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| CHANGE REQUEST | |
| Meeting ID:\* | PRO 33 |
| Source:\* | Bob Flynn, Convida Wireless; [Flynn.bob@convidawireless.com](mailto:Flynn.bob@convidawireless.com) |
| Date:\* | 2018-01-18 |
| Reason for Change/s:\* | See Introduction |
| CR against: Release\* | Release 2 |
| CR against: WI\* | Active <>  MNT maintenance / < Work Item number(optional)>  Is this a mirror CR? Yes  No  mirror CR number: (PRO-2018-0043)  STE Small Technical Enhancements / < Work Item number (optional)>  Only ONE of the above shall be ticked |
| CR against: TS/TR\* | TS-0004 Version 2.15.0 |
| Clauses \* | 6.2.3 |
| 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 |
| Impacted other TS/TR(s) | <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 2017 (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.

In case of a correction, and the change apply to previous releases, a separate “mirror CR” should be posted at the same time of 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. 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 clauses need not show surrounding clauses as long as the proposed clause number clearly shows where the new clause 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

During ARC/PRO discussions the From field is not always in the absolute form.

When the oneM2M entity is communicating to another oneM2M entity , the address appearing in the oneM2M primitive (e.g. From or To parameter) shall be the absolute form of AE-ID or CSE-ID defined in oneM2M TS-0001 [6].

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

### oneM2M Entity Addressing

The oneM2M entities (e.g. AE or CSE) are identified and addressable using M2M Identifiers. Since an M2M Identifier is protocol independent, an IN-CSE shall accommodate address resolution functionality to get actual PoA addresses for communicating with other M2M entities using a specific protocol binding.

The present document assumes each oneM2M entity has the CSE-PoA address of its Registrar CSE in advance.

The CSE-ID shall be assigned by M2M Service Provider. The syntax of CSE-ID is defined by following ABNF notation [20].

CSE-ID = absolute-CSE-ID / SP-relative-CSE-ID

absolute-CSE-ID = M2M-SP-ID SP-relative-CSE-ID

M2M-SP-ID = "//" FQDN

SP-relative-CSE-ID = "/" 1\*unreserved

unreserved = (ALPHA / DIGIT) \*(ALPHA / DIGIT / "-" / "." / "\_")

FQDN = LABEL / (FQDN "." LABEL)

LABEL = LC-ALPHA [ \*(LC\_ALPHANUM / "-" ) LC-ALPHANUM ]

LC-ALPHANUM = %x61-7A / DIGIT

LC-ALPHA = %x61-7A

EXAMPLE 1 Starts:

EXAMPLE: //myoperator.com/cse1

This is an example of an absolute-CSE-ID, "//myoperator.com" is the M2M-SP-ID and "/cse1" is the SP-relative CSE-ID.

EXAMPLE 1 Ends:

The AE-ID is either assigned by the M2M Service Provider (S-type AE-ID Stem), or by the AE's Registrar CSE (C-Type Stem).

The syntax of AE-ID in ABNF notation [20] is as follows:

AE-ID = absolute-AE-ID / SP-relative-AE-ID / S-AE-ID-Stem

absolute-AE-ID = M2M-SP-ID SP-relative-AE-ID

SP-relative-AE-ID = (SP-relative-CSE-ID "/" C-AE-ID-Stem ) / ("/" S-AE-ID-Stem )

S-AE-ID-Stem = "S" SP-assigned-AE-ID-Stem

C-AE-ID-Stem = "C" CSE-assigned-AE-ID-Stem

SP-assigned-AE-ID-Stem = 1\*unreserved

CSE-assigned-AE-ID-Stem = 1\*unreserved

EXAMPLE 2 Starts:

EXAMPLE: //myoperator.com/S563423

This is an example of an absolute-AE-ID that was assigned by the M2M-SP (//myoperator.com).

EXAMPLE: //myoperator.com/cse2/C3532ea3

This is an example of an absolute AE-ID, which registered on the Registrar CSE //myoperator.com/cse2. 'C3532ea3' is the AE-ID-Stem which is assigned by //myoperator.com/cse2.

EXAMPLE: /cse2/C3532ea3

This is the SP-relative version of the absolute AE-ID that is shown above.

EXAMPLE 2 Ends:

All M2M Identifiers are case-sensitive, so for example you could have two distinct CSE’s one called //myoperator.com/cse1 and the other one called //myoperator.com/Cse1.

Note that the M2M-SP-ID portion of an identifier contains the FQDN of the service provider. In general Domain Names are case-insensitive, but the FQDN component of an M2M Identifier shall always use lowercase characters as required by the ABNF and as shown in the examples given above.

### -----------------------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.?