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| CHANGE REQUEST |
| Meeting ID:\* |  SDS #57 |
| Source:\* | Poornima Shandilya, C-DOT, poornima@cdot.inPrateek Varshney, C-DOT, prateekv@cdot.in  |
| Date:\* | 2022-11-24 |
| Reason for Change/s:\* | See the introduction |
| CR against: Release\* | Release 4 |
| CR against: WI\* | [ ]  Active WI-xxxx[x]  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-0004 4\_12\_0 |
| Clauses \* | 7.3.3.3, 7.3.3.4 |
| 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) |  |
| 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 proposes additional handling of *expirationTime* attribute in check validity of resource representation to impose service subscription expiration restrictions.

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

#### 7.3.3.3 Check validity of resource representation for CREATE

If the Hosting CSE node type is MN/ASN and the CREATE request contains a resource whose type is only applicable to an IN-CSE e.g. <triggerRequest> or <m2mServiceSubscriptionProfile> then the Hosting CSE shall reject the request and return an error response with a ***Response Status Code*** indicating "OPERATION NOT ALLOWED". For a list of resource types that are only applicable to an IN-CSE see Table 6.3.4.2.1‑1.

If the request is a valid CREATE 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 a ***Response Status Code*** indicating "NOT IMPLEMENTED".

If the CREATE request has a Resource Type that is not listed in the child resource tables, defined in clause 7.4 corresponding to the addressed resource, then the request shall be rejected with a ***Response Status Code*** indicating "INVALID\_CHILD\_RESOURCE\_TYPE" error.

If no resource representation is present in the CREATE request, then the request is rejected with a ***Response Status Code*** indicating "BAD\_REQUEST" error.

If the resource representation in ***Content*** parameter is not compatible with the ***Resource Type*** parameter in a CREATE request, the request shall be rejected with a ***Response Status Code*** indicating "BAD\_REQUEST" error.

If the *expirationTime* attribute is present in the resource representation, but its value indicates a time in the past, then the request shall be rejected with a ***Response Status Code*** indicating "BAD\_REQUEST" error.

There are four cases where the Hosting CSE shall configure or override an expirationTime value that differs from the value specified in the resource representation (if present):

1. The Originator does not specify an *expirationTime.*
2. The Originator requests an expiration time that is later than the *expirationTime* of the parent.
3. The Hosting CSE determines that the expiration time requested by the Originator does not meet its requirements (e.g. based on a local policy).
4. The Originator specifies *expirationTime* which cannot be supported by Hosting CSE due to service restrictions i.e. if it is later than service subscription *expirationTime*.

In each of these cases, the Hosting CSE shall configure an expirationTime into the resource that is less than or equal to the expirationTime of the parent resource. In addition, the Hosting CSE shall communicate the modified value back to the originator in the response if the Result Content parameter permits this.

If the *creator* attribute is present in the resource representation and supported by the type of resource to be created its value shall be NULL. If the originator provides a value for the *creator* attribute but resource type does not support the *creator* attribute, then the Hosting CSE shall reject the request with a ***Response Status Code*** indicating "BAD\_REQUEST" error. If the originator provides a value for the *creator* attribute within the request, the Hosting CSE shall reject the request with a ***Response Status Code*** indicating "BAD\_REQUEST" error.

The resource descriptions in clause 7.4 include tables that specify the attributes of each resource and the optionality of the attribute in a CREATE or UPDATE request, see clause 7.4.1.1. A request containing an attribute not listed in the table shall be rejected with a "BAD\_REQUEST" error.

The handling below shall apply to each attribute in the resource for CREATE request primitives and the handling depends on the "presence in CREATE request" column of the resource table. If the request is rejected based on the rules below, then the other attributes do not have to be checked.

**M attribute for create request**

If the attribute is present in the resource representation in the CREATE request, the Hosting CSE shall check if the value is acceptable according to internal policies.

If the provided value is not accepted, the Hosting CSE shall reject the request with a ***Response Status Code*** indicating "BAD\_REQUEST" error.

If the attribute is not present in the resource representation in the CREATE request the Hosting CSE shall reject the request with a ***Response Status Code*** indicating "BAD\_REQUEST" error.

**O attribute for create request**

If the attribute is present in the resource representation in the CREATE request, the Hosting CSE shall check if the value is acceptable according to internal policies.

If the provided value is not accepted then the Hosting CSE shall reject the request with a ***Response Status Code*** indicating "BAD\_REQUEST" error.

**NP attribute for create request**

If the attribute is present in the resource representation in the CREATE request, the Hosting CSE shall reject the request with a ***Response Status Code*** indicating "BAD\_REQUEST" error.

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

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

#### 7.3.3.4 Check validity of resource representation for UPDATE

The handling below shall apply to each attribute in the resource for UPDATE request primitives and the handling depends on the "presence in UPDATE request" column of the resource table. If the request is rejected based on the rules below, then the other attributes do not have to be checked.

If the *expirationTime* attribute is present in the resource representation, but its value indicates a time in the past, then the request shall be rejected with a ***Response Status Code*** indicating "BAD\_REQUEST" error.

If the *expirationTime* attribute is present in the UPDATE request, and its value is earlier than the value of the *expirationTime* attribute that it is updating, then the Hosting CSE shall check if the targeted resource has any child resource whose *expirationTime* attribute value is later than the *expirationTime* value in the UPDATE request. If yes, the request shall be rejected with a ***Response Status Code*** indicating "BAD\_REQUEST" error.

If the *expirationTime* attribute is present in the resource representation and if the value provided by the Originator cannot be supported, due to either policy or if it is later than service subscription *expirationTime* then the Hosting CSE shall assign a new value.The resource descriptions in clause 7.4 include tables that specify the attributes of each resource and the optionality of the attribute in a CREATE or UPDATE request, see clause 7.4.1.1. A request containing an attribute not listed in the table shall be rejected with a "BAD\_REQUEST" error.

**O attribute for update request**

If the attribute is present in the resource representation in the UPDATE request, the Hosting CSE shall check if the value is acceptable according to internal policies.

If the provided value is not accepted, the Hosting CSE shall reject the request with a ***Response Status Code*** indicating "BAD\_REQUEST" error.

**NP attribute for update request**

If the attribute is present in the resource representation in the UPDATE request, the Hosting CSE shall reject the request with a ***Response Status Code*** indicating "BAD\_REQUEST" error.

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