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| CHANGE REQUEST |
| Meeting ID:\* | PRO 30.1 |
| Source:\* | Poornima, C-DOT, poornima@cdot.inJagan, C-DOT, jagan@cdot.in  |
| Date:\* | 2017-07-27 |
| Reason for Change/s:\* | See the introduction  |
| CR against: Release\* | Release 2 |
| CR against: WI\* | [ ]  Active <Work Item number> [x]  MNT maintenance / < Work Item number(optional)>Is this a mirror CR? Yes [x]  No [ ] mirror CR number: <PRO-2017-0175>(Note to Rapporteur - use latest agreed revision)[ ]  STE Small Technical Enhancements / < Work Item number (optional)>Only ONE of the above shall be ticked |
| CR against: TS/TR\* | TS-0004 Version 2.12.0 |
| Clauses \* | 7.4.16.1 |
| Type of change: \* | [ ]  Editorial change[x]  Bug Fix or Correction[ ]  Change to existing feature or functionality[ ]  New feature or functionalityOnly 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 [x]  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 proposes following changes in <mgmtCmd> resource request optionality

**Change 1:**

*cmdType* attribute of <mgmtCmd> resource identifies management operation. Once one type of *cmdType* is created, it should not allow to modify it as other attributes are also dependent upon its value.

Also As per TS-0001, it is a WO attribute as highlighted below:

**TS-0001**

|  |  |  |  |
| --- | --- | --- | --- |
| *cmdType* | 1 | WO | The type to identify the management operation (e.g. download). |

And in TS-0004, in UPDATE procedure it is mentioned that if Originator attempts to update this attribute then “BAD\_REQUEST” error should be thrown

**TS-0004:**

|  |
| --- |
| If the Originator attempts to update attributes ***resourceType***, ***resourceID*** or ***cmdType***, the Receiver shall generate a ***Response Status Code*** indicating "BAD\_REQUEST" error. |

CR Proposes to change its type to NP in “UPDATE request”

**Change 2:**

execMode should not be a mandatory attribute in request as it may have a default value and as per TS-0001 and XSD, it is not mandatory as highlighted below:

TS-0001

|  |  |  |  |
| --- | --- | --- | --- |
| *execMode* | 0..1 | RW | The mode used to specify how the command will be executed (e.g. Immediate Once, Immediate and Repeatedly, Random Once, Random and Repeatedly). May be used together with *execFrequency*, *execDelay* and *execNumber* to provide the scheduling information. |

XSD:

<xs:element name="execMode" type="m2m:execModeType" minOccurs="0"/>

### CR proposes to change its type to “O” in “CREATE” request.

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

### Resource Type <mgmtCmd>

#### Introduction

The *<*mgmtCmd*>* resource represents a method to execute management procedures or to model commands and remote procedure calls (RPC) required by existing management protocols and enables AEs to request management procedures to be executed on a remote entity. The detailed description can be found in clause 9.6.16 in oneM2M TS-0001 Architecture TS [6].

Table 7.4.16.1‑1: Data type definition of <mgmtCmd> resource

|  |  |  |
| --- | --- | --- |
| Data Type ID | File Name | Note |
| mgmtCmd | CDT-mgmtCmd-v2\_12\_0.xsd |  |

Table 7.4.16.1‑2: Universal/Common Attributes of <mgmtCmd> resource

|  |  |
| --- | --- |
| Attribute Name | Request Optionality  |
| Create | Update |
| *@resourceName* | O | NP |
| *resourceType*  | NP | NP |
| *resourceID* | NP | NP |
| *parentID* | NP | NP |
| *accessControlPolicyIDs* | O | O |
| *creationTime* | NP | NP |
| *expirationTime* | O | O |
| *lastModifiedTime* | NP | NP |
| *labels* | O | O |
| *dynamicAuthorizationConsultationIDs* | O | O |

Table 7.4.16.1‑3: Resource Specific Attributes of <mgmtCmd> resource

|  |  |  |  |
| --- | --- | --- | --- |
| Attribute Name | Request Optionality  | Data Type | Default Value and Constraints |
| Create | Update |
| *description* | O | O | xs:string | size: 256No default |
| *cmdType* | M | NP | m2m:cmdType | RESET, REBOOT, UPLOAD,DOWNLOAD,SOFTWAREINSTALL,SOFTWAREUPDATE,SOFTWAREUNINSTALLNo default |
| *execReqArgs* | O | O | m2m:execReqArgsListType | A list of entries which are dependent on cmdType:If cmdType=RESET, execReqArgsList=resetArgsType.If cmdType=REBOOT, execReqArgsList=rebootArgsType. If cmdType=UPLOAD, execReqArgsList=uploadArgsType. If cmdType=DOWNLOAD, execReqArgsList=downloadArgsType. If cmdType=SOFTWAREINSTALL, execReqArgsList=softwareInstallArgsType. If cmdType=SOFTWAREUPDATE, execReqArgsList=softwareUpdateArgsType. If cmdType= SOFTWAREUNINSTALL, execReqArgsList=softwareUninstallArgsType. No default |
| *execEnable* | O | O | xs:boolean | No default |
| *execTarget* | M | O | m2m:nodeID | No default |
| *execMode* | O | O | m2m:execModeType | IMMEDIATEONCE,IMMEDIATEREPEAT,RANDOMONCE,RANDOMREPEATDefault=IMMEDIATEONCE |
| *execFrequency* | O | O | xs:duration | No default |
| *execDelay* | O | O | xs:duration | Default=0 |
| *execNumber* | O | O | xs:nonNegativeInteger | Default=1 |

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