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| CHANGE REQUEST |
| Meeting ID:\* | TDE 50 |
| Source:\* | TF-oneM2M |
| Date:\* | 2021-04-22 |
| Reason for Change/s:\* | New TPs for discovery geoquery 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) |

**oneM2M Notice**

The document to which this cover statement is attached is submitted to oneM2M. Participation in, or attendance at, any activity of oneM2M, constitutes acceptance of and agreement to be bound by terms of the Working Procedures and the Partnership Agreement, including the Intellectual Property Rights (IPR) Principles Governing oneM2M Work found in Annex 1 of the Partnership Agreement.

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 Discovery geoquery Release 4

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

TP/oneM2M/CSE/DIS/031

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| **TP Id** | TP/oneM2M/CSE/DIS/031 |
| **Test objective** | Check that the IUT returns successfully appropriate list of discovered resources when resources match the filter criteria containing geoQuery condition provided in the request |
| **Reference** | TS-0001 [1], clause 8.1.3 and clause 10.2.6 |
| **Parent Release** | Release 4 |
| **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**containing** a child resource at CONTAINER\_RESOURCE\_ADDRESS **containing** locationattribute **set to** LOCATION **and** **and** the AE **having** privileges to perform DISCOVERY on child resource**}** |
| **Expected behaviour** | **Test events** | **Direction** |
| **when {**the IUT **receives** a valid Discovery-based RETRIEVE Request **from** AE **containing** To **set to** TARGET\_RESOURCE\_ADDRESS**and** From **set to** AE-ID **and** Filter Criteria **containing** geoQuery **set to** LOCATION **and**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 representation**}** | IUT 🡪 AE |

TP/oneM2M/CSE/DIS/032

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| **TP Id** | TP/oneM2M/CSE/DIS/032 |
| **Test objective** | Check that the IUT returns the empty content when no result matching with filter criteria containing geoQuery condition provided in the request |
| **Reference** | TS-0001 [1], clause 8.1.3 and clause 10.2.6 |
| **Parent Release** | Release 4 |
| **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**containing** a child resource at CONTAINER\_RESOURCE\_ADDRESS **containing** locationattribute **set to** LOCATION1 **and** **and** the AE **having** privileges to perform DISCOVERY on child resource**}** |
| **Expected behaviour** | **Test events** | **Direction** |
| **when {**the IUT **receives** a valid Discovery-based RETRIEVE Request **from** AE **containing** To **set to** TARGET\_RESOURCE\_ADDRESS**and** From **set to** AE-ID **and** Filter Criteria **containing** geoQuery **set to** LOCATION2 **and**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 |

TP/oneM2M/CSE/DIS/033

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| **TP Id** | TP/oneM2M/CSE/DIS/033 |
| **Test objective** | Check that the IUT returns the empty address list when resources match the geoQuery filter criteria but they do not include DISCOVERY permission |
| **Reference** | TS-0001 [1], clause 8.1.3 and clause 10.2.6 |
| **Parent Release** | Release 4 |
| **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**containing** a child resource at CONTAINER\_RESOURCE\_ADDRESS **containing** locationattribute **set to** LOCATION **and** **and** the AE **not having** privileges to perform DISCOVERY on child resource**}** |
| **Expected behaviour** | **Test events** | **Direction** |
| **when {**the IUT **receives** a valid Discovery-based RETRIEVE Request **from** AE **containing** To **set to** TARGET\_RESOURCE\_ADDRESS**and** From **set to** AE-ID **and** Filter Criteria **containing** geoQuery **set to** LOCATION **and**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 |

TP/oneM2M/CSE/DIS/034

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| **TP Id** | TP/oneM2M/CSE/DIS/034 |
| **Test objective** | Check that the IUT accepts a Discovery-based *OPERATION* request containing geoQuery filter criteria when AE has privilege to perform the discovery operation but AE has no privilege to perform the *OPERATION* request |
| **Reference** | TS-0001 [1], clause 8.1.3 and clause 10.2.6.4, TS-0004 [2], clause 7.3.3.14 and clause 6.6.3 |
| **Parent Release** | Release 4 |
| **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**containing** a child resourceat CONTAINER\_RESOURCE\_ADDRESS\_1 **containing***location* attribute **set to** LOCATION  a child resourceat CONTAINER\_RESOURCE\_ADDRESS\_2 **containing***location* attribute **set to** LOCATION **and** the AE **having** privileges to perform DISCOVERY on children resources **and** the AE **not having** privileges to perform *OPERATION* on children resources**}** |
| **Expected behaviour** | **Test events** | **Direction** |
| **when {**the IUT **receives** a valid Discovery-based *OPERATION* Request **from** AE **containing** To **set to** TARGET\_RESOURCE\_ADDRESS**and** From **set to** AE-ID **and** Filter Criteria **containing**geoQuery **set to** LOCATIONfilterUsage **set to** 4 (Discovery-based Operation)**}** | IUT 🡨 AE |
| **then {** the IUT **does not perform** *OPERATION***and** the IUT **sends** a valid Response **containing**Response Status Code **set to** 2000 (OK) aggregatedResponse **containing**Response for CONTAINER\_RESOURCE\_ADDRESS\_1 **containing**Response Status Code **set to** 4103 (ACCESS\_DENIED) Response for CONTAINER\_RESOURCE\_ADDRESS\_2 **containing**Response Status Code **set to** 4103 (ACCESS\_DENIED)**}** | IUT 🡪 AE |

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| **TP Id** | **OPERATION** |
| TP/oneM2M/CSE/DIS/034\_CRE | CREATE |
| TP/oneM2M/CSE/DIS/034\_UPD | UPDATE |
| TP/oneM2M/CSE/DIS/034\_DEL | DELETE |

TP/oneM2M/CSE/DIS/035

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| **TP Id** | TP/oneM2M/CSE/DIS/035 |
| **Test objective** | Check that the IUT returns the empty content when resources match the geoQuery filter criteria but they do not include Discovery-based *OPERATION* permission. |
| **Reference** | TS-0001 [1], clause 9.6.2.3 and clause 10.2.6.4, TS-0004 [2], clause 7.3.3.14 |
| **Parent Release** | Release 4 |
| **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**containing** a child resourceat CONTAINER\_RESOURCE\_ADDRESS\_1 **containing***location* attribute **set to** LOCATION  **and** the AE **not having** privileges to perform DISCOVERY on child resource **and** the AE **having** privileges to perform *OPERATION* on child resource} |
| **Expected behaviour** | **Test events** | **Direction** |
| **when {**the IUT **receives** a valid Discovery-based *OPERATION* Request **from** AE **containing** To **set to** TARGET\_RESOURCE\_ADDRESS**and** From **set to** AE-ID **and** Filter Criteria **containing**geoQuery **set to** LOCATIONfilterUsage **set to** 4 (Discovery-based Operation)**}** | IUT 🡨 AE |
| **then {** the IUT **sends** a valid Response **containing** Response Status Code **set to** 2000 (OK) **and** Content **containing**aggregatedResponse **containing** empty list **}** | IUT 🡪 AE |

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| **TP Id** | **OPERATION** |
| TP/oneM2M/CSE/DIS/035\_CRE | CREATE |
| TP/oneM2M/CSE/DIS/035\_UPD | UPDATE |
| TP/oneM2M/CSE/DIS/035\_DEL | DELETE |

TP/oneM2M/CSE/DIS/036

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| **TP Id** | TP/oneM2M/CSE/DIS/036 |
| **Test objective** | Check that the IUT accepts a Discovery-based *OPERATION* request to theresource TARGET\_RESOURCE\_ADDRESS when AE has no privilege to perform the discovery operation |
| **Reference** | TS-0001 [1], clause 9.6.2.3 and clause 10.2.6.4, TS-0004 [2], clause 7.3.3.14 |
| **Parent Release** | Release 4  |
| **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**containing** child resources **and** the AE **not having** privileges to perform DISCOVERY on child resources **and** the AE **not having** privileges to perform *OPERATION* on child resource} |
| **Expected behaviour** | **Test events** | **Direction** |
| **when {**the IUT **receives** a valid Discovery-based *OPERATION* Request **from** AE **containing** To **set to** TARGET\_RESOURCE\_ADDRESS**and** From **set to** AE-ID **and** Filter Criteria **containing**geoQuery **set to** LOCATIONfilterUsage **set to** 4 (Discovery-based Operation)**}** | IUT 🡨 AE |
| **then {** the IUT **sends** a valid Response **containing** Response Status Code **set to** 2000 (OK) **and** Content **containing**aggregatedResponse **containing** empty list **}** | IUT 🡪 AE |

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| **TP Id** | **OPERATION** |
| TP/oneM2M/CSE/DIS/035\_CRE | CREATE |
| TP/oneM2M/CSE/DIS/035\_UPD | UPDATE |
| TP/oneM2M/CSE/DIS/035\_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.?