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| CHANGE REQUEST |
| Meeting ID:\* | PRO 31 |
| Source:\* | Neeta Meshram, C-DOT, neeta@cdot.in Suman 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 \* | Section 7.4.39.2 |
| 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) |

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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

According to TS-0001, Section 10.2.4.25, whenever is a new <*timeSeriesInstance*> resource is getting created, Hosting CSE must check, if <*timeSeriesInstance*> resource is voilating any of policies of its parent <*timeSeries*> resource then the *<timeSeriesInstance>*  resource with the oldest *dataGenerationTime* attribute shall be removed to enable the creation of the new *<timeSeriesInstance>* resource.

| *<timeSereisInstance>* CREATE  |
| --- |
| Associated Reference Point | Mca, Mcc and Mcc'. |
| Information in Request message | All parameters defined in table 8.1.2-2 apply with the specific details for:***Content:*** The resource content shall provide the information as defined in clause 9.6.37. |
| Processing at Originator before sending Request | According to clause 10.1.2. |
| Processing at Receiver | According to clause 10.1.2.If the newly created *<timeSeriesInstance>*  resource violates any of the policies defined in the parent *<timeSeries>* resource (i.e. *maxInstanceAge,maxNrOfInstances* or *maxByteSize*), then the *<timeSeriesInstance>*  resource with the oldest *dataGenerationTime* attribute shall be removed to enable the creation of the new *<timeSeriesInstance>* resource.The Create Request of the other entities except the *creator*, shall be rejected. |
| Information in Response message | All parameters defined in table 8.1.3-1 apply with the specific details for:***Content:*** Address of the created *<timeSeriesInstance>* resource, according to clause 10.1.2. |
| Processing at Originator after receiving Response | According to clause 10.1.2. |
| Exceptions | According to clause 10.1.2. |
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While TS-0004, Section 7.4.39.2.1 create procedure of <timeSeriesInstance> resource, states on voilation of these policies " NOT\_ACCEPTABLE" error is returned.

***Receiver:***

Primitive specific operation on Recv-6.5 "Create/Update/Retrieve/Delete/Notify operation is performed":

1. *currentNrOfInstances* and *currentByteSize* of direct parent <timeSeries> resource shall be updated. If *currentNrOfInstances* and/or *currentByteSize* exceeds *maxNrOfInstances* and/or *maxByteSize* of direct parent < timeSeries> resource respectively, the Hosting CSE shall return the response primitive with a ***Response Status Code*** indicating " NOT\_ACCEPTABLE" error.
2. If the *sequenceNr* exceeds *maxNrOfInstances* of direct parent < timeSeries> resource, the Hosting CSE shall return the response primitive with a ***Response Status Code*** indicating " NOT\_ACCEPTABLE" error.

No other changes from the generic procedures in clause Error: Reference source not found.

This CR propose to change create procedure of <timeSeriesInstance> resource.

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

#### 7.4.39.2 <timeSeriesInstance> resource specific procedure on CRUD operations

##### 7.4.39.2.0 Introduction

This clause describes <timeSeriesInstance> resource specific behaviour for CRUD operations.

##### 7.4.39.2.1 Create

* + - * 1. ***Originator****:*
1. No change from the generic procedures in clause 7.2.2.1 with the following exception:
2. The Originator shall maintain an internal counter to generate *sequenceNr* which is increased by one. When the *sequenceNr* reaches to the *maxNrOfInstances* of the direct parent <timeSeries> resource, it shall be set to one.
3. ***Receiver****:*

Primitive specific operation on Recv-6.5 "Create/Update/Retrieve/Delete/Notify operation is performed":

1. The Hosting CSE shall check whether the size in bytes of the *content* attribute of the <timeSeries*Instance*> resource is greater than *maxByteSize* of the targeted parent <*timeSeries*> resource.
	1. If true, the Hosting CSE shall return the response primitive with a ***Response Status Code*** indicating “NOT\_ACCEPTABLE” error. Skip steps 2 and 3 below.
	2. If false, the Hosting CSE shall set the *contentSize* attribute of the <timeSeries*Instance*> resource to the size in bytes of the *content* attribute.
2. The Hosting CSE shall check the *currentNrOfInstances* and *currentByteSize* of the targeted parent <*timeSeries*> resource.
	1. If *maxNrOfInstances* of the targeted parent <*timeSeries*> resource is specified then if the *currentNrOfInstances* when modified to reflect the addition of the new *<timeSeriesInstance>* exceeds *maxNrOfInstances*, the Hosting CSE shall remove the *<timeSeriesInstance>* with oldest *dataGenerationTime* attribute from the targeted *<timeSeries>* resource.
	2. If *maxByteSize* of the targeted parent <*timeSeries*> resource is specified then if the *currentByteSize* when modified to reflect the addition of the new *<timeSeriesInstance>* exceeds *maxByteSize,* the Hosting CSE shall remove the *<timeSeriesInstance>* with the oldest dataGenerationTime attribute from the targeted *<timeSeries>* resource until *maxByteSize* conditions are met.
	3. The Hosting CSE shall update the *currentNrOfInstances* of the targeted parent <*timeSeries*> resource with the count of <timeSeriesInstance> resources in the targeted parent <*timeSeries*> resource. The Hosting CSE shall update the *currentByteSize* of the targeted parent <*timeSeries*> resource with the sum of the *contentSize* attributes of the <timeSeries*Instance*> resources in the targeted parent <*timeSeries*> resource.
	4. When removing oldest <timeSeriesInstance> resources, the Hosting CSE shall not generate notifications even if there exists a <subscription> to the targeted <timeSeries> resource and this <subscription> is configured to generate a notification on “Delete\_of\_Direct\_Child\_Resource”.
3. If *maxInstanceAge* attribute is present in targeted parent <*timeSeries*> resource, then the Hosting CSE shall update the *expirationTime* attribute in <*timeSeriesInstance*> resource such that time difference between *expirationTime* and *creationTime* of <*timeSeriesInstance*> resource shall not exceed *maxInstanceAge* of targeted parent <timeSeries> resource.
4. The Hosting CSE shall increment the *stateTag* attribute of the targeted parent <*timeSeries*> resource and copy the value into the *stateTag* attribute of the <*timeSeriesInstance*> resource.

No other changes from the generic procedures in clause 7.2.2.2.

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

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.?