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| CHANGE REQUEST | |
| Meeting ID:\* | SDS 61 |
| Source:\* | Sherzod Elamanov (SyncTechno), Taehyun Kim (SyncTechno) |
| Date:\* | 2023-08-14 |
| Reason for Change/s:\* | Clarify that there is no response topic for MQTT URI targets in *notificationURI* of <subscription> resource |
| CR against: Release\* | Release 5 |
| CR against: WI\* | Active WI-113  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-0010 V4.0.0 |
| Clauses \* | 6.6 |
| 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 |
| 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  NO  This CR may break backwards compatibility with the last approved version of the TS? YES  NO |
| Template Version: January 2020 (do not modify) | |

**oneM2M Notice**

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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

Related to CRs SDS-2023-0134r02 and issue #35

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

## 6.6 URI format

oneM2M defines an MQTT URI format to be used in the *pointOfAccess* attributes in several entity resource types (e.g. <CSEBase>, <remoteCSE>, <AE>) and also in the ***Response Type*** parameter and in the *notificationURI* attributes of the <subscription> resource type.

A *pointOfAccess* attribute contains a list of one or more strings, each of which indicates a way in which that entity can be addressed. An entity can indicate support for MQTT by including strings in either or both of the following forms:

* mqtt://<authority>
* mqtts://<authority>
* mqtt://<authority>/<path>
* mqtts://<authority>/<path>

The <authority> component is defined in clause 3.2 of IETF RFC 3986 [8] and includes the host and optionally the port of the MQTT Server that is to be used to access the entity in question.

The form with scheme mqtts: shall be used to show that the server requires the use of TLS when this particular point of access is being used.

If the <authority> does not contain a port component, then the IANA-registered MQTT ports shall be assumed. These are 1883 in the case of mqtt: and 8883 in the case of mqtts:.

The <path>, if present, contains one or more MQTT topic levels (separated by a / if there are multiple levels). If there is a path component in a *pointOfAccess* string, the path is prepended to the topic strings defined in the present document, so for example an AE with AE-ID of "CAE01" and a pointOfAccess containing a path abc/def would subscribe to the MQTT topic

* abc/def/oneM2M/oneM2M/req/+/CAE01/#

rather than to

* /oneM2M/req/+/CAE01/#

There shall always be a path if an MQTT URI is used in a *notificationURI* attribute. That path gives the entire MQTT topic string that the notification is to be published to (with no leading /). The structure of that topic string does not have to conform to any of the topic string patterns defined in the present document.

### NOTE: There is no response topic for the above case as the Hosting CSE does not expect responses when the target has a MQTT URI format.----------------------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.?