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| CHANGE REQUEST |
| Meeting ID:\* | TDE # 50.3 |
| Source:\* | TF-oneM2M |
| Date:\* | 2021-07-28 |
| Reason for Change/s:\* | New TPs for Flex Container release 4 |
| CR against: Release\* | Release 4 |
| CR against: WI\* | [ ]  Active <Work Item number> [ ]  MNT maintenance / < Work Item number(optional)>Is this a mirror CR? Yes [ ]  No [ ] mirror CR number: (Note to Rapporteur - use latest agreed revision)[ ]  STE Small Technical Enhancements / < Work Item number (optional)>Only ONE of the above shall be ticked |
| CR against: TS/TR\* | TS-0018 V4.3.0 |
| Clauses \* |  |
| Type of change: \* | [ ]  Editorial change[ ]  Bug Fix or Correction[ ]  Change to existing feature or functionality[x]  New feature or functionalityOnly ONE of the above shall be ticked |
| Other TS/TR(s) impacted | <TS/TR number>, <Version Number>, and <Description on which aspect should be reflected in this TS/TR> |
| Post Freeze checking:\* | This CR contains only essential changes and corrections? YES [x]  NO [ ] This CR may break backwards compatibility with the last approved version of the TS? YES [ ]  NO [x]  |
| Template Version: January 2020 (do not modify) |

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GUIDELINES for Change Requests:

Provide an informative introduction containing the problem(s) being solved, and a summary list of proposals.

Each CR should contain changes related to only one particular issue/problem.

If this is a correction, and the change applies to previous releases, a separate “mirror CR” should be posted at the same time as this CR

Mirror CR: applies only when the text, including clause numbering are exactly the same.

Companion CR: applies when the change means the same but the baselines differ in some way (e.g. clause number).

Follow the principle of completeness, where all changes related to the issue or problem within a deliverable are simultaneously proposed to be made e.g. a change impacting 5 tables should not only include a proposal to change only 3 tables. Include any changes to references, definitions, and abbreviations in the same deliverable.

Follow the drafting rules.

All pictures must be editable.

Check spelling and grammar.

Use change bars for modifications.

The change should include the current and surrounding clauses to clearly show where a change is located and to provide technical context of the proposed change. Additions of complete clauses need not show surrounding clauses as long as the proposed clause number clearly shows where the proposed new clause is located.

Multiple changes in a single CR shall be clearly separated by horizontal lines with embedded text such as, start of change 1, end of change 1, start of new clause, end of new clause.

When subsequent changes are made to the content of a CR, then the accepted version should not show changes over changes. The accepted version of the CR should only show changes relative to the baseline approved text.

## Introduction

New TPs for Flex Container Release 4.

### -----------------------Start of change 1-------------------------------------------

7.2.2.13.1 CREATE Operation

TP/oneM2M/CSE/FLXC/CRE/002

|  |  |
| --- | --- |
| **TP Id** | TP/oneM2M/CSE/FLXC/CRE/002 |
| **Test objective** | Check that the IUT rejects the CREATE request of <flexContainer> resource when the containerDefinition attribute does not include the schema value to validate the received resource representation |
| **Reference** | TS-0001 [1], clause 10.1.2 and 10.2.4.16, TS-0004 [2], clause 7.4.37.2.1 |
| **Config Id** | CF03 |
| **Parent Release** | Release 4 |
| **PICS Selection** | PICS\_CSE |
| **Initial conditions** | **with {** the IUT **being** in the "initial state" **and** the IUT **having registered** an AE **and** the IUT **being** a hosting CSE the AE **having** privileges to perform CREATE operation on  TARGET\_RESOURCE\_ADDRESS**}** |
| **Expected behaviour** | **Test events** | **Direction** |
| **when {** the IUT **receives** a valid CREATE Request from AE **containing** Resource Type **set to** 28 (flexContainer) To **set to** TARGET \_RESOURCE\_ADDRESS **and** From **set to** AE\_ID Content **containing** flexContainer resource **containing** containerDefinition **set to** UNAVAILABLE\_SCHEMA**}** | IUT 🡨 AE |
| **then {** the IUT **does not create** the flexContainer resource **and** the IUT **sends** a valid Response **containing**  Response Status Code **set to** 4125 (SPECIALIZATION\_SCHEMA\_NOT\_FOUND)**}** | AE 🡨 IUT |

TP/oneM2M/CSE/FLXC/CRE/003

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| --- | --- |
| **TP Id** | TP/oneM2M/CSE/FLXC/CRE/003 |
| **Test objective** | Check that the IUT rejects the CREATE request of <flexContainer> resource when value of contentSize attribute is greater than maxByteSize attribute |
| **Reference** | TS-0001 [1], clause 10.1.2 and 10.2.4.16, TS-0004 [2], clause 7.4.37.2.1 |
| **Config Id** | CF03 |
| **Parent Release** | Release 4 |
| **PICS Selection** | PICS\_CSE |
| **Initial conditions** | **with {** the IUT **being** in the "initial state" **and** the IUT **having registered** an AE **and** the IUT **being** a hosting CSE  the AE **having** privileges to perform CREATE operation on  TARGET\_RESOURCE\_ADDRESS**}** |
| **Expected behaviour** | **Test events** | **Direction** |
| **when {** the IUT **receives** a valid CREATE Request from AE **containing** Resource Type **set to** 28 (flexContainer) To **set to** TARGET \_RESOURCE\_ADDRESS **and** From **set to** AE\_ID **and** Content **containing** flexContainer resource **containing** maxNrOfInstances **set to** non-zero value **and** a valid maxByteSize **and** a validCUSTOM\_ATTRIBUTE\_1, and CUSTOM\_ATTRIBUTE\_2 with total byte size **greater than** maxByteSize**}** | IUT 🡨 AE |
| **then {** the IUT **does not create** the flexContainer resource **and** the IUT **sends** a valid Response **containing** Response Status Code **set to** 5207 (NOT\_ACCEPTABLE)**}** | AE 🡨 IUT |

TP/oneM2M/CSE/FLXC/CRE/004

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| **TP Id** | TP/oneM2M/CSE/FLXC/CRE/004 |
| **Test objective** | Check that the IUT successfully creates the <flexContainer> resource and its child <flexcontainerInstance> resource when *ATTRIBUTE* attribute of <flexContainer> resource is present with a non-zero value in the request |
| **Reference** | TS-0001 [1], clause 10.1.2 and 10.2.4.16, TS-0004 [2], clause 7.4.37.2.1 |
| **Config Id** | CF03 |
| **Parent Release** | Release 4 |
| **PICS Selection** | PICS\_CSE |
| **Initial conditions** | **with {** the IUT **being** in the "initial state" **and** the IUT **having registered** an AE **and** the IUT **being** a hosting CSE  **and** the AE **having** privileges to perform CREATE operation on  TARGET\_RESOURCE\_ADDRESS**}** |
| **Expected behaviour** | **Test events** | **Direction** |
| **when {** the IUT **receives** a valid CREATE Request from AE **containing**  Resource Type **set to** 28 (flexContainer) To **set to** TARGET \_RESOURCE\_ADDRESS **and** From **set to** AE\_ID Content **containing** flexContainer resource **containing**a valid *ATTRIBUTE* attribute **set to** non-zero value**}** | IUT 🡨 AE |
| **then {** the IUT **creates** the <flexContainer> resource **and** the IUT **creates** the child <flexContainerInstance> resource **and** the IUT **sends** a valid Response **containing**  Response Status Code **set to** 2001 (CREATED)**}** | AE 🡨 IUT |

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| **TP Id** | **ATTRIBUTE** |
| TP/oneM2M/CSE/FLXC/CRE/004/MNI | maxNrOfInstances |
| TP/oneM2M/CSE/FLXC/CRE/004/MBS | maxByteSize |
| TP/oneM2M/CSE/FLXC/CRE/004/MIA | *maxInstanceAge* |

7.2.2.13.2 UPDATE Operation

TP/oneM2M/CSE/FLXC/UPD/004

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| --- | --- |
| **TP Id** | TP/oneM2M/CSE/DMR/UPD/004 |
| **Test objective** | Check that the IUT rejects the UPDATE request of <flexContainer> resource when the size value of the customAttributesexceeds the value specified in the maxByteSize attribute |
| **Reference** | TS-0001 [1], clause 10.1.4 and 10.2.4.18, TS-0004 [2], clause 7.4.37.2.3 |
| **Config Id** | CF03 |
| **Parent Release** | Release 4 |
| **PICS Selection** | PICS\_CSE |
| **Initial conditions** | **with {**the IUT **being** in the "initial state" **and** the IUT **having registered** an AE **and** the IUT **being** a hosting CSE  **and** the IUT **having** a <flexContainer> resource at TARGET\_RESOURCE\_ADDRESS **containing**  a valid maxByteSize attribute**and** the AE **having** privileges to perform UPDATE operation on  TARGET\_RESOURCE\_ADDRESS**}** |
| **Expected behaviour** | **Test events** | **Direction** |
| **when {**the IUT **receives** a valid UPDATE Request from AE **containing**Resource Type **set to** 28 (flexContainer) To **set to** TARGET \_RESOURCE\_ADDRESS **and**From **set to** AE\_IDflexcontainer resource **containing**a valid CUSTOM\_ATTRIBUTE\_1*,* and CUSTOM\_ATTRIBUTE\_2 with total byte size **greater than** maxByteSize**}** | IUT 🡨 AE |
| **then {**the IUT **sends** a valid Response **containing**Response Status Code **set to** 5207 (NOT\_ACCEPTABLE) **}** | AE 🡨 IUT |

TP/oneM2M/CSE/FLXC/UPD/005

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| **TP Id** | TP/oneM2M/CSE/FLXC/UPD/005 |
| **Test objective** | Check that IUT updates the <flexContainer> resource and creates its new child <flexContainerInstance> resource when request contains a custom attribute of the targeted <flexContainer> resource |
| **Reference** | TS-0001 [1], clause 10.1.4 and 10.2.4.18, TS-0004 [2], clause 7.4.37.2.3 |
| **Config Id** | CF03 |
| **Parent Release** | Release 4 |
| **PICS Selection** | PICS\_CSE |
| **Initial conditions** | **with {**the IUT **being** in the "initial state" **and** the IUT **having registered** an AE **and** the IUT **being** a hosting CSE  **and** the IUT **having** a <flexContainer> resource at  TARGET\_RESOURCE\_ADDRESS **containing**a valid *ATTRIBUTE* attribute **and** the AE **having** privileges to perform UPDATE operation on  TARGET\_RESOURCE\_ADDRESS**}** |
| **Expected behaviour** | **Test events** | **Direction** |
| **when {**the IUT **receives** a valid UPDATE Request from AE **containing** Resource Type **set to** 28 (flexContainer)To **set to** TARGET \_RESOURCE\_ADDRESS **and**From **set to** AE\_IDContent **containing**flexcontainer resource **containing** a valid CUSTOM\_ATTRIBUTE attribute**}** | IUT 🡨 AE |
| **then {**the IUT **updates** the <flexContainer> resource **and** the IUT **creates** the child <flexContainerInstance> resource **and** the IUT **sends** a valid Response **containing**  Response Status Code **set to** 2004 (UPDATED) **}** | AE 🡨 IUT |

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| **TP Id** | **ATTRIBUTE** |
| TP/oneM2M/CSE/FLXC/UPD/005/MNI | maxNrOfInstances |
| TP/oneM2M/CSE/FLXC/UPD/005/MBS | maxByteSize |
| TP/oneM2M/CSE/FLXC/UPD/005/MIA | *maxInstanceAge* |

TP/oneM2M/CSE/FLXC/UPD/006

|  |  |
| --- | --- |
| **TP Id** | TP/oneM2M/CSE/FLXC/UPD/006 |
| **Test objective** | Check that IUT updates the <flexContainer> resource and creates its new child <flexContainerInstance> resource when request contains no custom attribute of the targeted <flexContainer> resource |
| **Reference** | TS-0001 [1], clause 10.1.4 and 10.2.4.18, TS-0004 [2], clause 7.4.37.2.3 |
| **Config Id** | CF03 |
| **Parent Release** | Release 4 |
| **PICS Selection** | PICS\_CSE |
| **Initial conditions** | **with {**the IUT **being** in the "initial state" **and** the IUT **having registered** an AE **and** the IUT **being** a hosting CSE  **and** the IUT **having** a <flexContainer> resource at  TARGET\_RESOURCE\_ADDRESS **containing**a valid *ATTRIBUTE* attribute**and** the AE **having** privileges to perform UPDATE operation on  TARGET\_RESOURCE\_ADDRESS**}**  |
| **Expected behaviour** | **Test events** | **Direction** |
| **when {**the IUT **receives** a valid UPDATE Request from AE **containing** Resource Type **set to** 28 (flexContainer)To **set to** TARGET \_RESOURCE\_ADDRESS **and**From **set to** AE\_ID **and** no Content**}** | IUT 🡨 AE |
| **then {**the IUT **updates** the <flexContainer> resource **and** the IUT **creates** the child <flexContainerInstance> resource **and** the IUT **sends** a valid Response **containing**  Response Status Code **set to** 2004 (UPDATED) **}** | AE 🡨 IUT |

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| --- | --- |
| **TP Id** | **ATTRIBUTE** |
| TP/oneM2M/CSE/FLXC/UPD/006/MNI | maxNrOfInstances |
| TP/oneM2M/CSE/FLXC/UPD/006/MBS | maxByteSize |
| TP/oneM2M/CSE/FLXC/UPD/006/MIA | *maxInstanceAge* |

TP/oneM2M/CSE/FLXC/UPD/007

|  |  |
| --- | --- |
| **TP Id** | TP/oneM2M/CSE/FLXC/UPD/007 |
| **Test objective** | Check that the IUT updates the currentNrOfInstances and currentByteSize attributes of the <flexContainer> resource when the UPDATE request creates, modifies or deletes the *ATTRIBUTE* attribute of the <flexContainer> resource |
| **Reference** | TS-0001 [1], clause 10.1.4 and 10.2.4.18, TS-0004 [2], clause 7.4.37.2.3 |
| **Config Id** | CF03 |
| **Parent Release** | Release 4 |
| **PICS Selection** | PICS\_CSE |
| **Initial conditions** | **with {**the IUT **being** in the "initial state" **and** the IUT **having registered** an AE **and** the IUT **being** a hosting CSE  **and** the IUT **having** a <flexContainer> resource at  TARGET\_RESOURCE\_ADDRESS **containing**children <flexContainerInstance> resources**and** the AE **having** privileges to perform UPDATE operation on TARGET\_RESOURCE\_ADDRESS**}** |
| **Expected behaviour** | **Test events** | **Direction** |
| **when {**the IUT **receives** a valid UPDATE Request from AE **containing** Resource Type **set to** 28 (flexContainer)To **set to** TARGET \_RESOURCE\_ADDRESS **and**From **set to** AE\_ID **and**Content **containing** flexContainer resource **containing**a valid *ATTRIBUTE* attribute**}** | IUT 🡨 AE |
| **then {**the IUT **updates** the set of <flexContainerInstances> resources according to the modified <flexContainer> attributes **and** the IUT **sends** a valid Response **containing** Response Status Code **set to** 2004 (UPDATED)Content **containing**flexContainer resource **containing**currentNrOfInstances and currentByteSize attributes **indicating** modified values**}** | AE 🡨 IUT |

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| --- | --- |
| **TP Id** | **ATTRIBUTE** |
| TP/oneM2M/CSE/FLXC/UPD/007/MNI | maxNrOfInstances |
| TP/oneM2M/CSE/FLXC/UPD/007/MBS | maxByteSize |
| TP/oneM2M/CSE/FLXC/UPD/007/MIA | *maxInstanceAge* |

TP/oneM2M/CSE/FLXC/UPD/008

|  |  |
| --- | --- |
| **TP Id** | TP/oneM2M/CSE/FLXC/UPD/008 |
| **Test objective** | Check that the IUT deletes all child <flexContainerInstance> resources and the currentNrOfInstances, currentByteSize, maxNrOfInstances, maxByteSize and maxInstanceAge attributes of the <flexContainer> when UPDATE request updates *ATTRIBUTE* of the <flexContainer> resource with a value of zero  |
| **Reference** | TS-0001 [1], clause 10.1.4 and 10.2.4.18, TS-0004 [2], clause 7.4.37.2.3 |
| **Config Id** | CF03 |
| **Parent Release** | Release 4 |
| **PICS Selection** | PICS\_CSE |
| **Initial conditions** | **with {** the IUT **being** in the "initial state" **and** the IUT **having registered** an AE **and** the IUT **being** a hosting CSE  **and** the IUT **having** a <flexContainer> resource at  TARGET\_RESOURCE\_ADDRESS **containing**children <flexContainerInstance> resources**and** the AE **having** privileges to perform UPDATE operation onTARGET\_RESOURCE\_ADDRESS**}** |
| **Expected behaviour** | **Test events** | **Direction** |
| **when {**the IUT **receives** a valid UPDATE Request from AE **containing** Resource Type **set to** 28 (flexContainer) To **set to** TARGET \_RESOURCE\_ADDRESS **and**From **set to** AE\_IDContent **containing** <flexContainer> resource **containing** *ATTRIBUTE* attribute **set to** ZERO**}** | IUT 🡨 AE |
| **then {**the IUT **deletes** all <flexContainerInstance> resources **and** the IUT **deletes** currentNrOfInstances, currentByteSize, maxNrOfInstances, maxByteSize and maxInstanceAge attributes of <flexContainer> **and** the IUT **sends** a valid Response **containing**Response Status Code **set to** 2004 (UPDATED) **}** | AE 🡨 IUT |

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| --- | --- |
| **TP Id** | **ATTRIBUTE** |
| TP/oneM2M/CSE/FLXC/UPD/008/MNI | maxNrOfInstances |
| TP/oneM2M/CSE/FLXC/UPD/008/MBS | maxByteSize |
| TP/oneM2M/CSE/FLXC/UPD/008/MIA | *maxInstanceAge* |

7.2.2.13.3 RETRIEVE Operation

TP/oneM2M/CSE/FLXC/RET/001

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| --- | --- |
| **TP Id** | TP/oneM2M/CSE/FLXC/RET/001 |
| **Test objective** | Check that the IUT performs the RETRIEVErequest for the latest <flexContainerInstance> resource |
| **Reference** | TS-0001 [1], clause 10.1.3, 10.2.4.17, TS-0004 [2], clause 7.4.37.2.2 |
| **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** **and** the IUT **having** a <flexContainer> resource at  TARGET\_RESOURCE\_ADDRESS **containing** a child <flexContainerInstance> resource **as** FLEX\_CONTAINER\_INSTANCE\_1 a child <flexContainerInstance> resource **as** FLEX\_CONTAINER\_INSTANCE\_2 **and** creationTime attribute ofFLEX\_CONTAINER\_INSTANCE\_1 is **less than** creationTime attribute of FLEX\_CONTAINER\_INSTANCE\_2 **and** the AE **having** privileges to perform RETRIEVEoperation on TARGET\_RESOURCE\_ADDRESS**}** |
| **Expected behaviour** | **Test events** | **Direction** |
| **when {** the IUT **receives** a valid RETRIEVERequest from AE **containing** Resource Type **set to** 58 (flexContainerInstance) **and** To **set to** TARGET \_RESOURCE\_ADDRESS/la **and**From **set to** AE\_ID**}** | IUT 🡨 AE |
| **then {** the IUT sends a Response **containing** Response Status Code **set to** 2000 (OK) **and** Content **containing** flexContainerInstance resource **containing** resourceName attribute **set to** FLEX\_CONTAINER\_INSTANCE\_2**}** | IUT 🡪 AE |

TP/oneM2M/CSE/FLXC/RET/002

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| --- | --- |
| **TP Id** | TP/oneM2M/CSE/FLXC/RET/002 |
| **Test objective** | Check that the IUT performs the RETRIEVErequest for the oldest <flexContainerInstance> resource |
| **Reference** | TS-0001 [1], clause 10.1.3, 10.2.4.17, TS-0004 [2], clause 7.4.37.2.2 |
| **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** **and** the IUT **having** a <flexContainer> resource at  TARGET\_RESOURCE\_ADDRESS **containing** a child <flexContainerInstance> resource **as** FLEX\_CONTAINER\_INSTANCE\_1 a child <flexContainerInstance> resource **as** FLEX\_CONTAINER\_INSTANCE\_2 **and** creationTime attribute ofFLEX\_CONTAINER\_INSTANCE\_1 is **less than** creationTime attribute of FLEX\_CONTAINER\_INSTANCE\_2 **and** the AE **having** privileges to perform RETRIEVEoperation on TARGET\_RESOURCE\_ADDRESS**}** |
| **Expected behaviour** | **Test events** | **Direction** |
| **when {** the IUT **receives** a valid RETRIEVERequest from AE **containing** Resource Type **set to** 58 (flexContainerInstance) **and** To **set to** TARGET \_RESOURCE\_ADDRESS/ol **and**From **set to** AE\_ID**}** | IUT 🡨 AE |
| **then {** the IUT sends a Response **containing** Response Status Code **set to** 2000 (OK) **and** Content **containing** flexContainerInstance resource **containing** resourceName attribute **set to** FLEX\_CONTAINER\_INSTANCE\_1**}** | IUT 🡪 AE |

7.2.2.13.4 DELETE Operation

TP/oneM2M/CSE/FLXC/DEL/001

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| **TP Id** | TP/oneM2M/CSE/FLXC/DEL/001 |
| **Test objective** | Check that the IUT performs the DELETErequest for the latest <flexContainerInstance> resource |
| **Reference** | TS-0001 [1], clause 10.1.5, 10.2.4.19, TS-0004 [2], clause 7.4.37.2.4 |
| **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 **containing** **and** the IUT **having** a <flexContainer> resource at  TARGET\_RESOURCE\_ADDRESS **containing** a child <flexContainerInstance> resource **as** FLEX\_CONTAINER\_INSTANCE\_1 a child <flexContainerInstance> resource **as** FLEX\_CONTAINER\_INSTANCE\_2 **and** creationTime attribute ofFLEX\_CONTAINER\_INSTANCE\_1 is **less than** creationTime attribute of FLEX\_CONTAINER\_INSTANCE\_2 **and** the AE **having** privileges to perform RETRIEVEoperation on TARGET\_RESOURCE\_ADDRESS**}** |
| **Expected behaviour** | **Test events** | **Direction** |
| **when {**the IUT **receives** a valid DELETE Request from AE **containing** Resource Type **set to** 58 (flexContainerInstance)To **set to** TARGET \_RESOURCE\_ADDRESS/la **and**From **set to** AE\_ID**}** | IUT 🡨 AE |
| **then {**the IUT **deletes** the FLEX\_CONTAINER\_INSTANCE\_2 resource the IUT **updates** the currentNrOfInstances, currentByteSize and contentSize attributes of the <flexContainer> resource **and** the IUT **sends** a valid Response **containing** Response Status Code **set to** 2002 (DELETED)**}** | IUT 🡪 AE |

TP/oneM2M/CSE/FLXC/DEL/002

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| --- | --- |
| **TP Id** | TP/oneM2M/CSE/FLXC/DEL/002 |
| **Test objective** | Check that the IUT performs the DELETErequest for the oldest <flexContainerInstance> resource |
| **Reference** | TS-0001 [1], clause 10.1.5, 10.2.4.19, TS-0004 [2], clause 7.4.37.2.4 |
| **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 **containing** **and** the IUT **having** a <flexContainer> resource at  TARGET\_RESOURCE\_ADDRESS **containing** a child <flexContainerInstance> resource **as** FLEX\_CONTAINER\_INSTANCE\_1 a child <flexContainerInstance> resource **as** FLEX\_CONTAINER\_INSTANCE\_2 **and** creationTime attribute ofFLEX\_CONTAINER\_INSTANCE\_1 is **less than** creationTime attribute of FLEX\_CONTAINER\_INSTANCE\_2 **and** the AE **having** privileges to perform RETRIEVEoperation on TARGET\_RESOURCE\_ADDRESS**}** |
| **Expected behaviour** | **Test events** | **Direction** |
| **when {**the IUT **receives** a valid DELETE Request from AE **containing** Resource Type **set to** 58 (flexContainerInstance)To **set to** TARGET \_RESOURCE\_ADDRESS/ol **and**From **set to** AE\_ID**}** | IUT 🡨 AE |
| **then {**the IUT **deletes** the FLEX\_CONTAINER\_INSTANCE\_1 resource the IUT **updates** the currentNrOfInstances, currentByteSize and contentSize attributes of the <flexContainer> resource **and** the IUT **sends** a valid Response **containing** Response Status Code **set to** 2002 (DELETED)**}** | IUT 🡪 AE |

7.2.2.13.5 BASIC Operation

TP/oneM2M/CSE/FLXC/001

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| **TP Id** | TP/oneM2M/CSE/FLXC/001 |
| **Test objective** | Check that the IUT rejects the *OPERATION* request for the latest <flexContainerInstance> resource if targeted resource does not exist |
| **Reference** | TS-0001 [1], clause 10.2.4.17, 10.2.4.19, TS-0004 [2], clause 7.4.37.2.2, 7.4.37.2.4 |
| **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** a <flexContainer> resource at TARGET\_RESOURCE\_ADDRESS **containing** no child flexContainerInstance resource **and** the AE **having** privileges to perform *OPERATION* on  TARGET\_RESOURCE\_ADDRESS**}** |
| **Expected behaviour** | **Test events** | **Direction** |
| **when {** the IUT **receives** a valid *OPERATION* Request from AE **containing** Resource Type **set to** 58 (flexContainerInstance) To **set to** TARGET \_RESOURCE\_ADDRESS/la **and**From **set to** AE\_ID **}** | IUT 🡨 AE |
| **then {** the IUT **sends** a valid Response **containing**  Response Status Code **set to** 4004 (NOT\_FOUND)**}** | IUT 🡪 AE |

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| --- | --- |
| **TP Id** | **OPERATION** |
| TP/oneM2M/CSE/FLXC/001/RET | Retrieve |
|
| TP/oneM2M/CSE/FLXC/001/DEL | Delete |

TP/oneM2M/CSE/FLXC/002

|  |  |
| --- | --- |
| **TP Id** | TP/oneM2M/CSE/FLXC/002 |
| **Test objective** | Check that the IUT rejects the *OPERATION* request for the oldest <flexContainerInstance> resource if targeted resource does not exist |
| **Reference** | TS-0001 [1], clause 10.2.4.17, 10.2.4.19, TS-0004 [2], clause 7.4.37.2.2, 7.4.37.2.4 |
| **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** a <flexContainer> resource at TARGET\_RESOURCE\_ADDRESS **containing** no child flexContainerInstance resource **and** the AE **having** privileges to perform operation onTARGET\_RESOURCE\_ADDRESS**}** |
| **Expected behaviour** | **Test events** | **Direction** |
| **when {**the IUT **receives** a valid *OPERATION* Request from AE **containing**Resource Type **set to** 58 (flexContainerInstance)To **set to** TARGET \_RESOURCE\_ADDRESS/ol **and**From **set to** AE\_ID**}** | IUT 🡨 AE |
| **then {** the IUT **sends** a valid Response **containing**  Response Status Code **set to** 4004 (NOT\_FOUND)**}** | IUT 🡪 AE |

|  |  |
| --- | --- |
| **TP Id** | **OPERATION** |
| TP/oneM2M/CSE/FLXC/002/RET | Retrieve |
|
| TP/oneM2M/CSE/FLXC/002/DEL | Delete |

### -----------------------End of change 1---------------------------------------------

CHECK LIST

* Does this Change Request include an informative introduction containing the problem(s) being solved, and a summary list of proposals.?
* Does this CR contain changes related to only one particular issue/problem?
* Have any mirror CRs been posted?
* Does this Change Request make **all** the changes necessary to address the issue or problem? E.g. A change impacting 5 tables should not include a proposal to change only 3 tables?Does this Change Request follow the drafting rules?
* Are all pictures editable?
* Have you checked the spelling and grammar?
* Have you used change bars for all modifications?
* Does the change include the current and surrounding clauses to clearly show where a change is located and to provide technical context of the proposed change? (Additions of complete clauses need not show surrounding clauses as long as the proposed clause number clearly shows where the new clause is proposed to be located.)
* Are multiple changes in this CR clearly separated by horizontal lines with embedded text such as, start of change 1, end of change 1, start of new clause, end of new clause.?