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| CHANGE REQUEST | |
| Meeting:\* | ARC#24.2 |
| Source:\* | C-DOT |
| Date:\* | 2016-09-14 |
| Contact:\* | Poornima ([poornima@cdot.in](mailto:poornima@cdot.in)), Sachin([sachin@cdot.in](mailto:sachin@cdot.in)) |
| Reason for Change/s:\* | See the introduction |
| CR against: Release\* | Release 2 |
| 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-0001 v2.10.0 |
| Clauses/Sub Clauses\* | 10.1.1.2.1,10.2.2.1 |
| 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 may break backwards compatibility with the last approved version of the TS? YES  NO  This CR is a mirror CR? YES  if YES, please indicate the document number of the original CR: : NO  <ARC-2016-0397> |
| Template Version:27 May 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.

In case of a correction, and the change apply to previous releases, a separated “mirror CR” should be posted at the same time of this CR

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

The CR propose two changes for <remoteCSE> CREATE:

In TS-0001, **section 10.1.1.2.1 step 005:**

**Step 005:** The Originator may issue a RETRIEVE Request towards the Receiver (same ***To*** as for the CREATE request message) to obtain the optional parameters of the <remoteCSE> resource created at the Receiver as for step 004 (e.g. *labels*, *accessControlPolicyIDs* attributes). The RETRIEVE procedure is described in clause 10.1.2.

Yellow text points to address of Registrar <CSEBase> while red text points to the address of created <remoteCSE> resource at Registrar CSE. So two lines are in conflict, the CR proposes to modify the text in red to correct the understanding

Second change, **in section 10.2.2.1:**

|  |  |
| --- | --- |
| Processing at Originator after receiving Response | According to clause 10.1.1.2.1. the Originator starts a Retrieve operation and uses the result to create a *remoteCSE* representation of the Receiver |

This step mentions that the Originator first send retrieve request then create remoteCSE resource, but as per section 10.1.1.2.1, it first creates <remoteCSE> locally then sends Retrieve request.

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

##### 10.1.1.2.1 CSE Registration procedure

The procedure for CSE Registration follows the procedure described in clause 10.1.1.1, but with some deviations. Below is the detailed description on how to perform the CSE Registration and which part of the procedure deviates from the one described in clause 10.1.1.1.

The Registration procedure requires the creation of two resources (a <remoteCSE> on the Receiver CSE and a <remoteCSE> on the Originator CSE) rather than one resource. The Registration procedure is always initiated by a CSE in the field domain except in the inter-domain case described in clause 6.5.

**Originator:** The Originator shall be the registering CSE.

**Receiver:** The Receiver shall create the <remoteCSE> resource.



Figure 10.1.1.2.1-1: Procedure for CREATEing a <remoteCSE> Resource

All the parameters of the request and steps that are not indicated do not deviate from clause 10.1.1.1.

**Step 001:** The Originator shall send mandatory parameters and may send optional parameters in Request message for CREATE operation as specified in clause 8.1.2.

**Step 002:** The Receiver shall:

1. The registrar CSE shall allow unknown remote CSE to attempt to ‘CREATE’ when it was authenticated by credential provided by the entity. See TS-0003[2] further detail about authentication for the CSE.
2. Perform sub-steps: 2)-8), from step 002 from clause 10.1.1.1 are applicable.

NOTE: Optionally, if the M2M Service Provider supports inter-domain communication, the Receiver could perform this step if the attribute *CSEBase* (part of the ***Content*** parameter of the request) contains the public domain of the CSE. The Receiver could construct the domain as described in clause 6.4 and 6.5. The Receiver could add an AAA or AAAA record in DNS with the public domain name of the Originator CSE and the IP address of the IN-CSE associated with the Originator.

**Step 003:** See clause 10.1.1.1.

**Step 004:** The Originator, upon receipt of the successful CREATE response message, shall create a <remoteCSE> resource locally under its <CSEBase> resource. This resource is representing the Receiver CSE. The Originator shall provide the appropriate values to all mandatory parameters as described in clause 9.6.4.

**Step 005:** The Originator may issue a RETRIEVE Request towards the Receiver (same ***To*** as for the CREATE request message) to obtain the optional attributes of the <remoteCSE> resource created at the Originator in step 004 (e.g. *labels*, *accessControlPolicyIDs* attributes). The RETRIEVE procedure is described in clause 10.1.2.

See clauses 8.1.2 for the information to be included in the Request message.

**Step 006:** The Receiver verifies that the Originator has the appropriate privileges to access the information.

**Step 007:** The Receiver sends a RETRIEVE response message, according to the procedure described in clause 10.1.2.

See clauses 8.1.3 and 8.1.4 for the information to be included in the Response message.

**Step 008:** The Originator shall update the created <remoteCSE> resource for the Receiver with the information obtained in step 007.

**General Exceptions:**

All exceptions from clause 10.1.1.1 are applicable; in addition the following exception may occur:

1. The Originator does not have the privileges to retrieve the attributes of the Receiver CSE. The Receiver responds with an error.

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

### -----------------------Start of change 2---------------------------------------------

### 10.2.2 *<remoteCSE>* Resource Procedures

#### 10.2.2.1 Create *<remoteCSE>*

This procedure shall be used for creating a *<remoteCSE>* resource. It is part of the registration procedure for remote CSEs on the Registrar CSE (which is also the Hosting CSE), as described in clause 10.1.1.2.1.

Table 10.2.2.1-1: *<remoteCSE>* CREATE

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| *<remoteCSE>* CREATE | |
| Associated Reference Point | Mcc and Mcc' |
| Information in Request message | All parameters defined in table 8.1.2-3 apply with the specific details for:  ***From:*** Originator CSE-ID  **Content**: The resource content shall provide the information as defined in clause 9.6.4 |
| Processing at Originator before sending Request | According to clause 10.1.1.2.1 |
| Processing at Receiver | According to clause 10.1.1.2.1  If the IN-CSE is the receiver and if the M2M SP policies do allow access to the CSEs across multiple domains, then the IN shall create the appropriate entry in the M2M SP's DNS for successfully registered CSE |
| Information in Response message | All parameters defined in table 8.1.3-1 apply with the specific details for:  ***Content***: Address of the created *<remoteCSE>* resource, according to clause 10.1.1.2.1 |
| Processing at Originator after receiving Response | According to clause 10.1.1.2.1. the Originator upon receipt of successful CREATE response message, shall create <remoteCSE> resource locally and thereafter, it may issue a Retrieve request to its registrar <CSEBase> to update the optional attributes of locally created <remoteCSE> resource. |
| Exceptions | According to clause 10.1.1.2.1 |

### -----------------------End of change 2---------------------------------------------

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 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.?