_1 having resourceType attribute RESOURCE_TYPE_1 and the IUT having a resource at MEMBER_RESOURCE_ADDRESS_2 having resourceType attribute RESOURCE_TYPE_2 }</p> | |
| Expected behaviour | Test events | Direction |
| | <p>when { the IUT receives a valid UPDATE Request from AE containing To set to TARGET_RESOURCE_ADDRESS and From set to AE-ID and Content containing group resource containing memberIDs attribute set to MEMBER_RESOURCE_ADDRESS_1, MEMBER_RESOURCE_ADDRESS_2 }</p> | IUT ← AE |
| | <p>then { the IUT updates the group resource and the IUT sends a valid Response containing Response Status Code set to 2004 (UPDATED) and Content containing group resource containing memberTypeValidated attribute set to TRUE and memberType attribute set to MIXED }</p> | IUT → AE |

TP/oneM2M/CSE/GMG/UPD/005

| | | |
|---------------------------|--|------------------|
| TP Id | TP/oneM2M/CSE/GMG/UPD/005 | |
| Test objective | Check that the IUT handles unsuccessful validation of the resource type during an UPDATE of the group resource when memberType attribute is not 'mixed' and the consistencyStrategy attribute is ABANDON_MEMBER. | |
| Reference | ETSI TS 118 101 [1], clause 10.2.7.4, ETSI TS 118 104 [2], clause 7.4.14.2.4 | |
| Parent Release | Release 1 | |
| Config Id | CF01 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | <p>with {</p> <p>the IUT being in the "initial state"</p> <p>and the IUT having registered the AE</p> <p>and the IUT having a group resource at TARGET_RESOURCE_ADDRESS containing memberIDs attribute set to MEMBER_RESOURCE_ADDRESS_1 and memberType attribute set to RESOURCE_TYPE_1 and memberTypeValidated attribute set to TRUE and consistencyStrategy attribute set to ABANDON_MEMBER</p> <p>and the AE having privileges to perform UPDATE operation on the TARGET_RESOURCE_ADDRESS</p> <p>and the IUT having a resource at MEMBER_RESOURCE_ADDRESS_1 having resourceType attribute RESOURCE_TYPE_1</p> <p>and the IUT having a resource at MEMBER_RESOURCE_ADDRESS_2 having resourceType attribute RESOURCE_TYPE_2</p> <p>}</p> | |
| Expected behaviour | Test events | Direction |
| | <p>when {</p> <p>the IUT receives a valid UPDATE Request from AE containing To set to TARGET_RESOURCE_ADDRESS and From set to AE-ID and Content containing group resource containing memberIDs attribute set to MEMBER_RESOURCE_ADDRESS_1, MEMBER_RESOURCE_ADDRESS_2</p> <p>}</p> | IUT ← AE |
| | <p>then {</p> <p>the IUT updates the group resource</p> <p>and the IUT sends a valid Response containing Response Status Code set to 2004 (UPDATED) and Content containing group resource containing memberTypeValidated attribute set to TRUE and memberIDs attribute set to MEMBER_RESOURCE_ADDRESS_1</p> <p>}</p> | IUT → AE |

TP/oneM2M/CSE/GMG/UPD/006

| | | |
|---------------------------|--|------------------|
| TP Id | TP/oneM2M/CSE/GMG/UPD/006 | |
| Test objective | Check that the IUT handles unsuccessful validation of the resource type during the creation of the group resource when memberType attribute is not 'mixed' and the consistencyStrategy attribute is ABANDON_GROUP. | |
| Reference | ETSI TS 118 101 [1], clause 10.2.7.4, ETSI TS 118 104 [2], clause 7.4.14.2.4 | |
| Parent Release | Release 1 | |
| Config Id | CF01 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | <p>with { the IUT being in the "initial state" and the IUT having registered the AE and the IUT having a group resource at TARGET_RESOURCE_ADDRESS containing memberIDs attribute set to MEMBER_RESOURCE_ADDRESS_1 and memberType attribute set to RESOURCE_TYPE_1 and memberTypeValidated attribute set to TRUE and consistencyStrategy attribute set to ABANDON_GROUP and the AE having privileges to perform UPDATE operation on the TARGET_RESOURCE_ADDRESS and the IUT having a resource at MEMBER_RESOURCE_ADDRESS_1 having resourceType attribute RESOURCE_TYPE_1 and the IUT having a resource at MEMBER_RESOURCE_ADDRESS_2 having resourceType attribute RESOURCE_TYPE_2 }</p> | |
| Expected behaviour | Test events | Direction |
| | <p>when { the IUT receives a valid UPDATE Request from AE containing To set to TARGET_RESOURCE_ADDRESS and From set to AE-ID and Content containing group resource containing memberIDs attribute set to MEMBER_RESOURCE_ADDRESS_1, MEMBER_RESOURCE_ADDRESS_2 }</p> | IUT ← AE |
| | <p>then { the IUT updates the group resource and the IUT sends a valid Response containing Response Status Code set to 2004 (UPDATED) }</p> | IUT → AE |

TP/oneM2M/CSE/GMG/UPD/007

| | | |
|---------------------------|---|------------------|
| TP Id | TP/oneM2M/CSE/GMG/UPD/007 | |
| Test objective | Check that the IUT detects when the number of memberIDs exceeds the limitation of maxNrOfMembers. | |
| Reference | ETSI TS 118 101 [1], clause 10.2.7.4, ETSI TS 118 104 [2], clause 7.4.14.2.4 | |
| Parent Release | Release 1 | |
| Config Id | CF01 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | <p>with { the IUT being in the "initial state" and the IUT having registered the AE and the IUT having a group resource at TARGET_RESOURCE_ADDRESS containing memberIDs attribute set to MEMBER_RESOURCE_ADDRESS_1, MEMBER_RESOURCE_ADDRESS_2 and maxNrOfMembers attribute set to 2 and the AE having privileges to perform UPDATE operation on the TARGET_RESOURCE_ADDRESS and the IUT having a resource at MEMBER_RESOURCE_ADDRESS_1 having resourceType attribute set to RESOURCE_TYPE_1 and the IUT having a resource at MEMBER_RESOURCE_ADDRESS_2 having resourceType attribute set to RESOURCE_TYPE_1 and the IUT having a resource at MEMBER_RESOURCE_ADDRESS_3 having resourceType attribute set to RESOURCE_TYPE_1 }</p> | |
| Expected behaviour | Test events | Direction |
| | <p>when { the IUT receives a valid UPDATE Request from AE containing To set to TARGET_RESOURCE_ADDRESS and From set to AE-ID and Content containing group resource containing memberIDs attribute set to MEMBER_RESOURCE_ADDRESS_1, MEMBER_RESOURCE_ADDRESS_2, MEMBER_RESOURCE_ADDRESS_3 }</p> | IUT ← AE |
| | <p>then { the IUT does not update the group resource and the IUT sends a valid Response containing Response Status Code set to 6010 (MAX_NUMBER_OF_MEMBER_EXCEEDED) }</p> | IUT → AE |

| | | |
|---------------------------|--|------------------|
| Test objective | Check that the IUT handles validation of the resource type during an UPDATE of the <group> resource when memberIDs contains a sub-group on a temporarily unreachable Hosting CSE. | |
| Reference | ETSI TS 118 101 [1], clause 10.2.7.4, ETSI TS 118 104 [2], clause 7.4.14.2.4 | |
| Parent Release | Release 1 | |
| Config Id | CF02 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | <p>with {</p> <p>the IUT being in the "initial state"</p> <p>and the IUT having registered to the remoteCSE</p> <p>and the IUT having registered the AE</p> <p>and the IUT having a group resource at TARGET_RESOURCE_ADDRESS containing</p> <p>memberIDs attribute set to MEMBER_RESOURCE_ADDRESS_1 and</p> <p>memberTypeValidated attribute set to RESOURCE_TYPE_1 and</p> <p>consistencyStrategy attribute set to ABANDON_MEMBER</p> <p>and the AE having privileges to perform UPDATE operation on the TARGET_RESOURCE_ADDRESS</p> <p>and the IUT having a resource at MEMBER_RESOURCE_ADDRESS_1 having</p> <p>resourceType attribute set to RESOURCE_TYPE_1</p> <p>and the remoteCSE having a group resource at MEMBER_RESOURCE_ADDRESS_2</p> <p>containing</p> <p>memberType attribute set to RESOURCE_TYPE_1</p> <p>and the remoteCSE having onlineStatus set to False</p> <p>}</p> | |
| Expected behaviour | Test events | Direction |
| | <p>when {</p> <p>the IUT receives a valid UPDATE Request from AE containing</p> <p>To set to TARGET_RESOURCE_ADDRESS and</p> <p>From set to AE-ID and</p> <p>Content containing</p> <p>group resource containing</p> <p>memberIDs attribute set to</p> <p>MEMBER_RESOURCE_ADDRESS_1,</p> <p>MEMBER_RESOURCE_ADDRESS_2</p> <p>}</p> | IUT ← AE |
| | <p>then {</p> <p>the IUT updates the group resource</p> <p>and the IUT sends a valid Response containing</p> <p>Response Status Code set to 2004 (UPDATED)</p> <p>Content containing</p> <p>group resource containing</p> <p>memberTypeValidated attribute set to FALSE and</p> <p>memberIDs attribute set to</p> <p>MEMBER_RESOURCE_ADDRESS_1,</p> <p>MEMBER_RESOURCE_ADDRESS_2</p> <p>}</p> | IUT → AE |

TP/oneM2M/CSE/GMG/UPD/010

| | |
|---------------------------|--|
| TP Id | TP/oneM2M/CSE/GMG/UPD/010 |
| Test objective | Check that the IUT handles validation of the resource type during an UPDATE of the group resource when memberIDs contains a sub-group on a previously unreachable Hosting CSE that has become reachable |
| Reference | ETSI TS 118 101 [1], clause 10.2.7.4, ETSI TS 118 104 [2], clause 7.4.14.2.4 |
| Parent Release | Release 1 |
| Config Id | CF01 |
| PICS Selection | PICS_CSE |
| Initial conditions | <pre> with { the IUT being in the "initial state" and the IUT having registered to the remoteCSE and the IUT having registered the AE and the IUT having a group resource at TARGET_RESOURCE_ADDRESS containing memberIDs attribute set to MEMBER_RESOURCE_ADDRESS_1, MEMBER_RESOURCE_ADDRESS_2 and memberType attribute set to RESOURCE_TYPE_1 and memberTypeValidated attribute set to FALSE and consistencyStrategy attribute set to ABANDON_MEMBER and the AE having privileges to perform UPDATE operation on the TARGET_RESOURCE_ADDRESS and the AE having a subscription to TARGET_RESOURCE_ADDRESS and the IUT having a resource at MEMBER_RESOURCE_ADDRESS_1 having resourceType attribute set to RESOURCE_TYPE_1 and the remoteCSE having a group resource at MEMBER_RESOURCE_ADDRESS_2 containing memberType attribute set to RESOURCE_TYPE_2 and the remoteCSE having onlineStatus set to False } </pre> |

| Expected behaviour | Test events | Direction |
|--------------------|---|-----------|
| | when { the IUT receives a valid UPDATE Request from remoteCSE containing To set to REMOTE_CSE_ADDRESS and From set to CSE-ID and Content containing remoteCSE resource containing onlineStatus attribute set to TRUE } | IUT ← AE |
| | then { the IUT sends a NOTIFY Request containing Content containing group resource containing memberTypeValidated attribute set to TRUE and memberIDs attribute set to MEMBER_RESOURCE_ADDRESS_1, MEMBER_RESOURCE_ADDRESS_2 } | IUT → AE |

7.2.2.5.3 RETRIEVE Operation

TP/oneM2M/CSE/GMG/RET/001

| | | |
|---------------------------|--|---------------------------------|
| TP Id | TP/oneM2M/CSE/GMG/RET/001 | |
| Test objective | Check that the IUT performs a RETRIEVE request for each resource in memberIDs with a relative address appended to fanOutPoint that includes a virtual resource. | |
| Reference | ETSI TS 118 101 [1], clause 10.2.7.7 | |
| Parent Release | Release 1 | |
| Config Id | CF01 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | <p>with {</p> <p>the IUT being in the "initial state"</p> <p>and the IUT having registered the AE</p> <p>and the IUT having a group resource at TARGET_RESOURCE_ADDRESS containing membersAccessControlPolicyIDs attribute set to ACP_RESOURCE_ID indicating to allow the AE privileges to perform RETRIEVE operation and memberType attribute set to 3 (container) and memberIDs attribute set to MEMBER_RESOURCE_ADDRESS1, MEMBER_RESOURCE_ADDRESS2</p> <p>and the IUT having a resource at MEMBER_RESOURCE_ADDRESS1 containing resourceType attribute set to container and</p> <p>and the IUT having a resource at MEMBER_RESOURCE_ADDRESS2 containing resourceType attribute set to container and</p> <p>and MEMBER_RESOURCE_ADDRESS1 and MEMBER_RESOURCE_ADDRESS2 containing</p> <p>a child resource containing</p> <p>resourceType attribute set to contentInstance</p> <p>}</p> | |
| Expected behaviour | Test events | Direction |
| | <p>when {</p> <p>the IUT receives a valid RETRIEVE Request from AE containing</p> <p>To set to ARGET_RESOURCE_ADDRESS/fopt/NAME/la and</p> <p>From set to AE-ID</p> <p>}</p> <p>then {</p> <p>the IUT sends a valid Response containing</p> <p>Response Status Code set to 2000 (OK) and</p> <p>Content containing</p> <p>aggregatedResponse message containing</p> <p>Response for MEMBER_RESOURCE_ADDRESS1/NAME/la,</p> <p>Response for MEMBER_RESOURCE_ADDRESS2/NAME/la</p> <p>}</p> | <p>IUT ← AE</p> <p>IUT → AE</p> |

TP/oneM2M/CSE/GMG/004

| | | |
|---------------------------|--|------------------|
| TP Id | TP/oneM2M/CSE/GMG/004 | |
| Test objective | Check that IUT rejects a <group>/fanOutPoint OPERATION when the Originator does not have OPERATION_PERMISSION specified in <i>accessControlPolicyIDs</i> and the <i>membersAccessControlPolicyIDs</i> is empty in the group resource. | |
| Reference | ETSI TS 118 101 [1], clause 10.2.7.7 | |
| Parent Release | Release 1 | |
| Config Id | CF01 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | <p>with { the IUT being in the "initial state" and the IUT having registered the AE and the IUT having a group resource at TARGET_RESOURCE_ADDRESS containing <i>membersAccessControlPolicyIDs</i> attribute set to empty and <i>accessControlPolicyIDs</i> attribute set to ACP_RESOURCE_ID indicating to allow the AE privileges to perform all operations except OPERATION and the IUT having a resource at MEMBER_RESOURCE_ADDRESS1 and the IUT having a resource at MEMBER_RESOURCE_ADDRESS2 }</p> | |
| Expected behaviour | Test events | Direction |
| | <p>when { the IUT receives a valid OPERATION Request from AE containing To set to TARGET_RESOURCE_ADDRESS/fopt and From set to AE-ID }</p> | IUT ← AE |
| | <p>then { the IUT sends a valid Response containing Response Status Code set to 4103 (ORIGINATOR_HAS_NO_PRIVILEGE) }</p> | IUT → AE |

| TP Id | OPERATION |
|---------------------------|-----------|
| TP/oneM2M/CSE/GMG/004_CRE | CREATE |
| TP/oneM2M/CSE/GMG/004_RET | RETRIEVE |
| TP/oneM2M/CSE/GMG/004_UPD | UPDATE |
| TP/oneM2M/CSE/GMG/004_DEL | DELETE |

TP/oneM2M/CSE/GMG/005

| | | |
|---------------------------|--|------------------|
| TP Id | TP/oneM2M/CSE/GMG/005 | |
| Test objective | Check that IUT performs an <i>OPERATION</i> request for each resource in memberIDs with no relative address appended to it. | |
| Reference | ETSI TS 118 101 [1], clause 10.2.7.7 | |
| Parent Release | Release 1 | |
| Config Id | CF01 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | <p>with { the IUT being in the "initial state" and the IUT having registered the AE and the IUT having a <group> resource at TARGET_RESOURCE_ADDRESS containing membersAccessControlPolicyIDs attribute set to allow the AE privileges to perform CREATE and memberType attribute set to AE AE and memberIDs attribute set to MEMBER_RESOURCE_ADDRESS1, MEMBER_RESOURCE_ADDRESS2 and the IUT having a resource at MEMBER_RESOURCE_ADDRESS1 containing resourceType set to AE and the IUT having a resource at MEMBER_RESOURCE_ADDRESS2 containing resourceType set to AE }</p> | |
| Expected behaviour | Test events | Direction |
| | <p>when { the IUT receives a valid CREATE Request from AE containing To set to TARGET_RESOURCE_ADDRESS/fopt and From set to AE-ID and Resource Type set to 3 (container) and Content containing container resource representation }</p> | IUT ← AE |
| | <p>then { the IUT sends a valid Response containing Response Status Code set to RESPONSE_STATUS_CODE and Content containing aggregatedResponse message containing Response for MEMBER_RESOURCE_ADDRESS1 and Response for MEMBER_RESOURCE_ADDRESS2 }</p> | IUT → AE |

| TP Id | OPERATION | RESPONSE_STATUS_CODE |
|---------------------------|------------------|-----------------------------|
| TP/oneM2M/CSE/GMG/005_CRE | CREATE | 2000 (OK) |
| TP/oneM2M/CSE/GMG/005_RET | RETRIEVE | 2000 (OK) |
| TP/oneM2M/CSE/GMG/005_UPD | UPDATE | 2000 (OK) |
| TP/oneM2M/CSE/GMG/005_DEL | DELETE | 2000 (OK) |

TP/oneM2M/CSE/GMG/006

| | | |
|---------------------------|--|---------------------------------|
| TP Id | TP/oneM2M/CSE/GMG/006 | |
| Test objective | Check that IUT performs an <i>OPERATION</i> request for each resource in memberIDs with a relative address appended to it. | |
| Reference | ETSI TS 118 101 [1], clause 10.2.7.7 | |
| Parent Release | Release 1 | |
| Config Id | CF01 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | <p>with {</p> <p>the IUT being in the "initial state"</p> <p>and the IUT having registered the AE</p> <p>and the IUT having a <group> resource at TARGET_RESOURCE_ADDRESS containing membersAccessControlPolicyIDs attribute set to allow the AE privileges to perform CREATE and memberType attribute set to AE and memberIDs attribute set to MEMBER_RESOURCE_ADDRESS1, MEMBER_RESOURCE_ADDRESS2</p> <p>and the IUT having a resource at MEMBER_RESOURCE_ADDRESS1 containing resourceType attribute set to AE</p> <p>and the IUT having a resource at MEMBER_RESOURCE_ADDRESS2 containing resourceType attribute set to AE</p> <p>and the IUT having a resource at MEMBER_RESOURCE_ADDRESS1 containing resourceType attribute set to container and resourceName attribute set to NAME</p> <p>and the IUT having a resource at MEMBER_RESOURCE_ADDRESS2 containing resourceType attribute set to container and resourceName attribute set to NAME</p> <p>}</p> | |
| Expected behaviour | Test events | Direction |
| | <p>when {</p> <p>the IUT receives a valid CREATE Request from AE containing To set to TARGET_RESOURCE_ADDRESS/fopt/NAME and From set to AE-ID and Content containing contentInstance resource representation</p> <p>}</p> <p>then {</p> <p>the IUT sends a valid Response containing Response Status Code set to RESPONSE_STATUS_CODE and Content containing aggregatedResponse message containing Response for MEMBER_RESOURCE_ADDRESS1 and Response for MEMBER_RESOURCE_ADDRESS2</p> <p>}</p> | <p>IUT ← AE</p> <p>IUT → AE</p> |

| TP Id | OPERATION | RESPONSE_STATUS_CODE |
|---------------------------|-----------|----------------------|
| TP/oneM2M/CSE/GMG/006_CRE | CREATE | 2000 (OK) |
| TP/oneM2M/CSE/GMG/006_RET | RETRIEVE | 2000 (OK) |
| TP/oneM2M/CSE/GMG/006_UPD | UPDATE | 2000 (OK) |
| TP/oneM2M/CSE/GMG/006_DEL | DELETE | 2000 (OK) |

TP/oneM2M/CSE/GMG/007

| TP Id | TP/oneM2M/CSE/GMG/007 | |
|---------------------------|--|------------------|
| Test objective | Check that the IUT denies a <group>/fanOutPoint RETRIEVE when there is no memberID in <group> resource. | |
| Reference | ETSI TS 118 104 [2], clause 7.4.14.2.4 | |
| Parent Release | Release 1 | |
| Config Id | CF01 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE and the IUT having a group resource at TARGET_RESOURCE_ADDRESS containing membersAccessControlPolicyIDs attribute set to ACP_RESOURCE_ID indicating to allow the AE to perform all operations and no memberID attribute } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid RETRIEVE Request from AE containing To set to TARGET_RESOURCE_ADDRESS/fopt and From set to AE-ID } | IUT ← AE |
| | then { the IUT sends a valid Response containing Response Status Code set to 4109 (NO_MEMBER) } | IUT → AE |

7.2.2.6 Discovery (DIS)

7.2.2.6.1 RETRIEVE Operation

TP/oneM2M/CSE/DIS/001

| | | |
|---------------------------|--|---------------------------|
| TP Id | TP/oneM2M/CSE/DIS/001 | |
| Test objective | Check that the IUT returns successfully a list all discovered resource addresses | |
| Reference | ETSI TS 118 101 [1], clause 10.2.6, ETSI TS 118 104 [2], clause 7.2.3.13 | |
| Parent Release | Release 1 | |
| Config Id | CF01 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE and the IUT having a container resource TARGET_RESOURCE_ADDRESS containing a child resource and the AE having privileges to perform DISCOVERY operation } | |
| Expected behaviour | Test events | Expected behaviour |
| | when { the IUT receives a valid RETRIEVE Request from AE containing To set to TARGET_RESOURCE_ADDRESS and From set to AE_ID and Filter Criteria containing filterUsage set to 1 (Discovery Criteria) } | |
| | then { the IUT sends a valid Response containing Response Status Code set to 2000 (OK) and Content containing URIList representation } | |

TP/oneM2M/CSE/DIS/002

| | | |
|---------------------------|--|------------------|
| TP Id | TP/oneM2M/CSE/DIS/002 | |
| Test objective | Check that the IUT returns successfully appropriate list of discovered resource when the filter criteria is provided in the request | |
| Reference | ETSI TS 118 101 [1], clause 8.1.3 and clause 10.2.6, ETSI TS 118 104 [2], clause 7.2.3.13 | |
| Parent Release | Release 1 | |
| Config Id | CF01 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE and the IUT having a container resource <i>TARGET_RESOURCE_ADDRESS</i> containing a child resource and the AE having privileges to perform RETRIEVE operation } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid RETRIEVE Request from AE containing To set to <i>TARGET_RESOURCE_ADDRESS</i> and From set to AE-ID and Filter Criteria set to <i>FILTER_CRITERIA_CONDITIONS</i> containing <i>filterUsage</i> set to 1 (Discovery Criteria) } | IUT ← AE |
| | then { the IUT sends a valid Response containing Response Status Code set to 2000 (OK) and Content containing URList representation } | IUT → AE |

TP/oneM2M/CSE/DIS/003

| | | |
|---------------------------|---|---------------------------|
| TP Id | TP/oneM2M/CSE/DIS/003 | |
| Test objective | Check that the IUT returns the empty address list when no result matching with filter criteria is discovered | |
| Reference | ETSI TS 118 101 [1], clause 8.1.3 and clause 10.2.6, ETSI TS 118 104 [2], clause 7.2.3.13 | |
| Parent Release | Release 1 | |
| Config Id | CF01 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE and the IUT having a container resource TARGET_RESOURCE_ADDRESS containing a child resource and the AE having privileges to perform RETRIEVE operation and FILTER_CRITERIA_CONDITIONS not being applicable to the IUT } | |
| Expected behaviour | Test events | Expected behaviour |
| | when { the IUT receives a valid RETRIEVE Request from AE containing To set to TARGET_RESOURCE_ADDRESS and From set to AE-ID and Filter Criteria set to FILTER_CRITERIA_CONDITIONS containing filterUsage set to 1 (Discovery Criteria) } | |
| | then { the IUT sends a valid Response containing Response Status Code set to 2000 (OK) and Content containing URList element set to empty list } | |

TP/oneM2M/CSE/DIS/004

| | | |
|---------------------------|---|---------------------------|
| TP Id | TP/oneM2M/CSE/DIS /004 | |
| Test objective | Check that the IUT returns successfully a list of discovered resource addresses with Non-hierarchical addressing form when the Discovery Result Type is provided in the request | |
| Reference | ETSI TS 118 101 [1], clause 8.1.3 and clause 10.2.6, ETSI TS 118 104 [2], clause 7.2.3.13 | |
| Config Id | CF01 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE and the IUT having a container resource <i>TARGET_RESOURCE_ADDRESS</i> containing a child resource and the AE having privileges to perform DISCOVERY operation } | |
| Expected behaviour | Test events | Expected behaviour |
| | when { the IUT receives a valid RETRIEVE Request from AE containing To set to TARGET_RESOURCE_ADDRESS and From set to AE-ID and Discovery Result Type set to 2 (unstructured) and Filter Criteria containing filterUsage set to 1 (Discovery Criteria) } | |
| | then { the IUT sends a valid Response containing Response Status Code set to 2000 (OK) and Content containing URList representation containing unstructured addresses of discovered resources } | |

TP/oneM2M/CSE/DIS/005

| | | |
|---------------------------|---|------------------|
| TP Id | TP/oneM2M/CSE/DIS/005 | |
| Test objective | Check that the IUT rejects the discovery requests to the resource TARGET_RESOURCE_ADDRESS when AE has no privilege to perform the discovery request for the resource TARGET_RESOURCE_ADDRESS | |
| Reference | ETSI TS 118 101 [1], clause 10.2.6.2 and clause 7.2.3.14, ETSI TS 118 104 [2], clause 7.3.3.14 | |
| Parent Release | Release 1 | |
| Config Id | CF01 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE and the AE having no privileges to perform RETRIEVE operation on the resource TARGET_RESOURCE_ADDRESS } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid RETRIEVE Request from AE containing To set to TARGET_RESOURCE_ADDRESS and From set to AE_ID and Filter Criteria containing filterUsage set to 1 (Discovery Criteria) } | IUT ← AE |
| | then { the IUT sends a valid Response containing Response Status Code set to 4103 (ACCESS_DENIED) } | IUT → AE |

TP/oneM2M/CSE/DIS/006

| | | |
|---------------------------|--|---------------------------|
| TP Id | TP/oneM2M/CSE/DIS/006 | |
| Test objective | Check that the IUT responds with an error when the AE sends requests to discover the resource TARGET_RESOURCE_ADDRESS which does not exist in the Hosting CSE | |
| Reference | ETSI TS 118 101 [1], clause 10.2.6.2, ETSI TS 118 104 [2], clause 7.3.3.14 | |
| Config Id | CF01 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE and the IUT having not yet created a containe resource TARGET_RESOURCE_ADDRESS } | |
| Expected behaviour | Test events | Expected behaviour |
| | when { the IUT receives a valid RETRIEVE Request from AE containing To set to TARGET_RESOURCE_ADDRESS and From set to AE_ID and Filter Criteria containing filterUsage set to 1 (Discovery Criteria) } | |
| | then { the IUT sends a valid Response containing Response Status Code set to 4004 (NOT_FOUND) } | |

TP/oneM2M/CSE/DIS/007

| | | |
|---------------------------|---|---------------------------|
| TP Id | TP/oneM2M/CSE/DIS/007 | |
| Test objective | Check that the IUT responds the originator with an error when the originator sends a request including an invalid format of filter criteria to discover the resource TARGET_RESOURCE_ADDRESS | |
| Reference | ETSI TS 118 101 [1], clause 10.2.6, ETSI TS 118 104 [2], clause 7.3.3.6 | |
| Parent Release | Release 1 | |
| Config Id | CF01 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the originator AE and the IUT having a container resource TARGET_RESOURCE_ADDRESS containing a child resource and the AE having privileges to perform DISCOVERY operation } | |
| Expected behaviour | Test events | Expected behaviour |
| | when { the IUT receives a valid RETRIEVE Request from AE containing To set to TARGET_RESOURCE_ADDRESS and From set to AE_ID and Filter Criteria set to FILTER_CRITERIA_CONDITIONS not being valid format } | IUT ← AE |
| | then { the IUT sends a valid Response containing Response Status Code set to 4102 (CONTENTS_UNACCEPTABLE) } | IUT → AE |

TP/oneM2M/CSE/DIS/008

| | | |
|---------------------------|--|------------------|
| TP Id | TP/oneM2M/CSE/DIS/008 | |
| Test objective | Check that the IUT responds the originator with an error when the originator sends a request to discover the resource TARGET_RESOURCE_ADDRESS including two conflicted filter criteria of different type FILTER_CRITERIA_CONDITION_1 and FILTER_CRITERIA_CONDITION_2 (E.G. <i>createBefore</i> < <i>createdAfter</i>) | |
| Reference | ETSI TS 118 101 [1], clause 6.2.5, ETSI TS 118 104 [2], clause 7.3.3.17 | |
| Parent Release | Release 1 | |
| Config Id | CF01 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the originator AE and the IUT having a container resource TARGET_RESOURCE_ADDRESS containing a child resource and the AE having privileges to perform RETRIEVE operation } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid RETRIEVE Request from AE containing To set to TARGET_RESOURCE_ADDRESS and From set to AE_ID and Filter Criteria containing filterUsage set to 1 (Discovery Criteria) and having conflict conditions } | IUT ← AE |
| | then { the IUT sends a valid Response containing Response Status Code set to 4102 (CONTENTS_UNACCEPTABLE) } | IUT → AE |

| TP Id | REQ Reference | FILTER_CRITERIA_CONDITION_1 | FILTER_CRITERIA_CONDITION_2 |
|-------------------------------|----------------|-----------------------------|-----------------------------|
| TP/oneM2M/CSE/DIS/008_CRB/CRA | REQ-0004-07241 | <i>createdBefore</i> | <i>createdAfter</i> |
| TP/oneM2M/CSE/DIS/008_MS/US | REQ-0004-07242 | <i>unmodifiedSince</i> | <i>modifiedSince</i> |
| TP/oneM2M/CSE/DIS/008_STS/STB | REQ-0004-07243 | <i>stateTagSmaller</i> | <i>stateTagBigger</i> |
| TP/oneM2M/CSE/DIS/008_EXB/EXA | REQ-0004-07244 | <i>expireBefore</i> | <i>expireAfter</i> |

TP/oneM2M/CSE/DIS/009

| | | |
|---------------------------|--|------------------|
| TP Id | TP/oneM2M/CSE/DIS/009 | |
| Test objective | Check that the IUT returns the empty address list when resources match the filter criteria but they do not include DISCOVERY permission. | |
| Reference | ETSI TS 118 101 [1], clause 9.6.2.3 and clause 10.2.6, ETSI TS 118 104 [2], clause 7.2.3.13 | |
| Parent Release | Release 1 | |
| Config Id | CF01 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE and the IUT having a resource TARGET_RESOURCE_ADDRESS not allowing the AE to perform DISCOVERY operation and FILTER_CRITERIA_CONDITIONS being applicable to the IUT } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid RETRIEVE Request from AE containing To set to TARGET_RESOURCE_ADDRESS and From set to AE-ID and Filter Criteria set to FILTER_CRITERIA_CONDITIONS containing filterUsage set to 1 (Discovery Criteria) } | IUT ← AE |
| | then { the IUT sends a valid Response containing Response Status Code set to 2000 (OK) and Content containing URIList element set to empty list } | IUT → AE |

7.2.2.7 Communication Management and Delivery Handling(CMDH)

7.2.2.7.1 Resource pollingChannel (PCH)

TP/oneM2M/CSE/PCH/001

| | | |
|---|--|------------------|
| TP Id | TP/oneM2M/CSE/PCH/001 | |
| Test objective | Check that the IUT which hosts <pollingChannel> resource forwards a Notify request successfully to a target AE, once the IUT receives a polling request from AE (retrieve request to <pollingChannelURI> resource) See the note below. | |
| Reference | ETSI TS 118 101 [1], clause 10.2.13.6, ETSI TS 118 104 [2], clause 7.4.22.2.2 | |
| Config Id | CF02 | |
| Parent Release | Release 2 | |
| PICS Selection | PICS_PCH | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered an AE1 and the AE having a child <pollingChannel> resource and the IUT having received a retrieve request from the AE containing To set to POLLINGCHANNELURI_RESOURCE_ADDRESS } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a NOTIFY Request from the CSE containing To set to AE_RESOURCE_ADDRESS and From set to CSE_ID } | IUT ← CSE |
| | then { the IUT sends a RETRIEVE Response to the AE containing Response Status Code set to 2000 (OK) Content containing the request received from the CSE } | IUT → AE |
| NOTE: Based on figure 10.2.13.1-1 in ETSI TS 118 101 [1] step 001, 002 and 003 in order. In this case, IUT is pending AE's polling request since there was no request to AE. | | |

TP/oneM2M/CSE/PCH/003

| | | |
|--|--|---|
| TP Id | TP/oneM2M/CSE/PCH/003 | |
| Test objective | Check that the IUT performs both forwarding the response to the CSE and sending response to AE after receiving a Notify Request from the AE sent to the <pollingChannelURI> resource | |
| Reference | ETSI TS 118 101 [1], clause 10.2.13.8, ETSI TS 118 104 [2], clause 7.4.22.2.2 | |
| Config Id | CF02 | |
| Parent Release | Release 2 | |
| PICS Selection | PICS_PCH | |
| Initial conditions | <p>with { the IUT being in the "initial state" and the IUT having registered an AE and the AE1 having a child <pollingChannel> resource and the IUT having received a retrieve Request from the AE containing To set to POLLINGCHANNELURI_RESOURCE_ADDRESS and the IUT having received a NOTIFY Request from the CSE containing To set to AE_RESOURCE_ADDRESS and From set to CSE_ID and the IUT sends a Response to the AE containing Response Status Code set to 2000 (OK) Content containing the Request received from the CSE }</p> | |
| Expected behaviour | Test events | Direction |
| | <p>when { the IUT receives a NOTIFY Request from the AE containing To set to POLLINGCHANNELURI_RESOURCE_ADDRESS and Content containing Response Status Code set to RESPONSE_STATUS_CODE }</p> <p>then { the IUT sends a Response to the CSE Response Status Code set to RESPONSE_STATUS_CODE the IUT sends the valid NOTIFY Response to the AE }</p> | <p>IUT ← AE</p> <p>IUT → CSE IUT → AE</p> |
| NOTE: Based on figure 10.2.13.1-1 in ETSI TS 118 101 [1] step 005 and 006. | | |

TP/oneM2M/CSE/RT/NBA/004

| | | |
|---------------------------|---|------------------|
| TP Id | TP/oneM2M/CSE/RT/NBA/004 | |
| Test objective | Check that the IUT does not send the result of the requested Non-Blocking Asynchronous <i>OPERATION</i> as notification to the Originator when an empty notification target list is provided | |
| Reference | ETSI TS 118 101 [1], clause 8.1.2, 8.2.2.2 | |
| Config Id | CF01 | |
| Parent Release | Release 2 | |
| PICS Selection | PICS_NON_BLOCKING_REQUEST_ASYNC | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE and the Originator having privileges to perform <i>OPERATION</i> on the resource TARGET_RESOURCE_ADDRESS } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid <i>OPERATION</i> Request from AE containing Resource Type set to 3 (container) and To set to TARGET_RESOURCE_ADDRESS and From set to AE-ID and ResponseType set to 2 (nonBlockingRequestAsynch) and NotificationURI set to empty list } | IUT ← AE |
| | then { the IUT sends a valid Response (Ack) and the IUT does not send a NOTIFY Response } | IUT → AE |

| TP Id | OPERATION |
|------------------------------|-----------|
| TP/oneM2M/CSE/RT/NBA/004_CRE | CREATE |
| TP/oneM2M/CSE/RT/NBA/004_UPD | UPDATE |
| TP/oneM2M/CSE/RT/NBA/004_RET | RETRIEVE |
| TP/oneM2M/CSE/RT/NBA/004_DEL | DELETE |

TP/oneM2M/CSE/RT/NBA/005

| | | |
|---------------------------|--|---|
| TP Id | TP/oneM2M/CSE/RT/NBA/005 | |
| Test objective | Check that the IUT sends the result of the requested Non-Blocking Asynchronous <i>OPERATION</i> as notification to the notification targets indicated in responseType/notificationURI attribute of the request | |
| Reference | ETSI TS 118 101 [1], clauses 8.1.2, 8.2.2.2 | |
| Config Id | CF01 | |
| Parent Release | Release 2 | |
| PICS Selection | PICS_NON_BLOCKING_REQUEST_ASYNC | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE1 and the IUT having registered the AE2 and the AE1 having privileges to perform <i>OPERATION</i> on the resource TARGET_RESOURCE_ADDRESS } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid <i>OPERATION</i> Request from AE containing Resource Type set to 3 (container) and To set to TARGET_RESOURCE_ADDRESS and From set to AE-ID and Response Type parameter containing responseTypeValue set to 2 (nonBlockingRequestAsynch) and NotificationURI set to AE1_RESOURCE_ADDRESS and AE2_RESOURCE_ADDRESS } | IUT ← AE |
| | then { the IUT sends a valid Response (Ack) and the IUT sends a valid NOTIFY Request containing to AE1 Content containing ResponsePrimitive representation indicating the response of the original Non-Blocking Asynchronous <i>OPERATION</i> containing Response Status Code set to RESPONSE_STATUS_CODE and the IUT sends a valid NOTIFY Request containing to AE2 Content containing ResponsePrimitive representation indicating the response of the original Non-Blocking Asynchronous <i>OPERATION</i> containing Response Status Code set to RESPONSE_STATUS_CODE } | IUT → AE1 IUT → AE1 IUT → AE2 |

| TP Id | OPERATION | RESPONSE_STATUS_CODE |
|------------------------------|-----------|----------------------|
| TP/oneM2M/CSE/RT/NBA/005_CRE | CREATE | 2001 (CREATED) |
| TP/oneM2M/CSE/RT/NBA/005_UPD | UPDATE | 2004 (UPDATED) |
| TP/oneM2M/CSE/RT/NBA/005_RET | RETRIEVE | 2000 (OK) |
| TP/oneM2M/CSE/RT/NBA/005_DEL | DELETE | 2002 (DELETED) |

7.2.2.7.2.3 BlockingRequest (BR)

TP/oneM2M/CSE/RT/BR/001

| | | |
|---------------------------|---|------------------|
| TP Id | TP/oneM2M/CSE/RT/BR/001 | |
| Test objective | Check that the IUT responds successfully to a Blocking Request <i>OPERATION</i> | |
| Reference | ETSI TS 118 101 [1], clause 8.2.1 | |
| Config Id | CF01 | |
| Parent Release | Release 2 | |
| PICS Selection | | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE and the Originator having privileges to perform <i>OPERATION</i> on the resource TARGET_RESOURCE_ADDRESS } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid <i>OPERATION</i> Request from AE containing Resource Type set to 3 (container) and To set to TARGET_RESOURCE_ADDRESS and From set to AE-ID and ResponseType set to 3 (blockingRequest) } | IUT ← AE |
| | then { the IUT sends a valid Response containing Response Status Code set to <i>RESPONSE_STATUS_CODE</i> } | IUT → AE |

| TP Id | OPERATION | RESPONSE_STATUS_CODE |
|-----------------------------|-----------|----------------------|
| TP/oneM2M/CSE/RT/BR/001_CRE | CREATE | 2001 (CREATED) |
| TP/oneM2M/CSE/RT/BR/001_UPD | UPDATE | 2004 (UPDATED) |
| TP/oneM2M/CSE/RT/BR/001_RET | RETRIEVE | 2000 (OK) |
| TP/oneM2M/CSE/RT/BR/001_DEL | DELETE | 2002 (DELETED) |

7.2.2.8 Security(SEC)

7.2.2.8.1 CREATE Operation

TP/oneM2M/CSE/SEC/ACP/CRE/001

| | | |
|---------------------------|--|------------------|
| TP Id | TP/oneM2M/CSE/SEC/ACP/CRE/001 | |
| Test objective | Check that the IUT accepts the creation of a accessControlPolicy resource with privileges attribute having multiple access control rules | |
| Reference | ETSI TS 118 101 [1], clause 9.6.2 and clause 10.2.21 | |
| Config Id | CF01 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE and the AE having privileges to perform CREATE operation on the resource TARGET_RESOURCE_ADDRESS } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid CREATE Request containing To set to TARGET_RESOURCE_ADDRESS and From set to AE_ID and Content containing accessControlPolicy resource containing privileges attribute containing accessControlRule attribute containing ACCESS_CONTROL_RULE_1 and ACCESS_CONTROL_RULE_2 } | IUT ← AE |
| | then { the IUT creates the accessControlPolicy resource and the IUT sends a valid Response containing Response Status Code set to 2001 (CREATED) } | IUT → AE |

TP/oneM2M/CSE/SEC/ACP/CRE/002

| | | |
|---------------------------|--|------------------|
| TP Id | TP/oneM2M/CSE/SEC/ACP/CRE/002 | |
| Test objective | Check that the IUT accepts the creation of a accessControlPolicy resource with selfPrivileges attribute having multiple access control rules | |
| Reference | ETSI TS 118 101 [1], clause 9.6.2 and clause 10.2.21 | |
| Config Id | CF01 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE and the AE having privileges to perform CREATE operation on the resource TARGET_RESOURCE_ADDRESS } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid CREATE Request containing To set to TARGET_RESOURCE_ADDRESS and From set to AE_ID and Content containing accessControlPolicy resource containing selfPrivileges attribute containing accessControlRule attribute containing ACCESS_CONTROL_RULE_1 and ACCESS_CONTROL_RULE_2 } | IUT ← AE |
| | then { the IUT creates the accessControlPolicy resource and the IUT sends a valid Response containing Response Status Code set to 2001 (CREATED) } | IUT → AE |

TP/oneM2M/CSE/SEC/ACP/CRE/003

| | | |
|---------------------------|---|------------------|
| TP Id | TP/oneM2M/CSE/SEC/ACP/CRE/003 | |
| Test objective | Check that the IUT accepts the creation of a accessControlPolicy resource with privileges attribute having empty rules | |
| Reference | ETSI TS 118 101 [1], clause 9.6.2 and clause 10.2.21 | |
| Config Id | CF01 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE and the AE having privileges to perform CREATE operation on the resource TARGET_RESOURCE_ADDRESS } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid CREATE Request containing To set to TARGET_RESOURCE_ADDRESS and From set to AE_ID and Content containing accessControlPolicy resource containing privileges attribute set to empty list } | IUT ← AE |
| | then { the IUT creates the accessControlPolicy resource and the IUT sends a valid Response containing Response Status Code set to 2001 (CREATED) } | IUT → AE |

TP/oneM2M/CSE/SEC/ACP/002

| | | |
|---------------------------|---|------------------|
| TP Id | TP/oneM2M/CSE/SEC/ACP/014 | |
| Test objective | Check that the IUT responds successfully when the AE tries an <i>OPERATION</i> on its <AE> resource which has multiple accessControlPolicyID attribute | |
| Reference | ETSI TS 118 101 [1], table 9.6.1.3.2-1 and table 9.6.2.1-1 | |
| Config Id | CF01 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE and the AE having a child <Container> resource containing accessControlPolicyID attribute containing ACP_ID_1 and ACP_ID_2 and the AE having privileges to perform an <i>OPERATION</i> on itself given by ACP_ID_2 only } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid <i>OPERATION</i> Request containing To set to AE_RESOURCE_ADDRESS and From set to AE_ID } | IUT ← AE |
| | then { the IUT sends a valid Response containing Response Status Code set to RESPONSE_STATUS_CODE } | IUT → AE |

| TP Id | OPERATION | RESPONSE_STATUS_CODE |
|-------------------------------|-----------|----------------------|
| TP/oneM2M/CSE/SEC/ACP/002_CRE | CREATE | 2001 (CREATED) |
| TP/oneM2M/CSE/SEC/ACP/002_RET | RETRIEVE | 2000 (OK) |
| TP/oneM2M/CSE/SEC/ACP/002_UPD | UPDATE | 2004 (UPDATED) |
| TP/oneM2M/CSE/SEC/ACP/002_DEL | DELETE | 2002 (DELETED) |

TP/oneM2M/CSE/SEC/ACP/003

| | | |
|---------------------------|---|------------------|
| TP Id | TP/oneM2M/CSE/SEC/ACP/003 | |
| Test objective | Check that the IUT responds successfully when an allowed DOMAIN tries an <i>OPERATION</i> on a <i>AE_RESOURCE_TYPE</i> resource. | |
| Reference | ETSI TS 118 101 [1], clause 9.6.2.1 | |
| Config Id | CF01 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE and the DOMAIN having privileges to perform an <i>OPERATION</i> on the resource <i>AE_RESOURCE_ADDRESS</i> } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid <i>OPERATION</i> Request containing To set to <i>AE_RESOURCE_ADDRESS</i> and From set to DOMAIN } | IUT ← DOMAIN |
| | then { the IUT sends a valid Response containing Response Status Code set to <i>RESPONSE_STATUS_CODE</i> } | IUT → DOMAIN |

| TP Id | OPERATION | RESPONSE_STATUS_CODE |
|-------------------------------|------------------|-----------------------------|
| TP/oneM2M/CSE/SEC/ACP/003_CRE | CREATE | 2001 (CREATED) |
| TP/oneM2M/CSE/SEC/ACP/003_RET | RETRIEVE | 2000 (OK) |
| TP/oneM2M/CSE/SEC/ACP/003_UPD | UPDATE | 2004 (UPDATED) |
| TP/oneM2M/CSE/SEC/ACP/003_DEL | DELETE | 2002 (DELETED) |

TP/oneM2M/CSE/SEC/ACP/004

| | | |
|---------------------------|--|---------------------|
| TP Id | TP/oneM2M/CSE/SEC/ACP/004 | |
| Test objective | Check that the IUT responds successfully when any ORIGINATOR tries an <i>OPERATION</i> on a <i>AE_RESOURCE_TYPE</i> resource for which all originators are allowed | |
| Reference | ETSI TS 118 101 [1], clause 9.6.2.1 | |
| Config Id | CF01 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE and any originator (*) having privileges to perform an <i>OPERATION</i> on the resource <i>AE_RESOURCE_ADDRESS</i> } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid <i>OPERATION</i> Request containing To set to <i>AE_RESOURCE_ADDRESS</i> and From set to ORIGINATOR } | IUT ← ORIGINATOR |
| | then { the IUT sends a valid Response containing Response Status Code set to <i>RESPONSE_STATUS_CODE</i> } | IUT → ORIGINATOR |

| TP Id | OPERATION | RESPONSE_STATUS_CODE |
|-------------------------------|------------------|-----------------------------|
| TP/oneM2M/CSE/SEC/ACP/004_CRE | CREATE | 2001 (CREATED) |
| TP/oneM2M/CSE/SEC/ACP/004_RET | RETRIEVE | 2000 (OK) |
| TP/oneM2M/CSE/SEC/ACP/004_UPD | UPDATE | 2004 (UPDATED) |
| TP/oneM2M/CSE/SEC/ACP/004_DEL | DELETE | 2002 (DELETED) |

TP/oneM2M/CSE/SEC/ACP/008

| | | |
|---------------------------|---|------------------|
| TP Id | TP/oneM2M/CSE/SEC/ACP/008 | |
| Test objective | Check that the IUT responds with an error when the AE tries an <i>OPERATION</i> on a AE_RESOURCE_TYPE resource out of accessControlLocationRegion context. | |
| Reference | ETSI TS 118 101 [1], table 9.6.2.2-1 | |
| Config Id | CF01 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE and the AE having privileges to perform <i>OPERATION</i> on the AE_RESOURCE_ADDRESS within LOCATION_RESTRICTION } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid <i>OPERATION</i> Request containing To set to AE_RESOURCE_ADDRESS and From set to AE_ID out of LOCATION_RESTRICTION } | IUT ← AE |
| | then { the IUT sends a valid Response containing Response Status Code set to 4103 (ACCESS_DENIED) } | IUT → AE |

| TP Id | OPERATION |
|-------------------------------|-----------|
| TP/oneM2M/CSE/SEC/ACP/008_CRE | CREATE |
| TP/oneM2M/CSE/SEC/ACP/008_RET | RETRIEVE |
| TP/oneM2M/CSE/SEC/ACP/008_UPD | UPDATE |
| TP/oneM2M/CSE/SEC/ACP/008_DEL | DELETE |

TP/oneM2M/CSE/SEC/ACP/012

| | | |
|---------------------------|--|--|
| TP Id | TP/oneM2M/CSE/SEC/ACP/012 | |
| Test objective | Check that the IUT responds with an error when an ORIGINATOR tries an <i>OPERATION</i> on a <Container> resource with no accessControlPolicyID associated and such ORIGINATOR having no privileges for performing the <i>OPERATION</i> on the <Container> resource. | |
| Reference | ETSI TS 118 101 [1], table 9.6.1.3.2-1 | |
| Config Id | CF01 | |
| Parent Release | Release 1 | |
| PICS Selection | PICS_CSE, PICS_ACP_SUPPORT | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE and the AE having a child <Container> resource containing no accessControlPolicyID attribute and the ORIGINATOR having no privileges to perform an <i>OPERATION</i> on the <Container> resource } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid <i>OPERATION</i> Request containing To set to CONTAINER_RESOURCE_ADDRESS and From set to ORIGINATOR_ID } then { the IUT sends a valid Response containing Response Status Code set to 4103 (ACCESS_DENIED) } | IUT ← ORIGINATOR IUT → ORIGINATOR |

| TP Id | OPERATION |
|-------------------------------|-----------|
| TP/oneM2M/CSE/SEC/ACP/012_CRE | CREATE |
| TP/oneM2M/CSE/SEC/ACP/012_RET | RETRIEVE |
| TP/oneM2M/CSE/SEC/ACP/012_UPD | UPDATE |
| TP/oneM2M/CSE/SEC/ACP/012_DEL | DELETE |

7.2.2.9 FlexContainer

7.2.2.9.1 CREATE Operation

TP/oneM2M/CSE/FLXC/CRE/001

| | | |
|---------------------------|---|------------------|
| TP Id | TP/oneM2M/CSE/FLXC/CRE/001 | |
| Test objective | Check that the IUT rejects the creation of the <flexContainer> resource when the resource representation does not comply with the schema definition. | |
| Reference | ETSI TS 118 101 [1], clause 10.2.29, ETSI TS 118 104 [2], clause 7.4.29.2.1 | |
| Parent Release | Release 2 | |
| Config Id | CF01 | |
| PICS Selection | PICS_CSE, | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE and the AE having privileges to perform CREATE operation on the resource AE_RESOURCE_ADDRESS } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives an invalid CREATE request from AE containing To set to AE_RESOURCE_ADDRESS and From set to AE_ID and Resource Type set to 28 (flexContainer) and Content containing an invalid resource representation } | IUT ← AE |
| | then { the IUT does not create the flexContainer resource and the IUT sends a valid Response containing Response Status Code set to 4000 (BAD_REQUEST) } | IUT → AE |

7.2.2.9.2 UPDATE Operation

TP/oneM2M/CSE/FLXC/UPD/001

| | | |
|---------------------------|--|------------------|
| TP Id | TP/oneM2M/CSE/FLXC/UPD/001 | |
| Test objective | Check that the IUT increments the field value of attribute <i>stateTag</i> in the <flexContainer> resource when a custom attribute of the resource is modified. | |
| Reference | ETSI TS 118 101 [1], clause 9.6.35 | |
| Config Id | CF01 | |
| Parent Release | Release 2 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | <p>with { the IUT being in the "initial state" and the IUT having registered the AE containing a container resource FLEXCONTAINER_RESOURCE_ADDRESS containing stateTag attribute and the AE having privileges to perform UPDATE operation on the resource FLEXCONTAINER_RESOURCE_ADDRESS }</p> | |
| Expected behaviour | Test events | Direction |
| | <p>when { the IUT receives a valid UPDATE Request from AE containing To set to FLEXCONTAINER_RESOURCE_ADDRESS and From set to AE_ID and Content containing flexContainer resource containing ATTRIBUTE_NAME attribute set to VALUE }</p> | IUT ← AE |
| | <p>then { the IUT increments the stateTag attribute of FLEXCONTAINER_RESOURCE_ADDRESS resource and the IUT sends a valid Response containing Response Status Code set to 2004 (UPDATED) }</p> | IUT → AE |

TP/oneM2M/CSE/FLXC/UPD/002

| | | |
|---------------------------|---|------------------|
| TP Id | TP/oneM2M/CSE/FLXC/UPD/002 | |
| Test objective | Check that the IUT does not increment the field value of attribute <i>stateTag</i> in the <flexContainer> resource when a common attribute of the resource is modified. | |
| Reference | ETSI TS 118 101 [1], clause 9.6.35 | |
| Config Id | CF01 | |
| Parent Release | Release 2 | |
| PICS Selection | PICS_CSE | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE containing a container resource FLEXCONTAINER_RESOURCE_ADDRESS containing stateTag attribute and the AE having privileges to perform UPDATE operation on the resource FLEXCONTAINER_RESOURCE_ADDRESS } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives a valid UPDATE Request from AE containing To set to FLEXCONTAINER_RESOURCE_ADDRESS and From set to AE_ID and Content containing flexContainer resource containing ATTRIBUTE_NAME attribute set to VALUE } | IUT ← AE |
| | then { the IUT does not increment the stateTag attribute of FLEXCONTAINER resource and the IUT sends a valid Response containing Response Status Code set to 2004 (UPDATED) } | IUT → AE |

TP/oneM2M/CSE/FLXC/UPD/003

| | | |
|---------------------------|--|------------------|
| TP Id | TP/oneM2M/CSE/FLXC/UPD/003 | |
| Test objective | Check that the IUT rejects the update of the <flexContainer> resource when the resource representation does not comply with the schema definition. | |
| Reference | ETSI TS 118 101 [1], clause 10.2.29, ETSI TS 118 104 [2], clause 7.4.29.2.3 | |
| Parent Release | Release 2 | |
| Config Id | CF01 | |
| PICS Selection | PICS_CSE, | |
| Initial conditions | with { the IUT being in the "initial state" and the IUT having registered the AE and the AE having privileges to perform UPDATE operation on the resource FLXC_RESOURCE_ADDRESS } | |
| Expected behaviour | Test events | Direction |
| | when { the IUT receives an invalid UPDATE request from AE containing To set to FLXC_RESOURCE_ADDRESS and From set to AE_ID and Content containing flexContainer resource containing an invalid resource representation } | IUT ← AE |
| | then { the IUT does not update the flexContainer resource and the IUT sends a valid Response containing Response Status Code set to 4000 (BAD_REQUEST) } | IUT → AE |

Annex A (informative): Conformance Test Requirement

A.1 MQTT Protocol Conformance Test Requirement

| Test Items | | TS Clause | Obligation | Condition for Optional Item | Checking point | Fail condition |
|-------------------------|------------|-------------------------------------|-------------|---|---|---|
| Commonly Repeated Items | | ETSI TS 118 110 [5], clause 5.1 | Mandatory | | "QoS=1" | Fail when QoS is other than "1" |
| | | ETSI TS 118 110 [5], clause 5.1 | Mandatory | | "Retain" flag set as "0" | Fail if DUT sends with "Retain" flag=1 |
| Connection Items | Connect | ETSI TS 118 110 [5], clause 6.3 | Mandatory | | Prefix A:: or C:: is added to the ID | Fail if Prefix A:: or C:: are not added to the ID |
| | | ETSI TS 118 110 [5], clause 6.3 | Mandatory | | if Clean session (ex: Retain) flag is set to "False" in CONNECT | Fail when clean session is "True" when DUT want to be connected |
| | | ETSI TS 118 110 [5], clause 6.3 | Mandatory | | if "Will Flag" is not set in CONNECT | Fail when will flag is enabled |
| | Disconnect | ETSI TS 118 110 [5], clause 6.3 | Mandatory | | if Clean session (ex: Retain) flag is set to "True" in CONNECT | Fail when clean session is "False" when DUT want to be disconnected |
| Subscription Items | | ETSI TS 118 110 [5], clause 5.1 | Mandatory | | if the message is set to Durable | Fail if the message is not Durable |
| | | ETSI TS 118 110 [5], clause 6.4.4 | Conditional | (for Initial Registration) when Originator does not know its ID | if DUT's Initial ID assigning /oneM2M/reg_req/<originator>/<receiver> oneM2M/reg_resp/<originator>/<receiver> | Fail if DUT's ID assigning is other than this |
| Publish Item | | ETSI TS 118 110 [5], Figure 6.4.5-2 | Conditional | when Originator knows its ID | if DUT's Initial ID assigning oneM2M/reg/<Originator>/<Receiver> | Fail if DUT's ID assigning is other than this |
| | | ETSI TS 118 110 [5], Figure 6.4.5-2 | Conditional | When Originator uses wild card | if DUT's Initial ID assigning oneM2M/reg/+/<Receiver> | Fail if DUT's ID assigning is other than this |
| | | ETSI TS 118 110 [5], Clause 6.5.1 | Conditional | | if the has proper Primitive contents ("op", "fr", "to", "ri", "pc", "ty") | Fail if any of primitive contents feature wrong |
| Reception Item | | ETSI TS 118 110 [5], Figure 6.4.5-2 | Conditional | when Originator knows its ID | if DUT's Initial ID assigning oneM2M/resp/<Originator>/<Receiver> | Fail if DUT's ID assigning is other than this |
| | | ETSI TS 118 110 [5], Figure 6.4.5-2 | Conditional | When Originator uses wild card | if DUT's Initial ID assigning oneM2M/resp/<Originator>/+ | Fail if DUT's ID assigning is other than this |
| | | ETSI TS 118 110 [5], Figure 6.4.5-2 | Conditional | | server Delete received contents properly not storing data | Fail if Receiver stores message |

| Test Items | TS Clause | Obligation | Condition for Optional Item | Checking point | Fail condition |
|------------|--|-------------|-----------------------------|--|--|
| | ETSI TS 118 110 [5], Figure 6.4.5-2 | Conditional | | If the receiver sends PubACK when receives messages | Fail if the receiver does not send PubACK |
| | ETSI TS 118 110 [5], Clause 6.5.1 | Mandatory | | if the has proper Primitive contents ("op", "fr", "to", "ri", "pc", "ty") | Fail if any of primitive contents feature wrong |

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Annex B (informative): TP template

| TP Id | | |
|--------------------|-------------|-----------|
| Test objective | | |
| Reference | | |
| Config Id | | |
| PICS Selection | | |
| Initial conditions | | |
| Expected behaviour | Test events | Direction |
| | when { } | IUT ← AE |
| | then { } | IUT → AE |

History

| Document history | | |
|-------------------------|---------------|-------------|
| V2.13.1 | December 2020 | Publication |
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