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| CHANGE REQUEST | |
| Meeting:\* | ARC#26.1 |
| Source:\* | C-DOT |
| Date:\* | 2016-01-03 |
| Contact:\* | Poornima ([poornima@cdot.in](mailto:poornima@cdot.in)), Deepak ([deepakkr@cdot.in](mailto:deepakkr@cdot.in)) ,Anupama([anupama@cdot.in](mailto:anupama@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\_11\_1 |
| Clauses/Sub Clauses\* | 9.6.16 |
| 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 |
| 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 proposes changes in <mgmtCmd> resource’ attributes *execEnable* and *execMode*:

*execEnable*: Currently it is a mandatory, non-modifiable attribute but as per description in **TS-0001**, it can be blank and can be updated for triggering execution as highlighted below:

|  |  |  |  |
| --- | --- | --- | --- |
| *execEnable* | 1 | RO | The attribute can be blank without any value or it can contain an address that can be used to trigger execution of <mgmtCmd> using UPDATE method. |

So it should be RW not RO, and it’s multiplicity should be 0..1 as it can be blank.

And As per **TS-0004**, this is of type Boolean as highlighted below:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| *execEnable* | O | O | xs:boolean | No default |

But as per TS-0001, it can contain an address as highlighted below:

|  |  |  |  |
| --- | --- | --- | --- |
| *execEnable* | 1 | RO | The attribute can be blank without any value or it can contain an address that can be used to trigger execution of <mgmtCmd> using UPDATE method. |

So CR proposes to remove this consistency by replacing address with value

*execMode*: TS-0004 mentions that it has a default value as “immediateOnce” so its multiplicity should be 1 in TS-0001.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| *execMode* | M | O | m2m:execModeType | IMMEDIATEONCE, IMMEDIATEREPEAT, RANDOMONCE, RANDOMREPEAT  Default=IMMEDIATEONCE |

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

### 9.6.16 Resource Type *mgmtCmd*

The *<mgmtCmd>* resource represents a method to execute management procedures or to model commands and remote procedure calls (RPC) required by existing management protocols (e.g. BBF TR-069 [i.2]), and enables AEs to request management procedures to be executed on a remote entity. It also enables cancellation of cancellable and initiated but unfinished management procedures or commands.



Figure 9.6.16-1: Structure of *<mgmtCmd>* resource

Each *<mgmtCmd>* corresponds to a specific type of management command, as defined by its attribute *cmdType*. For multiple requests of the same management command, *<mgmtCmd>* shall use separate child-resources (i.e.*<execInstance>*) to contain each execution instance. The execution of the management procedure represented by *<mgmtCmd>* shall be triggered using the UPDATE method to its attribute *execEnable*.

The *<mgmtCmd>* resource shall contain the child resources specified in table 9.6.16-1.

Table 9.6.16-1: Child resources of *<mgmtCmd>* resource

| Child Resources of *<mgmtCmd>* | Child Resource Type | Multiplicity | Description |
| --- | --- | --- | --- |
| *[variable]* | *<subscription>* | 0..n | See clause 9.6.8 |
| *[variable]* | *<execInstance>* | 0..n | See clause 9.6.17 |

The *<mgmtCmd>* resource shall contain the attributes specified in table 9.6.16-2.

Table 9.6.16-2: Attributes of *<mgmtCmd>* resource

| Attributes of *<mgmtCmd>* | Multiplicity | RW/  RO/  WO | Description |
| --- | --- | --- | --- |
| *resourceType* | 1 | RO | See clause 9.6.1.3 |
| *resourceID* | 1 | RO | See clause 9.6.1.3. |
| *resourceName* | 1 | WO | See clause 9.6.1.3. |
| *parentID* | 1 | RO | See clause 9.6.1.3. |
| *expirationTime* | 1 | RW | See clause 9.6.1.3 |
| *accessControlPolicyIDs* | 0..1 (L) | RW | See clause 9.6.1.3 |
| *labels* | 0..1 (L) | RW | See clause 9.6.1.3 |
| *creationTime* | 1 | RO | See clause 9.6.1.3 |
| *lastModifiedTime* | 1 | RO | See clause 9.6.1.3 |
| *dynamicAuthorizationConsultationIDs* | 0..1 (L) | RW | See clause 9.6.1.3. |
| *description* | 0..1 | RW | The text-format description of this resource. |
| *cmdType* | 1 | WO | The type to identify the management operation (e.g. download). |
| *execReqArgs* | 0..1 | RW | Structured attribute (e.g. abstract type) to contain any command-specific arguments of the request. |
| *execEnable* | 0..1 | RW | The attribute can be blank without any value or it can contain a value that can be used to trigger execution of *<mgmtCmd>* using UPDATE method. |
| *execTarget* | 1 | RW | ID of the *<node>* resource of the target on which this *<mgmtCmd>* will be executed. It may be the URI of a *<group>* resource in which case the *<mgmtCmd>* will be executed on all members in the *memberIDs* attribute of the addressed *<group>* resource. |
| *execMode* | 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. |
| *execFrequency* | 0..1 | RW | The minimum interval between two executions, to be used in conjunction with *execMode*. Modes involving random execution can be used to add random values between individual executions. |
| *execDelay* | 0..1 | RW | The minimum delay before the instance should be executed. Modes involving random execution can be used to increase this delay randomly. |
| *execNumber* | 0..1 | RW | The number of times the instance should be executed, to be used when *execMode* indicates a repetition pattern. |

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