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| CHANGE REQUEST | |
| Meeting ID:\* | TP-42 |
| Source:\* | Poornima Shandilya, C-DoT, [poornima@cdot.in](mailto:poornima@cdot.in)  Anupama Chopra, [anupama@cdot.in](mailto:anupama@cdot.in)  Preeti Rani, [preetir@cdot.in](mailto:preetir@cdot.in)  Sachin Jain, C-DOT, [sachin@cdot.in](mailto:sachin@cdot.in) |
| Date:\* | 2019-09-19 |
| Reason for Change/s:\* | Refer to Introduction section. |
| CR against: Release\* | Release 4 |
| CR against: WI\* | Active <Work Item number>  MNT maintenance / WI-0083  Is this a mirror CR? Yes  No  mirror CR number: (Note to Rapporteur - use latest agreed revision)  STE Small Technical Enhancements  Only ONE of the above shall be ticked |
| CR against: TS/TR\* | TR-0054 Version 0.6.0 |
| Clauses \* | New section 7.4 |
| 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) | N.A. |
| 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) | |

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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.

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

A Globally unique M2M-Sub-ID is defined and introduced as a new attribute in <m2mServiceSubscriptionProfile>. It lacks the linking in the resources in which it is useful.

The CR proposes to provide linking of this new identifier in other resources and it can further be added to more resources as required.

Whenever an authentication profile for its nodes is shared from a subscriber, it shall be associated with its service subscription. But when corresponding resource is created in platform, SSP ID information is lost as there is no attribute to keep that information.

Also, SSN are linked with an SSP as they are direct child. While <node> resource which maintains [registration], [authenticationProfile] etc. is not linked with SSP. nodeID attribute is common in <serviceSubscribedNode> and <node> resources. But it is possible that one node corresponds to multiple service subscription. So, to uniquely identify an originator authentication profile with its SSP, it is required to have SSPID/M2M-Subscription-ID with it.

The CR proposes to add linking of M2M-Sub-ID in [authenticationProfile].

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



## M2M Service Subscription Identifier Linking

### Solution Applicability

The globally unique identifier M2M-Sub-ID may be linked in the resources, if required, to uniquely identify the m2m service subscription under which the resources are created e.g. an [authenticationProfile] resource should be mapped to its service subscription for management of such resources as [authenticationProfile] is created as child of <node> resource and a <node> resource may have multiple [authenticationProfile] corresponding to different service subscriptions. Also, if security association is established, it helps in identifying service subscription corresponding to a request which can further be used for charging purposes.

### Solution Description

[authenticationProfile] resource is created to manage keys/certificates/MAF profile corresponding to a node/entity under <node> resource. These credentials can be provisioned to a node using remote security provisioning framework. A subscriber may want to keep limited life of its security credentials and may want to update the same after a given time. Hence, it should be possible for a subscriber to manage the same.

The linking of M2M Service Subscription Identifier (M2M-Sub-ID) in [authenticationProfile] enables a service subscriber to identify and manage [authenticationProfile] corresponding to its service subscription.

The M2M-Sub-ID can be added as an attribute to the [*authenticationProfile*] resource. This provides the capability to uniquely identify an [authenticationProfile] corresponding to its M2M Service Subscription.

Table 7.4.2-1: New [authenticationProfile] resource attributes

| Attributes of [authenticationProfile] | Multiplicity | RW/  RO/  WO | Description |
| --- | --- | --- | --- |
| M2M-Sub-ID | 0..1 | WO | Provides ID of the Service Subscription profile to which this authentication profile is linked. |

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

No mixed AND/OR filter operation will be supported.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.?