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| CHANGE REQUEST |
| Meeting ID:\* | SDS 48 |
| Source:\* | Miguel Angel Reina Ortega, ETSI, MiguelAngel.ReinaOrtega@etsi.org  |
| Date:\* | 2020-12-02 |
| Reason for Change/s:\* | notificationEventType for timeSeries |
| CR against: Release\* | Rel-3  |
| CR against: WI\* | [x]  Active < WI-0077> [ ]  MNT maintenance / < Work Item number(optional)>Is this a mirror CR? Yes [ ]  No [x] mirror CR number: [ ]  STE Small Technical Enhancements / < Work Item number (optional)>Only ONE of the above shall be ticked |
| CR against: TS/TR\* | TS-0004 v3.18.0 |
| Clauses \* | 6.3.4.2.19, 6.3.5.7, 7.5.1.2.9 |
| 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 |
| Other TS/TR(s) impacted | None |
| 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 2019 (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 a new notificationEventType which will be used for timeSeries. This will allow:

* Configure properly the subscription to the timeSeries to get notifications on the number of missingDataPoints
* Notifications generated from timeSeries procedure to be clearly distinguished

## ----------------------- Start of Change 1--------------------------------------------

6.3.4.2.19 m2m:notificationEventType

Used for ***eventNotificationCriteria*** conditions and in the *notificationEvent*element.

**Table 6.3.4.2.19‑1: Interpretation of notificationEventType**

|  |  |  |
| --- | --- | --- |
| **Value** | **Interpretation** | **Note** |
| 1 | Update\_of\_Resource | Default |
| 2 | Delete\_of\_Resource |  |
| 3 | Create\_of\_Direct\_Child\_Resource |  |
| 4 | Delete\_of\_Direct\_Child\_Resource |  |
| 5 | Retrieve\_of\_Container\_Resource\_With\_No\_Child\_Resource | Context: A RETRIEVE request targets a subscribed-to <container> resource with the Result Content parameter set to either "child-resources" or "attributes+child-resources".A notification is initiated if the <contentInstance> child resource is obsolete or not present in the targeted parent resource. |
| 6 | Trigger\_Received\_For\_AE\_Resource | Context: A notification is initiated when a Trigger is Received by a Registrar CSE targeting the AE-ID associated with the <*AE*> resource of a Registree AE. |
| 7 | Blocking\_Update |  |
| 8 | Report on generated missing data points | Context: A notification is initiated when a number of missing data points in a given duration are generated according to missingData attribute in <*subscription*> resource |

-------------------------------------------------- End of Change 1---------------------------------------

## ----------------------- Start of Change 2 --------------------------------------------

6.3.5.7 m2m:eventNotificationCriteria

Used for the *eventNotificationCriteria* attribute of the <subscription> resource.

**Table 6.3.5.7‑1: Type Definition of m2m:eventNotificationCriteria**

|  |  |  |  |
| --- | --- | --- | --- |
| **Element Path** | **Element Data Type**  | **Multiplicity** | **Note** |
| createdBefore | m2m:timestamp | 0..1 |  |
| createdAfter | m2m:timestamp | 0..1 |  |
| modifiedSince | m2m:timestamp | 0..1 |  |
| unmodifiedSince | m2m:timestamp | 0..1 |  |
| stateTagSmaller | xs:positiveInteger | 0..1 |  |
| stateTagBigger | xs:nonNegativeInteger | 0..1 |  |
| expireBefore | m2m:timestamp | 0..1 |  |
| expireAfter | m2m:timestamp | 0..1 |  |
| sizeAbove | xs:nonNegativeInteger | 0..1 |  |
| sizeBelow | xs:positiveInteger | 0..1 |  |
| operationMonitor | m2m:operationMonitor | 0..n |  |
| attribute | m2m:attributeList | 0..1 |  |
| notificationEventType | m2m:notificationEventType | 0..7 |  |
| childResourceType | list of m2m:resourceType | 0..1 |  |
| missingData | m2m:missingData | 0..1 |  |
| filterOperation | m2m:filterOperation | 0..1 |  |

-------------------------------------------------- End of Change 2---------------------------------------

## ----------------------- Start of Change 3 --------------------------------------------

7.5.1.2.9 Notification for missing Time Series Data

***Originator(Hosting CSE):***

No change from the procedures in clause 7.2.2.1 except the following addition in Step1.0:

See details in oneM2M TS-0001 [6], clause 10.2.4.29.

No change for the remaining steps from the procedures in clause 7.5.1.2.2.

-------------------------------------------------- End of Change 3---------------------------------------

## ----------------------- Start of Change 4 --------------------------------------------

<xs:complexType name="notification">

 <xs:sequence>

 <xs:element name="notificationEvent" minOccurs="0">

 <xs:complexType >

 <xs:sequence>

 <xs:element name="representation" type="m2m:representation" minOccurs="0"/>

 <xs:element name="operationMonitor" minOccurs="0">

 <xs:complexType>

 <xs:sequence>

 <xs:element name="operation" type="m2m:operation" minOccurs="0"/>

 <xs:element name="originator" type="m2m:ID" minOccurs="0"/>

 </xs:sequence>

 </xs:complexType>

 </xs:element>

 <xs:element name="notificationEventType" type="m2m:notificationEventType" minOccurs="1"/>

 </xs:sequence>

 </xs:complexType>

 </xs:element>

-------------------------------------------------- End of Change 4---------------------------------------