|  |
| --- |
|  |

|  |
| --- |
| CHANGE REQUEST |
| Meeting ID:\* | PRO 31 |
| Source:\* | Neeta Meshram, C-DOT, neeta@cdot.in Poornima Shandilya, C-DOT, poornima@cdot.inSuman Sheoran, C-DOT, ssheoran@cdot.in |
| Date:\* | 2017-09-13 |
| 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 3.3.0 |
| Clauses \* | 7.4.14.2.4 |
| 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) |

**oneM2M Notice**

The document to which this cover statement is attached is submitted to oneM2M. Participation in, or attendance at, any activity of oneM2M, constitutes acceptance of and agreement to be bound by terms of the Working Procedures and the Partnership Agreement, including the Intellectual Property Rights (IPR) Principles Governing oneM2M Work found in Annex 1 of the Partnership Agreement.

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

This CR proposes to add section 7.3.3.1 'check supported resource Type' in the flow of 'Figure 7.2.2.2‑5: Resource handling procedure'.

This CR also proposes to correct *Response Status Code* returned in case of 'check supported resource Type' from "NOT IMPLEMENTED" to "NOT\_IMPLEMENTED".

In TS-0004, 'Figure 7.2.2.2‑5: Resource handling procedure', After checking *Recv-6.1: Hosting CSE of the targeted resource* flow directly goes to *Recv-6.2: “Check existence of the addressed resource”.* Flow never goes to "Check supported resource Type".Instead, first there should be a step *Recv-6.2.1:* *'Check supported resource Type'* as described in section 7.3.3.1 and then it should go to step *Recv-6.2.1:* "*Check existence of the addressed resource*".

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

#### Generic procedure for handling a Request at a receiver

The Receiver shall execute the following steps in order. In case of error in any of the steps below, the Receiver shall execute "Create an error response" (refer to clause 7.3.3.13 for details) and then "Send Response primitive" (refer to clause 7.3.2.4 for details). The corresponding Response code shall be included in the Response primitive.

Recv-1.0: “Check the validity of received request primitive”

Recv-2.0: Communication method?

Recv-6.0: Resource handling procedures

Recv-3.0: “Create <request> resource locally”

Recv-4.0: “Create a success Response”

Recv-5.0: “Send Response primitive”

nonBlockingRequestAsynch

nonBlockingRequestSynch

Recv-6.0: Resource handling procedures

Recv-7.0: “Update <request> resource”

Finish

Start

Recv-3.0: “Create <request> resource locally”

Recv-4.0: “Create a success Response”

Recv-5.0: “Send Response primitive”

Recv-6.0: Resource handling procedures

Recv-7.0: “Update <request> resource”

Recv-8.0: “Send Notification”

Recv-9.0: “Wait for Response primitive”

blockingRequest

Recv-10.0: “Send Response Primitive”

Figure 7.2.2.2‑1: Generic procedure of Receiver

Recv-1.0 "Check the validity of received request primitive": See clause 7.3.2.1 for details.

Recv-2.0 "Communication method?": The Receiver CSE checks whether a received request is blockingRequest, nonBlockingRequestSynch or nonBlockingRequestAsynch by using ***Response Type*** parameter (see detail in clause 8.1.2 in TS-0001 [6]). If the request is blockingRequest or ***Response Type*** parameter is not included, it goes to step Recv-6.0 "Resource handling procedure". If the request is nonBlockingRequestSynch, it goes to step Recv-3.0 "Create <request> resource locally" If the request is nonBlockingRequestAsynch, it goes to step Recv-3.0 "Create <request> resource locally". If the request is flexBlocking, the Receiver CSE shall make the decision to respond using blocking or non-blocking based on its own local context (memory, processing capability, etc.) unless specified further in the resource-specific procedure.

Recv-3.0 "Create <request> resource locally": Please refer to clause 7.3.2.2 for details.

Recv-4.0 "Create a successResponse": Please refer to clause 7.3.3.12 for details.

Recv-5.0 "Send Response Primitive": Please refer to clause 7.3.2.4 for details.

Recv-6.0 "Resource handling procedure": Please refer to Figure 7.2.2.2‑2 for details.

Recv-7.0 "Update <request> resource": Please refer to clause 7.3.2.5 for details. This step is only valid when the request is non-blocking.

Recv-8.0 "Send Notification": Please refer to clause 7.5.1.2.5 for details.

Recv-9.0 "Wait for a Response primitive": Please refer to clause 7.3.1.3 for details.

Recv-10.0 "Send Response Primitive": Please refer to clause 7.3.3.16 for details.

Recv-6.10: “Queue request primitive and execute CMDH message forwarding procedure”

Recv-6.1: Hosting CSE of the targeted resource?

Start

Recv-6.3: “Check authorization of the Originator”

Recv-6.4: “Check validity of resource representation for the given resource type”

Recv-6.2.1: “Check supported resource Types”

Recv-6.5: “Create/Update/Retrieve/Delete/Notify operation is performed”

Recv-6.6: “Announce/De-announce the resource”

Finish

Yes

No

Recv-6.7: “Create a success response”

Recv-6.9: CMDH processing supported?

Recv-6.11: “Forwarding”

No

Yes

Recv-6.0.1: Requested operation is an AE registration?

Recv-6.0.2: “Check Service Subscription Profile”

Yes

No

Recv-6.6.1: “Communication Method?”

Else

blockingRequest

Recv-6.2.2: “Check existence of the addressed resource”

Figure 7.2.2.2‑2: Resource handling procedure

The above figure describes the generic procedure to resource handling procedures.

Recv-6.0.1 "Requested operation is an AE registartion?": If the requested operation is an AE registartion, then it goes to Recv-6.0.2 "Check Service Subscription Profile". Otherwise, it goes to Recv-6.1.

Recv-6.0.2 "Check Service Subscription Profile": Please refer to clause 7.3.2.7 for details.

Recv-6.1 "Hosting CSE of the targeted resource?": The step checks if the receiver is a transit CSE or the Hosting CSE of the received Request by examining the ***To*** parameter of the Request primitive. If the receiver hosts the resource that the address in the ***To*** parameter represents, the receiver is the Hosting CSE (goes to Recv-6.2"Check existence of the addressed resource", Yes branch). Otherwise, the receiver is the Transit CSE (goes to Recv-6.9 "CMDH processing supported?", No branch). Please refer to clause 7.3.2.8 for details.

1. Recv-6.2.1 "Check supported resource types": Please refer to clause 7.3.3.1 for details.

Recv-6.2.2 "Check existence of the addressed resource": Please refer to clause 7.3.3.2 for details.

Recv-6.3 "Check authorization of the Originator": Please refer to clause 7.3.3.15 for details.

Recv-6.4 "Check validity of resource representation": Please refer to clause 7.3.3.3 and clause 7.3.3.4 for details. Notify is not applicable for this step.

Recv-6.5 "Create/Update/Retrieve/Delete/Notify operation is performed": The step represents five common operations which are "Create the resource (clause 7.3.3.5)", "Retrieve the resource (clause 7.3.3.6)", "Update the resource (clause 7.3.3.7)", "Delete the resource (clause 7.3.3.8)" and "Notify processing (clause 7.3.3.9)".

Recv-6.6 "Announce/De-announce the resource": The step represents two common operations which are "Announce the resource" and "De-announce the resource". Please refer to clause 7.3.3.10 and clause 7.3.3.11 for details. Notify is not applicable for this step.

Recv-6.6.1 "Communication method?": The Receiver CSE checks whether a received request is blockingRequest or not by using ***Response Type*** parameter (see detail in clause 8.1.2 in TS-0001 [6]). If the request was blockingRequest or ***Response Type*** parameter was not included, it goes to step Recv-6.7 "Create a success response". Otherwise, it goes back to the generic procedure of the receiver (Figure 7.2.2.2‑1).

Recv-6.7 "Create a success response": Please refer to clause 7.3.3.12 for details.

Recv-6.9 "CMDH processing supported?": This step checks whether the Receiver supports the CMDH processing. If the receiver supports CMDH processing, it goes to Recv-6.10 "Queue request primitive and execute CMDH message forwarding procedure" otherwise, it goes to Recv-6.11 “Forwarding”.

Recv-6.10 "Queue request primitive and execute CMDH message forwarding procedure": the Receiver CSE shall queue the received request primitive and execute the "CMDH message forwarding procedure". Please refer to Annex H.2.4. for details.

Recv-6.11 "Forwarding": carry out message forwarding as defined in clause 7.3.2.6.

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

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

#### 7.3.3.1 Check supported resource types

If the request is a valid request, but the Hosting CSE does not implement the requested resource type, then the Hosting CSE shall reject the request and return an error response with ***Response Status Code*** indicating "NOT\_IMPLEMENTED".

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