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| CHANGE REQUEST |
| Meeting ID:\* |  SDS #57 |
| Source:\* | Poornima Shandilya, C-DOT, poornima@cdot.inNeeta Meshram, C-DOT, neeta@cdot.in Anupama Chopra, C-DOT, anupama@cdot.in  |
| Date:\* | 2022-11-22 |
| Reason for Change/s:\* | New Attribute in SSN resource |
| 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)[x]  STE Small Technical Enhancements / < Work Item number (optional)>Only ONE of the above shall be ticked |
| CR against: TS/TR\* | TS-0004 v4.12 |
| Clauses \* | 6.3.4.2.92, 7.4.20.1-3, 7.4.20.2.1, 7.4.20.2.3, 7.4.20.2.4  |
| Type of change: \* | [ ]  Editorial change[ ]  Bug Fix or Correction[x]  Change to existing feature or functionality[ ]  New feature or functionalityOnly ONE of the above shall be ticked |
| Impacted other TS/TR(s) | TS-0001, TS-0026 |
| 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 [x]  |
| 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 CR is corresponding to the issue raised on git

**Issue #61**

[Handling on failure of NIDD Configuration (#61) · Issues · ISSUES / Issues · GitLab (onem2m.org)](https://git.onem2m.org/issues/issues/-/issues/61)

Currently we don’t know the status of NIDD Configuration triggered on setting niddRequired set to TRUE, for keeping the status a new attribute was discussed. The CR proposes to add new attribute in <serviceSubscribedNode> resource as decided during issue discussion.

R01

Update request is rejected when there is *niddRequired* attribute is deleted from resource.

R02

Additional values added in *niddConfigStatus* attribute proposed through this CR.

Handling according to the proposed values in CREATE, UPDATE and DELETE request.

R03

Changed one value of *niddConfigStatus* attribute from INITIALIZED to IN-PROCESS

BAD\_REQUEST to NIDD\_CONFIGURATION\_PROCESSING\_INCOMPLETE

NIDD\_CONFIGURATION\_PROCESSING\_INCOMPLETE RSC added.

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

Table 7.4.20.1‑3: Resource Specific Attributes of <serviceSubscribedNode> resource

|  |  |  |  |
| --- | --- | --- | --- |
| Attribute Name | Request Optionality  | Data Type | Default Value and Constraints |
| Create | Update |
| *nodeID* | M | NP | m2m:nodeID |  |
| *CSE-ID* | O | NP | m2m:ID |  |
| *deviceIdentifier* | O | NP | list of m2m:deviceID |  |
| *ruleLinks* | O | O | list of xs:anyURI |  |
| *niddRequired* | O | O | xs:boolean | No Default. If not configured, then IN-CSE default policy shall apply. |
| *niddConfigStatus* | NP | NP | m2m:niddConfigStatus |  |

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

### \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Start of Change 2 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

##### 6.3.4.2.92 m2m:niddConfigStatus

Used for the *niddConfigStatus* attribute of the <serviceSubscribedNode> resource.

Table 6.3.4.2.91‑1: Interpretation of m2m:niddConfigStatus

|  |  |  |
| --- | --- | --- |
| **Value** | Interpretation | Note |
| 1 | IN-PROCESS |  |
| 2 | SUCCESS |  |
| 3 | FAILED |  |
| 4 | DELETED |  |

### \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* End of Change 2 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

### \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Start of Change 3 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

##### 7.4.20.2.1 Create

***Originator:***

Addition to the generic procedures in clause 7.2.2.1.

* After successful creation of the <serviceSubscribedNode> resource, the Originator shall use a CREATE operation request to create a <node> resource. The request shall address the *<CSEBase>* of a Hosting CSE. The Originator shall set the *nodeID* attribute of this <*node*> resource to a value equal to *nodeID* attribute of the <serviceSubscribedNode> resource.
* The Originator shall use a CREATE operation request to create a [registration] resource. The request shall address the above-mentioned <node> resource. The Originator shall set the *M2M-Sub-ID* attribute of this [registration] resource to a value equal to the *M2M-Sub-ID* attribute of the *<m2mServiceSubscriptionProfile>* resource which is the parent of this <serviceSubscribedNode> resource.
* If the node which is represented by this <node> resource intends to use Security Association then the Originator shall use a CREATE operation request to create an [authenticationProfile] resource. The request shall address the above-mentioned <node> resource. The Originator shall set the *M2M-Sub-ID* attribute of the [authenticationProfile] resource to a value equal to the *M2M-Sub-ID* attribute of the *<m2mServiceSubscriptionProfile>* resource which is the parent of this <serviceSubscribedNode> resource.

***Receiver:***

Addition to the generic procedure in clause 7.2.2.2.

Recv-6.4 The following steps are in addition to the procedures defined in clause 7.3.3.3:

* If the *ruleLinks* attribute is present in the resource representation, but the CSE-ID attribute is not present in the resource representation, then the request shall be rejected with a ***Response Status Code*** indicating "BAD\_REQUEST" error.
* If the *niddRequired* attribute is set to TRUE, refer clause 7.1.1.1 of TS-0026.

### \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* End of Change 3 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

### \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Start of Change 4 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

##### 7.4.20.2.3 Update

***Originator:***

No change from the generic procedures in clause 7.2.2.1.

***Receiver:***

Addition to the generic procedures in clause 7.2.2.2.

Recv-6.4: The following step is in addition to the procedures defined in clause 7.3.3.4

* If the *ruleLinks* attribute is present in the resource representation, but the CSE-ID attribute is not present in the original resource, then the request shall be rejected with a ***Response Status Code*** indicating "BAD\_REQUEST" error.
* If the *niddRequired* attribute is set to ‘FALSE’ in resource representation but *niddConfigStatus* attribute is set to ‘IN-PROCESS’ in the original resource, then the request shall be rejected with a ***Response Status Code*** indicating NIDD\_CONFIGURATION\_PROCESS\_INCOMPLETE error.
* If the *niddRequired* attribute is present in the resource representation and *niddConfigStatus* attribute is not set to ‘IN-PROCESS’ in the original resource, refer clause 7.1.1.1 of TS-0026.

### \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* End of Change 4 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

### \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Start of Change 5 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

##### 7.4.20.2.4 Delete

***Originator:***

Addition to the generic procedures in clause 7.2.2.1.

* After successful deletion of the <serviceSubscribedNode> resource, the Originator shall use a DELETE operation request to delete its associated <node> resource. The request shall address the *<node>* resource that has a *nodeID* value matching that of the *nodeId* from the deleted <*serviceSubscribedNode*> resource. The Originator can use a discovery request to find the resourceID of this <*node*> resource.

***Receiver:***

Addition to generic procedures in clause 7.2.2.2.

* If the *niddConfigStatus* attribute value is ‘IN-PROCESS’, then the request shall be rejected with a ***Response Status Code*** indicating " NIDD\_CONFIGURATION\_PROCESS\_INCOMPLETE " error.
* If the*niddConfigStatus* attribute value is‘SUCCESS’, refer to clause 7.1.1.1 of TS-0026.

### \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* End of Change 5 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

### \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Start of Change 6 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

#### 6.6.3.6 Receiver error response class

Table 6.6.3.6-1 specifies the RSCs for Receiver error responses.

51xx codes are oneM2M specific, which are used in generic procedures.

52xx codes are oneM2M specific, which are used in resource specific procedures.

Table 6.6.3.6‑1: RSCs for Receiver error response class

|  |  |
| --- | --- |
| Numeric Code | Description |
| 5000 | INTERNAL\_SERVER\_ERROR |
| 5001 | NOT\_IMPLEMENTED |
| 5103 | TARGET\_NOT\_REACHABLE |
| 5105 | RECEIVER\_HAS\_NO\_PRIVILEGE |
| 5106 | ALREADY\_EXISTS |
| 5107 | REMOTE\_ENTITY\_NOT\_REACHABLE |
| 5203 | TARGET\_NOT\_SUBSCRIBABLE |
| 5204 | SUBSCRIPTION\_VERIFICATION\_INITIATION\_FAILED |
| 5205 | SUBSCRIPTION\_HOST\_HAS\_NO\_PRIVILEGE |
| 5206 | NON\_BLOCKING\_SYNCH\_REQUEST\_NOT\_SUPPORTED |
| 5207 | NOT\_ACCEPTABLE |
| 5208 | DISCOVERY\_DENIED\_BY\_IPE |
| 5209 | GROUP\_MEMBERS\_NOT\_RESPONDED |
| 5210 | ESPRIM\_DECRYPTION\_ERROR |
| 5211 | ESPRIM\_ENCRYPTION\_ERROR |
| 5212 | SPARQL\_UPDATE\_ERROR |
| 5214 | TARGET\_HAS\_NO\_SESSION\_CAPABILITY |
| 5215 | SESSION\_IS\_ONLINE |
| 5216 | JOIN\_MULTICAST\_GROUP\_FAILED |
| 5217 | LEAVE\_MULTICAST\_GROUP\_FAILED |
| 5218 | TRIGGERING\_DISABLED\_FOR\_RECIPIENT |
| 5219 | UNABLE\_TO\_REPLACE\_REQUEST |
| 5220 | UNABLE\_TO\_RECALL\_REQUEST |
| 5221 | CROSS\_RESOURCE\_OPERATION\_FAILURE |
| 5222 | TRANSACTION\_PROCESSING\_IS\_INCOMPLETE |
| 5230 | ONTOLOGY\_MAPPING\_ALGORITHM\_FAILED |
| 5231 | ONTOLOGY\_CONVERSION\_FAILED |
| 5232 | REASONING\_PROCESSING\_FAILED |
| 5233 | NIDD\_CONFIGURATION\_PROCESS\_INCOMPLETE |

### \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* End of Change 6 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*