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| CHANGE REQUEST |
| Meeting:\* | ARC#26.4 |
| Source:\* | C-DOT  |
| Date:\* | 2017-01-24 |
| Contact:\* | Poornima (poornima@cdot.in), Siddarth (strikha@cdot.in), Rakesh (rakesh@cdot.in)  |
| Reason for Change/s:\* | See the introduction  |
| CR against: Release\* | Release 3 |
| CR against: WI\* | [ ]  Active <Work Item number> [ ]  MNT maintenace / < Work Item number(optional)>[x]  STE Small Technical Enhancements / < Work Item number (optional)>Only ONE of the above shall be ticked |
| CR against: TS/TR\* | TS-0001 v3\_2\_0 |
| Clauses/Sub Clauses\* | 9.6.13 |
| Type of change: \* | [ ]  Editorial change[ ]  Bug Fix or Correction[ ]  Change to existing feature or functionality[x]  New feature or functionalityOnly ONE of the above shall be ticked |
| 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 [x]  NO [ ] This CR is a mirror CR? YES [ ]  if YES, please indicate the document number of the original CR: : NO [x]   |
| Template Version:27 May 2015 (Dot 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 separated “mirror CR” should be posted at the same time of this CR

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 sections need not show surrounding clauses as long as the proposed section number clearly shows where the new section 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

The CR proposes a new parameter in eventNotificationCriteria to filter the subscriptions for a resource type.

For example: In <container> resource, various type of child resources can be created e.g. subscription, container, contentInstance, etc. If an Originator has taken subscription for “creation of direct child resources” then it will get notification for creation of direct child resource for all the possible child resource types i.e. for creation of <container>, <subscription>, <contentInstance>. But if Originator just wants to get notified for creation of <contentInstance> then there is no criteria to opt subscription for a given type of resource type.

This CR adds a new condition in eventNotificationCriteria condition of <subscription> resource to give option to Originator to get notification on creation of direct child resource for only those types which it has opted.

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

Table 9.6.8-3: *eventNotificationCriteria* conditions

| Condition tag | Multiplicity | Matching condition |
| --- | --- | --- |
| *createdBefore* | 0..1 | The *creationTime* attribute of the resource is chronologically before the specified value. |
| *createdAfter* | 0..1 | The *creationTime* attribute of the resource is chronologically after the specified value. |
| *modifiedSince* | 0..1 | The *lastModifiedTime* attribute of the resource is chronologically after the specified value. |
| *unmodifiedSince* | 0..1 | The *lastModifiedTime* attribute of the resource is chronologically before the specified value. |
| *stateTagSmaller* | 0..1 | The *stateTag* attribute of the resource is smaller than the specified value. |
| *stateTagBigger* | 0..1 | The *stateTag* attribute of the resource is bigger than the specified value. |
| *expireBefore* | 0..1 | The *expirationTime* attribute of the resource is chronologically before the specified value. |
| *expireAfter* | 0..1 | The *expirationTime* attribute of the resource is chronologically after the specified value. |
| *sizeAbove* | 0..1 | The *contentSize* attribute of the *<contentInstance>* resource is equal to or greater than the specified value. |
| *sizeBelow* | 0..1 | The *contentSize* attribute of the *<contentInstance>* resource is smaller than the specified value. |
| *eventType* | 0..n | The type of event. Possible event type values are: 1. Update to attributes of the subscribed-to resource
2. Deletion of the subscribed-to resource ,
3. Creation of a direct child of the subscribed-to resource ,
4. Deletion of a direct child of the subscribed-to resource
5. An attempt to retrieve a <contentInstance> direct-child-resource of a subscribed-to <container> resource is performed while this <contentInstance> child resource is an obsolete resource or the reference used for retrieving this resource is not assigned.This retrieval is performed by a RETRIEVE request targeting the subscribed-to resource with the *Result Content* parameter set to either "child-resources" or "attributes+child-resources".

The other conditions in *eventNotificationCriteria conditions apply to the selected eventType.*For example, if eventType is "Creation of a direct child of the subscribed-to resource" then other *eventNotificationCriteria* conditions is applied to the direct child resources of the subscribed-to resource.If this condition is not specified, the default value is "Update to attributes of the subscribed-to resource".The notion of "obsolete resource" is defined in clause 9.6.1.3.2 (Common attributes). |
| *operationMonitor* | 0..n | The operations and/or the Originators accessing the subscribed-to resource matches with the specified value. It allows monitoring which operation and/or which Originator is attempting to the access subscribed-to resource regardless of whether the operation is performed. This feature is useful to detect AEs that send requests to a subscribed-to resource and that result in a successful or failure response. Possible arguments are operation(s) (e.g: create, retrieve, update, delete, notify) and/or Originator identifier(s). |
| *attribute* | 0..n | A list of attribute names of a subscribed-to-resource. This list is only applicable when *eventType* has a value of "Update to attributes of the subscribed-to resource".If this list is present, then it is used to specify a subset of a subscribed-to-resource's attributes for which updates shall result in a notification. If ANY attribute specified on this list is updated, then a notification shall be generated. If an attribute that is not specified in this list is updated, then a notification shall not be generated. If this list is not presented, then the default attribute list is the full set of a subscribed-to-resource's attributes. If ANY attribute of a subscribed-to-resouce is updated, then a notification shall be generated. |
| *resourceType* | 0..n | A list of resource types. This list is only applicable when *eventType* has a value of "Creation of a direct child of the subscribed-to resource ".If this list is present, then it is used to specify a subset of resource type for direct child resource of which creation shall result in a notification. If ANY resource type specified on this list is created, then a notification shall be generated. If a resource type that is not specified in this list is created, then a notification shall not be generated. If this list is not present, then the default resource type list is the full set of a direct child resource.  |
| *missingData* | 0..1 | The *missingData* includes two values: a minimum specified missing number of the Time Series Data within the specified window duration, and the window duration. The condition only applies to subscribed-to resources of type *<timeSeries>*.The first detected missing data point starts the timer associated with the window duration. The window duration is restarted upon its expiry until such time as the entire subscription is terminated or not refreshed. More details about NOTIFICATIONS related to data reporting is found in section 10.2.39 |
| *filterOperation* | 0..1 | Indicates the logical operation (AND/OR) to be used for different condition tags. The default value is logical AND. |

### -----------------------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 only include a proposal to change only 3 tables. Includes any changes to references, definitions, and acronyms in the same deliverable?
* 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 sections need not show surrounding clauses as long as the proposed section number clearly shows where the new section 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.?