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| CHANGE REQUEST | |
| Meeting ID:\* | ARC 31 |
| Source:\* | Poornima, C-DOT, [poornima@cdot.in](mailto:poornima@cdot.in)  Prateek, C-DOT, [prateekv@cdot.in](mailto:prateekv@cdot.in)  Suman, C-DOT, [ssheoran@cdot.in](mailto:ssheoran@cdot.in) |
| Date:\* | 2017-09-16 |
| Reason for Change/s:\* | See the introduction |
| CR against: Release\* | Release 2 |
| CR against: WI\* | Active <Work Item number>  MNT maintenance / < Work Item number(optional)>  Is this a mirror CR? Yes  No  mirror CR number: (ARC-2017-0394)  STE Small Technical Enhancements / < Work Item number (optional)>  Only ONE of the above shall be ticked |
| CR against: TS/TR\* | TS-0001 Version 2.15.0 |
| Clauses \* | 6.2.9 |
| 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) | |

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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

The CR added a clarification on AE/CSE registration. During interop 4, it was found that there was confusion that registration request can be forwarded, which should not be the case. To clarify that the CR adds word “immediate” to bring more clarity.

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

### 6.2.9 Registration

#### 6.2.9.1 General Concepts

The Registration (REG) CSF processes a request from an AE or another CSE to register with a Registrar CSE in order to allow the registered entities to use the services offered by the Registrar CSE.

#### 6.2.9.2 Detailed Descriptions

Registration is the process of delivering AE or CSE information to another CSE in order to use M2M Services.

An AE on an ASN, an MN or an IN performs registration locally with the corresponding CSE in order to use M2M services offered by that CSE. An AE on an ADN performs registration with the CSE on an MN or an IN in order to use M2M services offered by that CSE. An IN-AE performs registration with the corresponding CSE on an IN in order to use M2M services offered by that IN CSE. An AE can have interactions with its Registrar CSE (when it is the target CSE) without the need to have the Registrar CSE register with other CSE.

The CSE on an ASN performs registration with the CSE in the MN in order to be able to use M2M Services offered by the CSE in the MN. As a result of successful ASN-CSE registration with the MN-CSE, the CSEs on the ASN and the MN establish a relationship allowing them to exchange information.

The CSE on an MN performs registration with the CSE of another MN in order to be able to use M2M Services offered by the CSE in the other MN. As a result of successful MN-CSE registration with the other MN-CSE, the CSEs on the MNs establish a relationship allowing them to exchange information.

The CSE on an ASN or on an MN perform registration with the CSE in the IN in order to be able to use M2M Services offered by the CSE in the IN. As a result of successful ASN/MN registration with the IN-CSE, the CSEs on ASN/MN and IN establish a relationship allowing them to exchange information.

Following a successful registration of an AE to a CSE, the AE is able to access, assuming access privilege is granted, the resources in all the CSEs that are potential targets of request from the Registrar CSE.

The capabilities supported by the REG CSF are as follows:

* ability for AE to register to its Registrar CSE where the hop count is zero, as per table 6.4-1;
* ability for CSE to register to its Registrar CSE where the hop count is zero, as per table 6.4-1;
* ability for an ASN-CSE/MN-CSE or ADN-AE to register association of its M2M-Ext-ID (if available) with its CSE‑ID or AE-ID (see clause 7.1.8);
* ability for an ASN-CSE/MN-CSE or ADN-AE to register association of its Trigger-Recipient-ID (if available) with its CSE-ID or AE-ID (see clause 7.1.10). When Trigger-Recipient-ID is not present, it is assumed that the ADN-AE or CSE is not able to receive triggers.

NOTE: Such registrations are applicable to a single M2M Service Provider Domain.

Registration information for a Node includes:

* Identifier of the Node.
* Reachability schedules; which are elements of a Node's policy, and specify when messaging can occur between Nodes. Reachability schedules can be used in conjunction with other policy elements. When reachability schedules are not present in a Node then that Node is expected to be always reachable.
* Managing connection state of communication channel to the registered AE or CSE.

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