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| CHANGE REQUEST | |
| Meeting:\* | TDE #49.2 |
| Source:\* | TF-oneM2M |
| Date:\* | 2021-01-18 |
| Contact:\* | Miguel Angel Reina Ortega, ETSI, [MiguelAngel.ReinaOrtega@etsi.org](mailto:MiguelAngel.ReinaOrtega@etsi.org) |
| Reason for Change/s:\* | New TPs for cross-resource notification release 4 |
| CR against: Release\* | Rel-4 |
| CR against: WI\* | Active <Work Item number>  MNT Maintenace / < Work Item number(optional)>  STE Small Technical Enhancements / < Work Item number (optional)>  Only ONE of the above shall be ticked |
| CR against: TS/TR\* | TS-0018-V-4.2.0 |
| Clauses/Sub Clauses\* |  |
| Type of change: \* | Editorial change  Bug Fix or Correction  Change to existing feature or functionality  New feature or functionality  Only ONE of the above shall be ticked |
| Post Freeze checking:\* | This CR contains only essential changes and corrections? YES  NO  This CR is a mirror CR? YES  NO  if YES, please indicate the document number of the original CR: |
| Template Version:23 February 2015 (Dot 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.

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. Includes any changes to references, definitions, and acronyms in the same deliverable.

Follow the drafting rules.

All pictures must be editable.

Check spelling and grammar to the extent practicable.

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 sections need not show surrounding clauses as long as the proposed section number clearly shows where the new section is proposed to be 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 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 cross-resource notification release 4.

R01 – Including corrections as discussed during the last call.

R02 – Including some small corrections to TPs (test objective enhancement and parent release) and two new TPs

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

7.2.2.4.4 NOTIFY Operation

TP/oneM2M/CSE/SUB/NTF/012

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| **TP Id** | | TP/oneM2M/CSE/SUB/NTF/012 | |
| **Test objective** | | Check that the IUT successfully sends a cross-resource notification to the notificationURI when notifications from resources in regularResourcesAsTarget are received within required TIME\_LIMIT window | |
| **Reference** | | TS-0001 [1], clause 9.6.58, TS-0004 [2], clause 7.5.1.2.18 | |
| **Config Id** | | CF01 | |
| **Parent Release** | | Release 4 | |
| **PICS Selection** | | PICS\_CSE | |
| **Initial conditions** | **with {**  the IUT **being** in the "initial state"  **and** the IUT **having registered** the AE1 **containing**  a container resource on CONTAINER\_RESOURCE\_ADDRESS\_1  a container resource on CONTAINER\_RESOURCE\_ADDRESS\_2  **and** the IUT **having created** a <crossResourceSubsription> resource on CROSS\_RESOURCE\_SUBS\_ADDRESS **containing**  regularResourcesAsTarget attribute **containing**  CONTAINER\_RESOURCE\_ADDRESS\_1 **and**  CONTAINER\_RESOURCE\_ADDRESS\_2 **and**  timeWindowType attribute **set to** *TIME\_WINDOW\_TYPE* **and**  timeWindowSize attribute **set to** DURATION **and**  notificationURI attribute **set to** AE2\_RESOURCE\_ADDRESS  **and** the IUT **having registered** the AE2  **}** | | |
| **Expected behaviour** | **Test events** | | **Direction** |
| **when {**  the IUT **receives** a valid UPDATE Request (Req1) **from** AE1 **contaning**  To **set to** CONTAINER\_RESOURCE\_ADDRESS\_1 **and**  From **set to** AE\_ID **and**  Content **containing**  container resource **containing**  valid labels attribute  **and** the IUT **receives** a valid UPDATE Request (Req2) **from** AE1 **contaning**  To **set to** CONTAINER\_RESOURCE\_ADDRESS\_2 **and**  From **set to** AE\_ID **and**  Content **containing**  container resource **containing**  valid labels attribute  **and** timer has not reached TIME\_LIMIT  **}** | | IUT  AE1  IUT  AE1 |
| **then {**  the IUT **sends** a valid Response toAE1for Req1  **and** the IUT **sends** a valid Response toAE1 for Req2  **and** the IUT **sends** a NOTIFY Request to AE2 generated from crossResourceSubsription on CROSS\_RESOURCE\_SUBS\_ADDRESS **containing**  Content **containing**  notification message **containing**  subscriptionReference attribute **set to** CROSS\_RESOURCE\_SUBS\_ADDRESS  **}** | | IUT  AE1  IUT  AE1  IUT 🡪 AE2 |

| **TP Id** | **TIME\_WINDOW\_TYPE** |
| --- | --- |
| TP/oneM2M/CSE/SUB/NTF/012\_TWT/1 | 1 (PERIODICWINDOW) |
| TP/oneM2M/CSE/SUB/NTF/012\_TWT/2 | 2 (SLIDINGWINDOW) |

TP/oneM2M/CSE/SUB/NTF/013

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| **TP Id** | | TP/oneM2M/CSE/SUB/NTF/013 | |
| **Test objective** | | Check that the IUT does not send a cross-resource notification to the notificationURI when a notification from resource in regularResourcesAsTarget is not received within required TIME\_LIMIT window | |
| **Reference** | | TS-0001 [1], clause 9.6.58, TS-0004 [2], clause 7.5.1.2.18 | |
| **Config Id** | | CF01 | |
| **Parent Release** | | Release 4 | |
| **PICS Selection** | | PICS\_CSE | |
| **Initial conditions** | **with {**  the IUT **being** in the "initial state"  **and** the IUT **having registered** the AE1 **containing**  a container resource on CONTAINER\_RESOURCE\_ADDRESS\_1  a container resource on CONTAINER\_RESOURCE\_ADDRESS\_2  **and** the IUT **having created** a <crossResourceSubsription> resource on CROSS\_RESOURCE\_SUBS\_ADDRESS **containing**  regularResourcesAsTarget attribute **containing**  CONTAINER\_RESOURCE\_ADDRESS\_1 **and**  CONTAINER\_RESOURCE\_ADDRESS\_2 **and**  timeWindowType attribute **set to** *TIME\_WINDOW\_TYPE* **and**  timeWindowSize attribute **set to** DURATION **and**  notificationURI attribute **set to** AE2\_RESOURCE\_ADDRESS  **and** the IUT **having registered** the AE2  **}** | | |
| **Expected behaviour** | **Test events** | | **Direction** |
| **when {**  the IUT **receives** a valid UPDATE Request (Req1) **from** AE1 **contaning**  To **set to** CONTAINER\_RESOURCE\_ADDRESS\_1 **and**  From **set to** AE\_ID **and**  Content **containing**  container resource **containing**  valid labels attribute  **and** the IUT **receives** a valid UPDATE Request (Req2) **from** AE1 **contaning**  To **set to** CONTAINER\_RESOURCE\_ADDRESS\_2 **and**  From **set to** AE\_ID **and**  Content **containing**  container resource **containing**  valid labels attribute  **and** timer has reached TIME\_LIMIT  **}** | | IUT  AE1  IUT  AE1 |
| **then {**  the IUT **sends** a valid Response toAE1for Req1  **and** the IUT **sends** a valid Response toAE1 for Req2  **and** the IUT **does not send** a NOTIFY Request to AE2  **}** | | IUT  AE1  IUT  AE1 |

| **TP Id** | **TIME\_WINDOW\_TYPE** |
| --- | --- |
| TP/oneM2M/CSE/SUB/NTF/013\_TWT/1 | 1 (PERIODICWINDOW) |
| TP/oneM2M/CSE/SUB/NTF/013\_TWT/2 | 2 (SLIDINGWINDOW) |

TP/oneM2M/CSE/SUB/NTF/014

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| **TP Id** | | TP/oneM2M/CSE/SUB/NTF/014 | |
| **Test objective** | | Check that the IUT sends a cross-resource notification to the notificationURI when notifications from resources in regularResourcesAsTarget are received within required TIME\_LIMIT window having different NOTIFICATION\_EVENT\_TYPE values for each of the target resources | |
| **Reference** | | TS-0001 [1], clause 9.6.58, TS-0004 [2], clause 7.5.1.2.18 | |
| **Config Id** | | CF01 | |
| **Parent Release** | | Release 4 | |
| **PICS Selection** | | PICS\_CSE | |
| **Initial conditions** | **with {**  the IUT **being** in the "initial state"  **and** the IUT **having registered** the AE1 **containing**  a container resource on CONTAINER\_RESOURCE\_ADDRESS\_1  a container resource on CONTAINER\_RESOURCE\_ADDRESS\_2  **and** the IUT **having created** a <crossResourceSubsription> resource on CROSS\_RESOURCE\_SUBS\_ADDRESS **containing**  regularResourcesAsTarget attribute **containing**  CONTAINER\_RESOURCE\_ADDRESS\_1 **and**  CONTAINER\_RESOURCE\_ADDRESS\_2 **and**  timeWindowType attribute **set to** *TIME\_WINDOW\_TYPE* **and**  timeWindowSize attribute **set to** DURATION **and**  eventNotificationCriteriaSet **containing**  EVENT\_NOTIFICATION\_CRITERIA\_1 **set to** 1 (Update\_of\_resource) **and**  EVENT\_NOTIFICATION\_CRITERIA\_2 **set to** 3 (Create\_of\_Direct\_Child\_Resource)  **and** notificationURI attribute **set to** AE2\_RESOURCE\_ADDRESS  **and** the IUT **having registered** the AE2  **}** | | |
| **Expected behaviour** | **Test events** | | **Direction** |
| **when {**  the IUT **receives** a valid UPDATE Request (Req1) **from** AE1 **contaning**  To **set to** CONTAINER\_RESOURCE\_ADDRESS\_1 **and**  From **set to** AE\_ID **and**  Content **containing**  container resource **containing**  valid labels attribute  **and** the IUT **receives** a valid CREATE Request (Req2) **from** AE1 **contaning**  To **set to** CONTAINER\_RESOURCE\_ADDRESS\_2 **and**  From **set to** AE\_ID **and**  Content **containing**  a valid container resource representation  **and** timer has not reached TIME\_LIMIT  **}** | | IUT  AE1  IUT  AE1 |
| **then {**  the IUT **sends** a valid Response toAE1for Req1  **and** the IUT **sends** a valid Response toAE1 for Req2  **and** the IUT **sends** a NOTIFY Request to AE2 generated from crossResourceSubscription CROSS\_RESOURCE\_SUBS\_ADDRESS **containing**  Content **containing**  notification message **containing**  subscriptionReference attribute **set to** CROSS\_SUBS\_RESOURCE\_ADDRESS  **}** | | IUT  AE1  IUT  AE1  IUT  AE2 |

| **TP Id** | **TIME\_WINDOW\_TYPE** |
| --- | --- |
| TP/oneM2M/CSE/SUB/NTF/014\_TWT/1 | 1 (PERIODICWINDOW) |
| TP/oneM2M/CSE/SUB/NTF/014\_TWT/2 | 2 (SLIDINGWINDOW) |

TP/oneM2M/CSE/SUB/NTF/015

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| --- | --- | --- | --- |
| **TP Id** | | TP/oneM2M/CSE/SUB/NTF/015 | |
| **Test objective** | | Check that the IUT successfully sends a cross-resource notification to the notificationURI when notifications from resources in subscriptionResourcesAsTarget are received within required TIME\_LIMIT window | |
| **Reference** | | TS-0001 [1], clause 9.6.58, TS-0004 [2], clause 7.5.1.2.18 | |
| **Config Id** | | CF01 | |
| **Parent Release** | | Release 4 | |
| **PICS Selection** | | PICS\_CSE | |
| **Initial conditions** | **with {**  the IUT **being** in the "initial state"  **and** the IUT **having registered** the AE1 **containing**  a container resource on CONTAINER\_RESOURCE\_ADDRESS\_1 containing  a subscription resource on SUBS\_RESOURCE\_ADDRESS\_1  a container resource on CONTAINER\_RESOURCE\_ADDRESS\_2 containing  a subscription resource on SUBS\_RESOURCE\_ADDRESS\_2  **and** the IUT **having created** a <crossResourceSubscription> resource on CROSS\_RESOURCE\_SUBS\_ADDRESS **containing**  subscriptionResourcesAsTarget attribute **containing**  SUBS \_RESOURCE\_ADDRESS\_1 **and**  SUBS \_RESOURCE\_ADDRESS\_2 **and**  timeWindowType attribute **set to** *TIME\_WINDOW\_TYPE* **and**  timeWindowSize attribute **set to** DURATION **and**  notificationURI attribute **set to** AE2\_RESOURCE\_ADDRESS  **and** the IUT **having registered** the AE2  **}** | | |
| **Expected behaviour** | **Test events** | | **Direction** |
| **when {**  the IUT **receives** a valid UPDATE Request (Req1) **from** AE1 **contaning**  To **set to** AE1\_RESOURCE\_ADDRESS\_1 **and**  From **set to** AE\_ID **and**  Content **containing**  AE resource **containing**  valid labels attribute  **and** the IUT **receives** a valid UPDATE Request (Req2) **from** AE1 **contaning**  To **set to** AE1\_RESOURCE\_ADDRESS\_2 **and**  From **set to** AE\_ID **and**  Content **containing**  AE resource **containing**  valid labels attribute  **and** timer has not reached TIME\_LIMIT  **}** | | IUT  AE1  IUT  AE1 |
| **then {**  the IUT **sends** a valid Response toAE1for Req1  **and** the IUT **sends** a valid Response toAE1 for Req2  **and** the IUT **sends** a NOTIFY Request to AE1generated from SUBS\_RESOURCE\_ADDRESS\_1  **and** the IUT **sends** a NOTIFY Request to AE1generated from SUBS\_RESOURCE\_ADDRESS\_2  **and** the IUT **sends** a NOTIFY Request to AE2 generated from crossResourceSubscription CROSS\_RESOURCE\_SUBS\_ADDRESS **containing**  Content **containing**  notification message **containing**  subscriptionReference attribute **set to** CROSS\_SUBS\_RESOURCE\_ADDRESS  **}** | | IUT  AE1  IUT  AE1  IUT  AE1  IUT  AE1  IUT 🡪 AE2 |

| **TP Id** | **TIME\_WINDOW\_TYPE** |
| --- | --- |
| TP/oneM2M/CSE/SUB/NTF/015\_TWT/1 | 1 (PERIODICWINDOW) |
| TP/oneM2M/CSE/SUB/NTF/015\_TWT/2 | 2 (SLIDINGWINDOW) |

TP/oneM2M/CSE/SUB/NTF/016

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| **TP Id** | | TP/oneM2M/CSE/SUB/NTF/016 | |
| **Test objective** | | Check that the IUT does not send a cross-resource notification to the notificationURI when a notification from resource in subscriptionResourcesAsTarget is not received within required TIME\_LIMIT window | |
| **Reference** | | TS-0001 [1], clause 9.6.58, TS-0004 [2], clause 7.5.1.2.18 | |
| **Config Id** | | CF01 | |
| **Parent Release** | | Release 4 | |
| **PICS Selection** | | PICS\_CSE | |
| **Initial conditions** | **with {**  the IUT **being** in the "initial state"  **and** the IUT **having registered** the AE1 **containing**  a container resource on CONTAINER\_RESOURCE\_ADDRESS\_1 containing  a subscription resource on SUBS\_RESOURCE\_ADDRESS\_1  a container resource on CONTAINER\_RESOURCE\_ADDRESS\_2 containing  a subscription resource on SUBS\_RESOURCE\_ADDRESS\_2  **and** the IUT **having created** a <crossResourceSubscription> resource on CROSS\_RESOURCE\_SUBS\_ADDRESS **containing**  subscriptionResourcesAsTarget attribute **containing**  SUBS \_RESOURCE\_ADDRESS\_1 **and**  SUBS \_RESOURCE\_ADDRESS\_2 **and**  timeWindowType attribute **set to** *TIME\_WINDOW\_TYPE* **and**  timeWindowSize attribute **set to** DURATION **and**  notificationURI attribute **set to** AE2\_RESOURCE\_ADDRESS  **and** the IUT **having registered** the AE2  **}** | | |
| **Expected behaviour** | **Test events** | | **Direction** |
| **when {**  the IUT **receives** a valid UPDATE Request (Req1) **from** AE1 **contaning**  To **set to** AE1\_RESOURCE\_ADDRESS\_1 **and**  From **set to** AE\_ID **and**  Content **containing**  AE resource **containing**  valid labels attribute  **and** the IUT **receives** a valid UPDATE Request (Req2) **from** AE1 **contaning**  To **set to** AE1\_RESOURCE\_ADDRESS\_2 **and**  From **set to** AE\_ID **and**  Content **containing**  AE resource **containing**  valid labels attribute  **and** timer has reached TIME\_LIMIT  **}** | | IUT  AE1  IUT  AE1 |
| **then {**  the IUT **sends** a valid Response toAE1for Req1  **and** the IUT **sends** a valid Response toAE1 for Req2  **and** the IUT **sends** a NOTIFY Request to AE1generated from SUBS\_RESOURCE\_ADDRESS\_1  **and** the IUT **sends** a NOTIFY Request to AE1generated from SUBS\_RESOURCE\_ADDRESS\_2  **and** the IUT **does not send** a NOTIFY Request to AE2  **}** | | IUT  AE1  IUT  AE1  IUT  AE1  IUT  AE1 |

| **TP Id** | **TIME\_WINDOW\_TYPE** |
| --- | --- |
| TP/oneM2M/CSE/SUB/NTF/016\_TWT/1 | 1 (PERIODICWINDOW) |
| TP/oneM2M/CSE/SUB/NTF/016\_TWT/2 | 2 (SLIDINGWINDOW) |

TP/oneM2M/CSE/SUB/NTF/017

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| **TP Id** | | TP/oneM2M/CSE/SUB/NTF/017 | |
| **Test objective** | | Check that the IUT successfully sends notification request to the notificationURI when an update request is received for the target subscribed-to resource with notificationEventType set to "Blocking\_Update" | |
| **Reference** | | TS-0004 [1], clause 7.5.1.2.19 | |
| **Config Id** | | CF01 | |
| **Parent Release** | | Release 4 | |
| **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**  eventNotificationCriteria attribute**containing**  notificationEventType **set to** 7 (Blocking\_Update)  **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 **set to** VALUE\_2 **}** | | IUT  AE1 |
| **then {**  the IUT **sends** a NOTIFY Request to AE2 **contaning**  Content **containing**  notification message **containing**  notificationEvent attribute **containing**  representation attribute **containing**  <subscribed-to type> resource **containing**  All attributes  **}** | | IUT 🡪 AE2 |

TP/oneM2M/CSE/SUB/NTF/018

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| **TP Id** | | TP/oneM2M/CSE/SUB/NTF/018 | |
| **Test objective** | | Check that the IUT successfully sends notification request to the notificationURI when an update request is received for the target subscribed-to resource with notificationEventType set to "Blocking\_Update" when the attribute condition tag matches the modified attributes | |
| **Reference** | | TS-0004 [1], clause 7.5.1.2.19 | |
| **Config Id** | | CF01 | |
| **Parent Release** | | Release 4 | |
| **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**  eventNotificationCriteria attribute**containing**  notificationEventType **set to** 7 (Blocking\_Update)  attribute **set to** ATTRIBUTE\_NAME  **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 **set to** VALUE\_2 **}** | | IUT  AE1 |
| **then {**  the IUT **sends** a NOTIFY Request to AE2 **contaning**  Content **containing**  notification message **containing**  notificationEvent attribute **containing**  representation attribute **containing**  <subscribed-to type> resource **containing**  All attributes  **}** | | IUT 🡪 AE2 |

TP/oneM2M/CSE/SUB/NTF/019

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| **TP Id** | | TP/oneM2M/CSE/SUB/NTF/019 | |
| **Test objective** | | Check that the IUT does not send notification request to the notificationURI when an update request is received for the target subscribed-to resource with notificationEventType set to "Blocking\_Update" but the attribute condition tag does not match the modified attributes | |
| **Reference** | | TS-0004 [1], clause 7.5.1.2.19 | |
| **Config Id** | | CF01 | |
| **Parent Release** | | Release 4 | |
| **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\_1 **set to** VALUE\_1 **and**  subscription child resource **containing**  notificationURI attribute **set to** AE2\_RESOURCE\_ADDRESS **and**  eventNotificationCriteria attribute**containing**  notificationEventType **set to** 7 (Blocking\_Update)  attribute **set to** ATTRIBUTE\_NAME\_2  **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\_1 **set to** VALUE\_2 **}** | | IUT  AE1 |
| **then {**  the IUT **does not send** a NOTIFY Request to AE2\_RESOURCE\_ADDRESS  **}** | |  |

TP/oneM2M/CSE/SUB/NTF/020

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| **TP Id** | | TP/oneM2M/CSE/SUB/NTF/020 | |
| **Test objective** | | Check that the IUT blocks update request for the target subscribed-to resource when an previous update request is received with notificationEventType set to "Blocking\_Update" and notification process is still not completed | |
| **Reference** | | TS-0004 [1], clause 7.5.1.2.19 | |
| **Config Id** | | CF01 | |
| **Parent Release** | | Release 4 | |
| **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**  eventNotificationCriteria attribute**containing**  notificationEventType **set to** 7 (Blocking\_Update)  **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\_ADDRESS  **and** the IUT **having sent** a valid NOTIFY Request **to** AE2\_RESOURCE\_ADDRESS  **}** | | |
| **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 **set to** VALUE\_2 **}** | | IUT  AE1 |
| **then {**  the IUT **does not update** SUBSCRIBED\_TO\_RESOURCE\_ADDRESS  **and** the IUT **does not send** a NOTFIY Request **to** AE2\_RESOURCE\_ADDRESS  **}** | |  |

TP/oneM2M/CSE/SUB/NTF/021

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| **TP Id** | | TP/oneM2M/CSE/SUB/NTF/021 | |
| **Test objective** | | Check that the IUT successfully performs update request to the target subscribed-to resource with notificationEventType set to "Blocking\_Update" | |
| **Reference** | | TS-0004 [1], clause 7.5.1.2.19 | |
| **Config Id** | | CF01 | |
| **Parent Release** | | Release 4 | |
| **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**  eventNotificationCriteria attribute**containing**  notificationEventType **set to** 7 (Blocking\_Update)  **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\_ADDRESS  **and** the IUT **having** sent the NOTIFY Request to the AE2\_RESOURCE\_ADDRESS  **}** | | |
| **Expected behaviour** | **Test events** | | **Direction** |
| **when {**  the IUT **receives** a valid NOTIFY Response from AE2 **containing**  ResponseStatusCode set to OK (2000) **}** | | IUT  AE2 |
| **then {**  the IUT **sends** a valid Response **containing**  Response Status Code **set to** 2004 (UPDATED**)**  **}** | | IUT 🡪 AE1 |

TP/oneM2M/CSE/SUB/NTF/022

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| --- | --- | --- | --- |
| **TP Id** | | TP/oneM2M/CSE/SUB/NTF/022 | |
| **Test objective** | | Check that the IUT rejects update request to the target subscribed-to resource when notificationEventType is set to "Blocking\_Update" and the IUT have received the Notify response containing Response Status Codeindicating TARGET\_NOT\_REACHABLE | |
| **Reference** | | TS-0004 [1], clause 7.5.1.2.19 | |
| **Config Id** | | CF01 | |
| **Parent Release** | | Release 4 | |
| **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**  eventNotificationCriteria attribute**containing**  notificationEventType **set to** 7 (Blocking\_Update)  **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\_ADDRESS  **and** the IUT **having** sent a NOTIFY Request **to** AE2\_RESOURCE\_ADDRESS  **}** | | |
| **Expected behaviour** | **Test events** | | **Direction** |
| **when {**  the IUT **receives** a valid NOTIFY Response **from** AE2 **containing**  ResponseStatusCode **set to** TARGET\_NOT\_REACHABLE (5103) **}** | | IUT  AE2 |
| **then {**  the IUT **sends** a valid Response **containing**  Response Status Code **set to** 5107 (REMOTE\_ENTITY\_NOT\_REACHABLE)  **}** | | IUT 🡪 AE1 |

TP/oneM2M/CSE/SUB/NTF/023

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| --- | --- | --- | --- |
| **TP Id** | | TP/oneM2M/CSE/SUB/NTF/023 | |
| **Test objective** | | Check that the IUT rejects update request to the target subscribed-to resource when notificationEventType is set to "Blocking\_Update" and the IUT have received the Notify response containing Response Status Codeindicating OPERATION\_NOT\_ALLOWED | |
| **Reference** | | TS-0004 [1], clause 7.5.1.2.19 | |
| **Config Id** | | CF01 | |
| **Parent Release** | | Release 4 | |
| **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**  eventNotificationCriteria attribute**containing**  notificationEventType **set to** 7 (Blocking\_Update)  **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\_ADDRESS  **and** the IUT **having** **sent** a NOTIFY Request **to** AE2\_RESOURCE\_ADDRESS  **}** | | |
| **Expected behaviour** | **Test events** | | **Direction** |
| **when {**  the IUT **receives** a valid NOTIFY Response **from** AE2 **containing**  ResponseStatusCode **set to** OPERATION\_NOT\_ALLOWED (4005) **}** | | IUT  AE2 |
| **then {**  the IUT **sends** a valid Response **containing**  Response Status Code **set to** 4127 (OPERATION\_DENIED\_BY\_REMOTE\_ENTITY)  **}** | | IUT 🡪 AE1 |

TP/oneM2M/CSE/SUB/NTF/024

|  |  |  |  |
| --- | --- | --- | --- |
| **TP Id** | | TP/oneM2M/CSE/SUB/NTF/024 | |
| **Test objective** | | Check that the IUT rejects the creation of a subscription resource with notificationEventType set to "Blocking\_Update" when the subscribed-to resource has already a subscription resource with this notificationEventType | |
| **Reference** | | TS-0004 [1], clause 7.5.1.2.19 | |
| **Config Id** | | CF01 | |
| **Parent Release** | | Release 4 | |
| **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**  eventNotificationCriteria attribute**containing**  notificationEventType **set to** 7 (Blocking\_Update)  **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**  Content **containing**  asubscription resource **containing**  eventNotificationCriteria attribute**containing**  notificationEventType **set to** 7 (Blocking\_Update)  **}** | | IUT  AE1 |
| **then {**  the IUT **sends** a valid Response **containing**  Response Status Code **set to** 4124 (BLOCKING\_SUBSCRIPTION\_ALREADY\_EXISTS)  **}** | | IUT 🡪 AE1 |

## ---------------------- 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?
* Does this change request make **all** the changes necessary to address the issue or problem? E.g. A change impacting 5 tables should not only include a proposal to change only 3 tables. Includes any changes to references, definitions, and acronyms in the same deliverable?
* 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 sections need not show surrounding clauses as long as the proposed section number clearly shows where the new section 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.?