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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 2 |
| CR against: WI\* | [ ]  Active <Work Item number> [x]  MNT maintenance / < Work Item number(optional)>Is this a mirror CR? Yes [x]  No [ ] mirror CR number: PRO-2017-0210R01[ ]  STE Small Technical Enhancements / < Work Item number (optional)>Only ONE of the above shall be ticked |
| CR against: TS/TR\* | TS-0004 V2\_12\_0 |
| Clauses \* | Section 7.4.7.2 |
| 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, Table 9.6.6-2 an attribute of <container> resource *maxInstanceAge* is defined as "Maximum age of a direct child *<contentInstance>* resource in the *<container> resource*. The value is expressed in seconds". This definition indicates that a *<contentInstance>* should be deleted whenever it reaches to the age which is greater than  *maxInstanceAge* of its parent <container> resource. Presently, there is no handling for checking voilation of this policy.

So, This CR proposes to add this handling in create procedure of <contentInstance> resource.

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

#### 7.4.7.2 <contentInstance> resource specific procedure on CRUD operations

##### Create

***Originator****:*

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

***Receiver****:*

Primitive specific operation on Recv-6.5 "Create/Update/Retrieve/Delete/Notify operation is performed" with the following additional operations.

1. The Hosting CSE shall check whether the size in bytes of the *content* attribute of the <*contentInstance*> resource is greater than *maxByteSize* of the targeted parent <*container*> 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 <*contentInstance*> resource to the size in bytes of the *content* attribute.
2. The Hosting CSE shall check the *currentNrOfInstances* and *currentByteSize* of the targeted parent <*container*> resource.
	1. If *maxNrOfInstances* of the targeted parent <*container*> resource is specified then if the *currentNrOfInstances* when modified to reflect the addition of the new *<contentInstance>* exceeds *maxNrOfInstances*, the Hosting CSE shall remove the oldest *<contentInstance>* resource from the targeted *<container>* resource.
	2. If *maxByteSize* of the targeted parent <*container*> resource is specified then if the *currentByteSize* when modified to reflect the addition of the new *<contentInstance>* exceeds *maxByteSize* the Hosting CSE shall remove the oldest *<contentInstance>* resources from the targeted *<container>* resource until *maxByteSize* conditions are met.
	3. The Hosting CSE shall update the *currentNrOfInstances* of the targeted parent <*container*> resource with the count of <contentInstance> resources in the targeted parent <*container*> resource. The Hosting CSE shall update the *currentByteSize* of the targeted parent <*container*> resource with the sum of the *contentSize* attributes of the <contentInstance> resources in the targeted parent <*container*> resource.
	4. When removing oldest *<contentInstance>* resources, the Hosting CSE shall not generate notifications even if there exists a <*subscription*> to the targeted <*container*> resource and this <*subscription*> is configured to generate a notification on “Delete\_of\_Direct\_Child\_Resource”.
	5. If *maxInstanceAge* attribute is present in targeted parent <*container*> resource, then an expiration timer shall be started by Hosting CSE based on *maxInstanceAge.* At timer expiration related <contentInstance> resource shall be deleted.
3. The Hosting CSE shall increment the *stateTag* attribute of the targeted parent <*container*> resource and copy the value into the *stateTag* attribute of the <*contentInstance*> resource.

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

### -----------------------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.?