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| CHANGE REQUEST |
| Meeting ID:\* | PRO 30.1 |
| Source:\* | Moode Giribabu Naik, C-DOT, moode@cdot.inPoornima, C-DOT,poornima@cdot.in |
| Date:\* | 2017-07-27 |
| Reason for Change/s:\* | See the introduction  |
| CR against: Release\* | Release 3 |
| CR against: WI\* | [ ]  Active <Work Item number> [x]  MNT maintenance / < Work Item number(optional)>Is this a mirror CR? Yes [ ]  No [x] mirror CR number: (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 3.2.0 |
| Clauses \* | 7.4.15.2.4 |
| 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 to change the description given in <mgmtObj> Update procedure in clause 7.4.15.2.4.

It is given that in section 7.4.15.2.4 of TS-0004, the execution is performed using an Update primitive which without any content as the payload part of the primitive by addressing specific attribute to start the management procedure.

But, in TS-0004, **Table 7.2.1.1-1: Request Primitive Parameters** we can see that Content is mandatory for the UPDATE request as highlighted below:

Table 7.2.1.1‑1: Request Primitive Parameters

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Primitive Parameter** | **CREATE** | **RETRIEVE** | **UPDATE** | **DELETE** | **NOTIFY** |
| Operation | M | M | M | M | M |
| To | M | M | M | M | M |
| From | OSee note | M | M | M | M |
| Request Identifier | M | M | M | M | M |
| Resource Type | M | NP | NP | NP | NP |
| Content | M | O | M | NP | M |
| Role IDs | O | O | O | O | O |
| Originating Timestamp | O | O | O | O | O |
| Request Expiration Timestamp | O | O | O | O | O |
| Result Expiration Time | O | O | O | O | O |
| Operation Execution Time | O | O | O | O | O |
| Response Type | O | O | O | O | O |
| Result Persistence | O | O | O | O | NP |
| Result Content | O | O | O | O | NP |
| Event Category | O | O | O | O | O |
| Delivery Aggregation | O | O | O | O | O |
| Group Request Identifier | O | O | O | O | O |
| Filter Criteria | NP | O | O | O | NP |
| Discovery Result Type | NP | O | NP | NP | NP |
| Tokens | O | O | O | O | O |
| Token IDs | O | O | O | O | O |
| Local Token IDs | O | O | O | O | O |
| Token Request Indicator | O | O | O | O | O |
| NOTE: The *From* parameter is Mandatory for all requests except for AE CREATE. For AE CREATE, it is Optional. |

Also,

In TS-0001 Functional Architecture Document, in the section 10.2.8.6 Execute <mgmtObj>, it is given that:

At the Originator, for an execute operation, the **Content** parameter shall be included with the name of such attribute(s) with predefined value(s) to trigger the respective action.

Table 10.2.8.6-1: *<mgmtObj>* EXECUTE

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| *<mgmtObj>* EXECUTE |
| Associated Reference Point | Mcc and Mca |
| Information in Request message | ***From:*** Identifier of the IN-AE, or the CSE that initiates the Request***To:*** The address of the *<mgmtObj>* resource |
| Processing at Originator before sending Request | The Originator shall be an IN-AE. The Originator shall request to execute a management command which is represented by a *<mgmtObj>* resource or its attribute by using an UPDATE operationThe request shall address the executable *<mgmtObj>* resource. For an execute operation on an attribute(s), the ***Content*** parameter shall be included with the name of such attribute(s) with predefined value(s) to trigger the respective actionAfter the execution request, the Originator shall request to retrieve the execution result or status from the executable *<mgmtObj>* resource or its attribute/child resource by using a RETRIEVE operation as specified in clause 10.2.7.3 |
| Processing at Receiver | For the EXECUTE operation , the Receiver shall:* Check if the Originator has the WRITE privilege on the addressed *<mgmtObj>* resource or its attribute
* Check if there is an existing management session between the management server and the managed entity. If not, request the management server to establish a management session towards the managed entity. Send the technology specific request to execute the corresponding management command (e.g. "Exec" in OMA DM [i.3]) on the managed entity based on technology specific protocol
* Respond to the Originator with the appropriate response based on the technology specific response. If available, the technology specific response shall contain execution results
* Retrieve the execution result or status from the executable *<mgmtObj>* resource or its attribute, perform the procedures as described in clause 10.2.8.3
* Upon receiving a management notification (e.g. OMA-DM [i.3] "Generic Alert" message or BBF TR-069 [i.2] "Inform" message) from a managed entity regarding the execution result or status, the Receiver shall send the technology specific request to retrieve the execution result or status of the technology specific data model object information received from the managed entity and update the corresponding *<mgmtObj>* resource or its attribute
 |
| Information in Response message | Error code if the technology specific request cannot be executed |
| Processing at Originator after receiving Response | None |
| Exceptions | * Corresponding technology specific request cannot be executed in managed entity (e.g. not reachable, technology specific data model object not found)
 |

So, we propose to change that the execution of <mgmtObj> resource is performed by including Content parameter with specific attribute(s) to trigger the management procedure.

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

##### Update

The Update primitive is used for the update of the resource as well as the execution of a management procedure. The execution is performed using an Update primitive with content as the payload part of the primitive by addressing specific attribute to start the management procedure.

Primitive specific operation after Recv-6.5 "Create/Update/Retrieve/Delete/Notify operation is performed" and before Recv-6.6 "Announce/De-announce the resource" if the originator is IN-AE.

1. "Identify the managed entity and the technology specific protocol".
2. "Locate the technology specific data model objects to be managed on the managed entity".
3. "Establish a management session with the managed entity".
4. "Send the management request(s) to the managed entity corresponding to the received Request primitive". The receiver may also update the <mgmtObj> resource representation with the retrieved technology specific data model object information if required according to the local policy.

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