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| CHANGE REQUEST | |
| Meeting ID:\* | SDS #67 |
| Source:\* | Andreas Kraft, Exacta GSS, andreas.kraft@exactagss.com |
| Date:\* | 2024-10-28 |
| Reason for Change/s:\* | TS-0009: Add missing INVALID\_PROCESS\_CONFIGURATION status code mapping |
| CR against: Release\* | Release 4 |
| CR against: WI\* | Active WI-xxxx  MNT maintenance / < Work Item number(optional)>  Is this a mirror CR? Yes  No  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-0009 v.4.5.0 |
| Clauses \* | 6.3.2 |
| 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 |
| Impacted other TS/TR(s) |  |
| 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 |
| 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

This Change Request proposes adding the missing mapping of the *INVALID\_PROCESS\_CONFIGURATION* status code to an http status.

The reason for mapping this status code to 400 (Bad Request) is that this is a client error that could be prevented.

If this CR is accepted a similar CR for TS-0008 will follow.

### \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Start of Change 1 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

### 6.3.2 Status-Code

The ***Response Status Code*** parameter of response primitives shall be mapped to the HTTP Status-Code. Since the ***Response Status Code*** parameter values have been defined with more detailed information than HTTP status codes, one or more ***Response Status Code*** value may be mapped to the same HTTP Status-Code. The original ***Response Status Code*** parameter value shall be carried in the X-M2M-RSC header (see clause 6.4.17).

The mapping of ***Response Status Code*** parameter value of oneM2M request primitive to Status-Code of HTTP request messages is specified in table 6.3.2-1.

| Table 6.3.2-1: Status Code MappingoneM2M Response Status Codes | HTTP Status Codes [10] |
| --- | --- |
| 2000 (OK) | 200 (OK) |
| 2002 (DELETED) |
| 2004 (UPDATED) |
| 2001 (CREATED) | 201 (Created) |
| 1000 (ACCEPTED) | 202 (Accepted) |
| 1001 (ACCEPTED for nonBlockingRequestSynch) |
| 1002 (ACCEPTED for nonBlockingRequestAsynch) |
| 4000 (BAD\_REQUEST) | 400 (Bad Request) |
| 4102 (CONTENTS\_UNACCEPTABLE) |
| 4110 (GROUP\_MEMBER\_TYPE\_INCONSISTENT) |
| 4120 (INVALID\_SEMANTICS) |
| 4122 (INVALID\_TRIGGER\_PURPOSE) |
| 4123 (ILLEGAL\_TRANSACTION\_STATE\_TRANSITION\_ATTEMPTED) |
| 4131 (ONTOLOGY\_MAPPING\_POLICY\_NOT\_MATCHED) |
| 4133 (BAD\_FACT\_INPUTS\_FOR\_REASONING) |
| 4134 (BAD\_RULE\_INPUTS\_FOR\_REASONING) |
| 4137 (PRIMITIVE\_PROFILE\_BAD\_REQUEST) |
| 4142 (INVALID\_PROCESS\_CONFIGURATION) |
| 4143 (INVALID\_SPARQL\_QUERY) |
| 6010 (MAX\_NUMBER\_OF\_MEMBER\_EXCEEDED) |
| 6022 (INVALID\_CMDTYPE) |
| 6023 (INVALID\_ARGUMENTS) |
| 6024 (INSUFFICIENT\_ARGUMENTS) |
|  |
| 4101 (SUBSCRIPTION\_CREATOR\_HAS\_NO\_PRIVILEGE) | 403 (Forbidden) |
| 4103 (ORIGINATOR\_HAS\_NO\_PRIVILEGE) |
| 5105 (RECEIVER\_HAS\_NO\_PRIVILEGE) |
|  |
| 5203 (TARGET\_NOT\_SUBSCRIBABLE) |
| 5205 (SUBSCRIPTION\_HOST\_HAS\_NO\_PRIVILEGE) |
| 4106 (ORIGINATOR\_NOT\_AUTHENTICATED) |
| 4107 (SECURITY\_ASSOCIATION\_REQUIRED) |
| 4108 (INVALID\_CHILD\_RESOURCE\_TYPE) |
| 4109 (NO\_MEMBERS) |
| 4111 (ESPRIM\_UNSUPPORTED\_OPTION) |
| 4112 (ESPRIM\_UNKNOWN\_KEY\_ID) |
| 4113 (ESPRIM\_UNKNOWN\_ORIG\_RAND\_ID) |
| 4114 (ESPRIM\_UNKNOWN\_RECV\_RAND\_ID) |
| 4115 (ESPRIM\_BAD\_MAC) |
| 4116 (ESPRIM\_IMPERSONATION\_ERROR) |
| 4117 (ORIGINATOR\_HAS\_ALREADY\_REGISTERED) |
| 4126 (APP\_RULE\_VALIDATION\_FAILED) |
| 4127 (OPERATION\_DENIED\_BY\_REMOTE\_ENTITY) |
| 4128 (SERVICE\_SUBSCRIPTION\_NOT\_ESTABLISHED) |
| 4135 (DISCOVERY\_LIMIT\_EXCEEDED) |
| 4136 (PRIMITIVE\_PROFILE\_NOT\_ACCESSIBLE) |
| 4138 (UNAUTHORIZED\_USER) |
| 4139 (SERVICE\_SUBSCRIPTION\_NOT\_ACTIVE) |
| 5208 (DISCOVERY\_DENIED\_BY\_IPE) |
| 5214 (TARGET\_HAS\_NO\_SESSION\_CAPABILITY) |
| 5215 (SESSION\_IS\_ONLINE) |
| 5218 (TRIGGERING\_DISABLED\_FOR\_RECIPIENT) |
| 5222 (TRANSACTION\_PROCESSING\_IS\_INCOMPLETE) |
| 6034 (REQUESTED\_ACTIVITY\_PATTERN\_NOT\_PERMITTED) |
| 4004 (NOT\_FOUND) | 404 (Not Found) |
| 4118 (ONTOLOGY\_NOT\_AVAILABLE) |
| 4119 (LINKED\_SEMANTICS\_NOT\_AVAILABLE) |
| 4121 (MASHUP\_MEMBER\_NOT\_FOUND) |
| 4130 (ONTOLOGY\_MAPPING\_ALGORITHM\_NOT\_AVAILABLE) |
| 4132 (ONTOLOGY\_MAPPING\_NOT\_AVAILABLE) |
| 5103 (TARGET\_NOT\_REACHABLE) |
| 5107 (REMOTE\_ENTITY\_NOT\_REACHABLE) |
| 6003 (EXTERNAL\_OBJECT\_NOT\_REACHABLE) |
| 6005 (EXTERNAL\_OBJECT\_NOT\_FOUND) |
| 4005 (OPERATION\_NOT\_ALLOWED) | 405 (Method Not Allowed) |
| 5207 (NOT\_ACCEPTABLE) | 406 (Not Acceptable) |
|  |  |
| 4104 (GROUP\_REQUEST\_IDENTIFIER\_EXISTS) | 409 (Conflict) |
| 4105 (CONFLICT) |
| 4124 (BLOCKING\_SUBSCRIPTION\_ALREADY\_EXISTS) |
| 4140 (SOFTWARE\_CAMPAIGN\_CONFLICT) |
| 5106 (ALREADY\_EXISTS) |
| 5219 (UNABLE\_TO\_REPLACE\_REQUEST) |
| 5220 (UNABLE\_TO\_RECALL\_REQUEST) |
| 6028 (ALREADY\_COMPLETE) |
| 6029 (MGMT\_COMMAND\_NOT\_CANCELLABLE) |
| 4015 (UNSUPPORTED\_MEDIA\_TYPE) | 415 (Unsupported Media Type) |
| 5000 (INTERNAL\_SERVER\_ERROR) | 500 (Internal Server Error) |
| 5204 (SUBSCRIPTION\_VERIFICATION\_INITIATION\_FAILED) |
| 5209 (GROUP\_MEMBERS\_NOT\_RESPONDED) |
| 5210 (ESPRIM\_DECRYPTION\_ERROR) |
| 5211 (ESPRIM\_ENCRYPTION\_ERROR) |
| 5212 (SPARQL\_UPDATE\_ERROR) |
| 5216 (JOIN\_MULTICAST\_GROUP\_FAILED) |
| 5217 (LEAVE\_MULTICAST\_GROUP\_FAILED) |
| 5221 (CROSS\_RESOURCE\_OPERATION\_FAILURE) |
| 5230 (ONTOLOGY\_MAPPING\_ALGORITHM\_FAILED) |
| 5231 (ONTOLOGY\_CONVERSION\_FAILED) |
| 5232 (REASONING\_PROCESSING\_FAILED) |
| 6020 (MGMT\_SESSION\_CANNOT\_BE\_ESTABLISHED) |
| 6021 (MGMT\_SESSION\_ESTABLISHMENT\_TIMEOUT) |
| 6025 (MGMT\_CONVERSION\_ERROR) |
| 6026 (MGMT\_CANCELLATION\_FAILED) |
| 6033 (NETWORK\_QOS\_CONFIG\_ERROR) |
| 4001 (RELEASE\_VERSION\_NOT\_SUPPORTED) | 501 (Not Implemented) |
| 4125 (SPECIALIZATION\_SCHEMA\_NOT\_FOUND) |
| 5001 (NOT\_IMPLEMENTED) |
| 5206 (NON\_BLOCKING\_SYNCH\_REQUEST\_NOT\_SUPPORTED) |
| 4008 (REQUEST\_TIMEOUT) | 504 (Gateway Timeout) |
| 6030 (EXTERNAL\_OBJECT\_NOT\_REACHABLE\_BEFORE\_RQET\_TIMEOUT) |
| 6031 (EXTERNAL\_OBJECT\_NOT\_REACHABLE\_BEFORE\_OET\_TIMEOUT) |

### \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* End of Change 1 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*