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| CHANGE REQUEST | |
| Meeting:\* | ARC 16.0 |
| Source:\* | ALU (TIA) |
| Date:\* | 2015-03-25 |
| Contact:\* | Tim Carey, Alcatel-Lucent, timothy.carey@alcatel-lucent.com |
| Reason for Change/s:\* | Fix missed P2413 comments |
| CR against: Release\* | 1.0 |
| 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 v1.6.1 |
| Clauses/Sub Clauses\* | Section 5.2.2.5 Editorial cleanup of Device Management Interfaces  Section 6.2.4.1.1 Editorial Device Management Architecture |
| 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 is a mirror CR? YES  NO  if YES, please indicate the document number of the original CR:  <Document Number)<CR Number of the original CR to the current Release> |
| Template Version:23 February 2015 (Dot not modify) | |

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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

Missed corrections for P2413 from ARC-2015-1706 agreed in TP15.

* Section 5.2.2.5: Ia reference point is the la (L) reference point. Also these are not reference points but interfaces.

Missed corrections for P2413 from ARC-2015-1705 agreed in TP15.

* Section 6.2.4.1.1: Ia reference point is the la (L) reference point. Diagram wasn’t updated with the corrected Mcc endpoint to the CSF

This contribution resolves this correcting the text in each of the sections.

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

#### 5.2.2.5 Other Reference Points and Interfaces

* See clause 12.2.1 for Mch reference point
* See clause 6.2.4 for Mc, Mp, Ms and La device management interfaces

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

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

##### 6.2.4.1.1 Device Management Architecture

In order to manage the CSE and device capabilities of the MNs, ASNs and ADNs, the DMG can utilize existing device management technologies (e.g. TR‑069 [i.4], OMA-DM [i.5], and LWM2M [i.6]) in addition to management of Management Resources across the Mcc reference point. When the device management technology is used to manage the MN, ASN or ADN, the DMG of the IN translates or adapts the management related requests from other CSEs or from AEs to the device management commands of the corresponding device management technology.

In order to perform the translation and adaptation functions, the DMG has a functional component termed the Management Adapter (figure 6.2.4.1.1-1). The Management Adapter in the DMG of the IN (IN-DMG-MA) performs the adaptation between the DMG and Management Servers using the **ms** interface; while the Management Adapter in the DMG of the MN (MN-DMG-MA) and ASN (ASN-DMG-MA) performs translation and adaptation between the DMG and the Management Client using the **la** interface. Only one Management Adapter is shown in the DMG although it can interact with Management Server using different management technologies.

The interface between Management Server and Management Client (figure 6.2.4.1.1-1) is the **mc** interface which is subject to the device management technology that is used (e.g. TR-069 [i.4] or LWM2M [i.6]). The **mc** interface is technology dependent and is outside the scope of the present document.

The DMG in the CSE of the MN has the same functionality as the DMG in the CSE of the ASN. In addition, the DMG in the MN can be used to manage devices in the M2M Area Network. In this case, the DMG is deployed with proxy functionality that interacts with the Proxy Management Client using the **mp** interface. The **mp** interface is technology dependent and is outside the scope of the present document.

The Management Server and Management Client can be implemented as an entity external to the Node or they can be implemented as an entity embedded within the Node (figure 6.2.4.1.1-1). The Management Server and the Management Client are located on the boundary of the Node to indicate this situation as well as to depict that an IN can utilize multiple Management Servers from various M2M and Network Service Providers.



Figure 6.2.4.1.1-1: Device Management Architecture

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