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| CHANGE REQUEST |
| Meeting ID:\* | PRO 32 |
| Source:\* | Bob Flynn, Convida Wireless; Flynn.bob@convidawireless.com |
| Date:\* | 2017-11-15 |
| Reason for Change/s:\* | Release Version Procedures |
| CR against: Release\* | Release 2 |
| CR against: WI\* | [ ]  Active <Work Item number> [ ]  MNT maintenance / < Work Item number(optional)>Is this a mirror CR? Yes [ ]  No [x] mirror CR number: (Note to Rapporteur - use latest agreed revision)[x]  STE Small Technical Enhancements / < Work Item number (optional)>Only ONE of the above shall be ticked |
| CR against: TS/TR\* | TS-0008 Version 2.3.1 |
| Clauses \* |  |
| Type of change: \* | [ ]  Editorial change[ ]  Bug Fix or Correction[ ]  Change to existing feature or functionality[x]  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 [x]  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

Adds COAP bind for new request/response parameter, ***Release Version Indicator*** (**rvi**)

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

##### 6.2.2.4.0 Introduction

This clause describes new CoAP Options used for binding several oneM2M request/response parameters. Table 6.2.2.4.0-1 contains definitions of the new CoAP Options and sub-clauses specify oneM2M parameter mapping with the newly defined CoAP Options in the table 6.2.2.4.0-1.

Table 6.2.2.4.0-1: Definition of New Options

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| No | C | U | N | R | Name | Format | Length | Default |
| 256 |  |  |  |  | oneM2M-FR | string | 0-255 | (None) |
| 257 |  |  |  |  | oneM2M-RQI | string | 0-255 | (None) |
| 259 |  |  |  |  | oneM2M-OT | string | 15 | (None) |
| 260 |  |  |  |  | oneM2M-RQET | string | 15 | (None) |
| 261 |  |  |  |  | oneM2M-RSET | string | 15 | (None) |
| 262 |  |  |  |  | oneM2M-OET | string | 15 | (None) |
| 263 |  |  |  |  | oneM2M-RTURI | string | 0-255 | (None) |
| 264 |  |  |  |  | oneM2M-EC | uint | 1 | (None) |
| 265 |  |  |  |  | oneM2M-RSC | uint | 2 | (None) |
| 266 |  |  |  |  | oneM2M-GID | string | 0-255 | (None) |
| 267 |  |  |  |  | oneM2M-TY | uint | 2 | (None) |
| 268 |  |  |  |  | oneM2M-CTO | uint | 2 | (None) |
| 269 |  |  |  |  | oneM2M-CTS | uint | 2 | (None) |
| 270 |  |  |  |  | oneM2M-ATI | string | 0-255 | (None) |
| 271 |  |  |  |  | oneM2M-RVI | String | 15 | (None) |
| NOTE 1: C, U, N, R means Critical, Unsafe, NoCacheKey and Repeatable respectively [1]. Table 6.2.2.4.0-1 follows the template used in clause 5.10 Option Definitions of CoAP specification [1].NOTE 2: CoAP Option numbers specified in table 6.2.2.4.0-1 are subject to change after review by IANA registration. |

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

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

* + 1.

### 6.2.4 Response Codes Mapping

Table 6.2.4-1 defines a mapping between oneM2M ***Response Status Code*** parameter specified in [2] and CoAP Response Code.

In case of where multiple oneM2M ***Response Status Code*** parameters are mapped to single CoAP Status Code, ***Response Status Code*** parameter shall be specified in oneM2M-RSC Option.

Table 6.2.4-1 Mapping between oneM2M Response Status Code and CoAP Response Code

|  |  |  |  |
| --- | --- | --- | --- |
| oneM2M Response Status Code | Description | Status Code of CoAP | Description |
| 1000 | ACCEPTED | None | Empty Acknowledgement Message shall be used |
| 2000 | OK | 2.05 | Content |
| 2001 | CREATED | 2.01 | Created |
| 2002 | DELETED | 2.02 | Deleted |
| 2004 | UPDATED | 2.04 | Changed |
| 4000 | BAD\_REQUEST | 4.00 | Bad Request |
| 4001 | RELEASE\_VERSION\_NOT\_SUPPORTED | 4.00 | Bad Request |
| 4004 | NOT\_FOUND | 4.04 | Not Found |
| 4005 | OPERATION\_NOT\_ALLOWED | 4.05 | Method Not Allowed |
| 4008 | REQUEST\_TIMEOUT | 4.04 | Not Found |
| 4101 | SUBSCRIPTION\_CREATOR\_HAS\_NO\_PRIVILEGE | 4.03 | Forbidden |
| 4102 | CONTENTS\_UNACCEPTABLE | 4.00 | Bad Request |
| 4103 | ORIGINATOR\_HAS\_NO\_PRIVILEGE | 4.03 | Forbidden |
| 4104 | GROUP\_REQUEST\_IDENTIFIER\_EXISTS | 4.00 | Bad Request |
| 4105 | CONFLICT | 4.03 | Forbidden |
| 4106 | ORIGINATOR\_HAS\_NOT\_REGISTERED | 4.03 | Forbidden |
| 4107 | SECURITY\_ASSOCIATION\_REQUIRED | 4.03 | Forbidden |
| 4108 | INVALID\_CHILD\_RESOURCE\_TYPE | 4.03 | Forbidden |
| 4109 | NO\_MEMBERS | 4.03 | Forbidden |
| 4110 | GROUP\_MEMBER\_TYPE\_INCONSISTENT | 4.00 | Bad Request |
| 4111 | ESPRIM\_UNSUPPORTED\_OPTION | 4.03 | Forbidden |
| 4112 | ESPRIM\_UNKNOWN\_KEY\_ID | 4.03 | Forbidden |
| 4113 | ESPRIM\_UNKNOWN\_ORIG\_RAND\_ID | 4.03 | Forbidden |
| 4114 | ESPRIM\_UNKNOWN\_RECV\_RAND\_ID | 4.03 | Forbidden |
| 4115 | ESPRIM\_BAD\_MAC | 4.03 | Forbidden |
| 4116 | ESPRIM\_IMPERSONATION\_ERROR | 4.03 | Forbidden |
| 5000 | INTERNAL\_SERVER\_ERROR | 5.00 | Internal Server Error |
| 5001 | NOT\_IMPLEMENTED | 5.01 | Not Implemented |
| 5103 | TARGET\_NOT\_REACHABLE | 4.04 | Not Found |
| 5105 | RECEIVER\_HAS\_NO\_PRIVILEGE | 4.03 | Forbidden |
| 5106 | ALREADY\_EXISTS | 4.00 | Bad Request |
| 5203 | TARGET\_NOT\_ SUBSCRIBABLE | 4.03 | Forbidden |
| 5204 | SUBSCRIPTION\_VERIFICATION\_INITIATION\_FAILED | 5.00 | Internal Server Error |
| 5205 | SUBSCRIPTION\_HOST\_HAS\_NO\_PRIVILEGE | 4.03 | Forbidden |
| 5206 | NON\_BLOCKING\_REQUEST\_NOT\_SUPPORTED | 5.01 | Not Implemented |
| 5207 | NOT\_ACCEPTABLE | 4.06 | Not Acceptable |
| 5208 | DISCOVERY\_DENIED\_BY\_IPE | 4.03 | Forbidden |
| 5209 | GROUP\_MEMBERS\_NOT\_RESPONDED | 5.00 | Internal Server Error |
| 5210 | ESPRIM\_DECRYPTION\_ERROR | 5.00 | Internal Server Error |
| 5211 | ESPRIM\_ENCRYPTION\_ERROR | 5.00 | Internal Server Error |
| 5212 | SPARQL\_UPDATE\_ERROR | 5.00 | Internal Server Error |
| 6003 | EXTENAL\_OBJECT\_NOT\_REACHABLE | 4.04 | Not Found |
| 6005 | EXTENAL\_OBJECT\_NOT\_FOUND | 4.04 | Not Found |
| 6010 | MAX\_NUMBERF\_OF\_MEMBER\_EXCEEDED | 4.00 | Bad Request |
| 6020 | MGMT\_SESSION\_CANNOT\_BE\_ESTABLISHED | 5.00 | Internal Server Error |
| 6021 | MGMT\_SESSION\_ESTABLISHMENT \_TIMEOUT | 5.00 | Internal Server Error |
| 6022 | INVALID\_CMDTYPE | 4.00 | Bad Request |
| 6023 | INVALID\_ARGUMENTS | 4.00 | Bad Request |
| 6024 | INSUFFICIENT\_ARGUMENTS | 4.00 | Bad Request |
| 6025 | MGMT\_CONVERSION\_ERROR | 5.00 | Internal Server Error |
| 6026 | MGMT\_CANCELATION\_FAILED | 5.00 | Internal Server Error |
| 6028 | ALREADY\_COMPLETE | 4.00 | Bad Request |
| 6029 | MGMT\_COMMAND\_NOT\_CANCELLABLE | 4.00 | Bad Request |

The Receiver decides the ***Response Status Code*** parameter using the combination of CoAP Response Code and oneM2M-RSC Option information.

### -----------------------End of change 2-------------------------------------------

### -----------------------Start of change 3-------------------------------------------

# A.1 Blocking case of AE Registration

Figure A.1-1 illustrates CoAP mapping of AE Registration procedure described in clauses 7.2.2.1, 7.4.6.2.2 and E.1 of oneM2M TS-0004 [2] and shows an example of blocking case which is described in clause 6.3.1.



Figure A.1-1 Binding Example - Blocking case of AE Registration

# A.2 Non-blocking synchronous case of AE Registration

Figure A.2-1 illustrates CoAP mapping of AE Registration procedure described in clauses 7.2.2.1, 7.4.6.2.2 and E.2 of oneM2M TS-0004 [2] and shows an example of non-blocking synchronous case which is described in clause 6.3.3.



Figure A.2‑1: Binding Example - Non-blocking synchronous case of AE Registration

### -----------------------End of change 3-------------------------------------------

### -----------------------Start of change 4-------------------------------------------

### -----------------------End of change 4-------------------------------------------

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?
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* 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.?