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| CHANGE REQUEST |
| Meeting ID:\* | SDS 42 |
| Source:\* | Neeta Meshram (neeta@cdot.in), Poornima Trivedi (poornima@cdot.in) , Suman Sheoran(ssheoran@cdot.in) , Anupama Chopra(anupama@cdot.in) C-DOT |
| Date:\* | 2019-09-23 |
| Reason for Change/s:\* |  See the Introduction |
| CR against: Release | Release-3 |
| CR against: WI\* | [ ]  Active [ ]  MNT maintenanceIs this a mirror CR? Yes [ ]  No [x] mirror CR number: (Note to Rapporteur - use latest agreed revision)[ ]  STE Small Technical Enhancements Only ONE of the above shall be ticked |
| CR against: TS/TR\* | TS-0004-Service\_Layer\_Core\_Protocol-V2\_25 |
| Clauses \* | Table 7.4.38.1‑0 |
| 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 |
| Other TS/TR(s) impacted |  |
| Post Freeze checking:\* | This CR contains only essential changes and corrections? YES [ ]  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.

If this is a correction, and the change applies to previous releases, a separate “mirror CR” should be posted at the same time as 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. Include any changes to references, definitions, and abbreviations in the same deliverable.

Follow the drafting rules.

All pictures must be editable.

Check spelling and grammar.

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 proposed new clause is 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 the 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

As per TS-0001, section 9.5.0 Write once is defined as

Write Once (WO): the value of the attribute is set when the resource is Created based on information from the Originator (i.e. ***Content*** parameter). Such an attribute is allowed for Retrieve operation after the creation.

Such attribute can thereafter only be updated by hosting CSE internally.

It is clearly mentioned that WO attribute shall be updated by only Hosting CSE internally that means WO attribute shall never be updated by sending request from originator. So, there is no point allowing such attributes for Update operation.They shall be rejected during the validation of attributes provided by originator in update request.

This CR proposes to change Update optionality in update request of following WO attributes as NP.

Table 9.6.36-2: Attributes of <*timeSeries*> resource

| Attributes of *<timeSeries>* | Multiplicity | RW/RO/WO | Description | *<timeSeriesAnnc>* Attributes |
| --- | --- | --- | --- | --- |
| *resourceType* | 1 | RO | See clause 9.6.1.3. | NA |
| *resourceID* | 1 | RO | See clause 9.6.1.3. | NA |
| *resourceName* | 1 | WO | See clause 9.6.1.3. | NA |
| *parentID* | 1 | RO | See clause 9.6.1.3. | NA |
| *expirationTime* | 1 | RW | See clause 9.6.1.3  | MA |
| *accessControlPolicyIDs* | 0..1 (L) | RW | See clause 9.6.1.3.  | MA |
| *labels* | 0..1 (L) | RW | See clause 9.6.1.3. | MA |
| *creationTime* | 1 | RO | See clause 9.6.1.3. | NA |
| *lastModifiedTime* | 1 | RO | See clause 9.6.1.3. | NA |
| *announceTo* | 0..1 (L) | RW | See clause 9.6.1.3. | NA |
| *announcedAttribute* | 0..1 (L) | RW | See clause 9.6.1.3. | NA |
| *dynamicAuthorizationConsultationIDs* | 0..1 (L) | RW | See clause 9.6.1.3. | OA |
| *creator* | 0..1 | RO |  See clause 9.6.1.3. | NA |
| *maxNrOfInstances* | 0..1 | RW | Maximum number of direct child *<timeSeriesInstance>* resources in the <*timeSeries*> resource. | OA |
| *maxByteSize* | 0..1 | RW | Maximum size in bytes of data that is allocated for the *<timeSeries>* resource for all direct child*<timeSeriesInstance>* resources. | OA |
| *maxInstanceAge* | 0..1 | RW | Maximum age of a direct child *<timeSeriesInstance>* resource in the <*timeSeries*> *resource*. The value is expressed in seconds. | OA |
| *currentNrOfInstances* | 1 | RO |  Current number of direct child *<timeSeriesInstance>* resource in the <*timeSeries*> resource. It is limited by the *maxNrOfInstances*. The *currentNrOfInstances* attribute of the <timeSeries> resource shall be updated on successful creation or deletion of direct child < *timeSeriesInstance* > resource of <timeSeries > resource. | OA |
| *currentByteSize* | 1 | RO | Current size in bytes of data stored in all direct child *<timeSeriesInstance>* resources of a <*timeSeries*> resource. It is limited by the *maxByteSize*. The *currentByteSize* attribute of the <timeSeries> resource shall be updated on successful creation or deletion of direct child < *timeSeriesInstance* > resource of <timeSeries > resource. | OA |
| *periodicInterval* | 0..1 | WO | If the Time Series Data is periodic, this attribute shall contain the expected amount of time between two instances of Time Series Data. | OA |
| *periodicIntervalDelta* | 0..1 | WO | If the Time Series Data is periodic, this attribute contains a +/- delta value relative to *periodicInterval* for the purpose of detecting missing data.The value of this attribute shall be less than or equal to (*periodicInterval/2*).If the attribute is omitted the hosting CSE can use a local policy to determine a default value. | OA |
| *missingDataDetect* | 0..1 | WO | Indicates whether the Receiver shall detect the missing Time Series Data if it is periodic. | NA |
| *ontologyRef* | 0..1 | RW | A reference (URI) of the ontology used to represent the information that is stored in the child *<timeSeriesInstance>* resources of the present *<timeSeriesData>* resource (see note). | OA |
| *missingDataMaxNr* | 0..1 | RW | Maximum number of entries in the *missingDataList* if the *periodicInterval* is set and the *missingDataDetect* is TRUE. | OA |
| *missingDataList* | 0..1(L) | RO | The list of the *dataGenerationTime* valuerepresenting the missing Time Series Data in descending order by time if the *periodicInterva*l is set and the *missingDataDetect* is TRUE. | OA |
| *missingDataCurrentNr* | 0..1 | RO | Current number of the missing Time Series Data in the *missingDataList*. | OA |
| *missingDataDetectTimer* | 0..1 | RW | The *missingDataDetectTimer* is a duration after which a <*timeSeriesInstance*> shall be considered missing by the hosting CSE. If *periodicIntervalDelta* is present, the value of this attribute shall be greater than *periodicIntervalDelta.* | OA |
| *contentInfo* | 0..1 | WO | This attribute contains information to understand the contents of the *content* attribute of <timeSeriesInstance>. It shall be composed of two mandatory components consisting of an Internet Media Type (as defined in the IETF RFC 6838 [i.Error: Reference source not found]) and an encoding type. In addition, an optional content security component may also be included. The format of this attribute is defined in oneM2M TS‑0004 [Error: Reference source not found].This attribute should be used to represent the content information of the *content* attribute of child <*timeSeriesInstance*> resources so that AEs can understand the content. | OA |
| NOTE: The access to this URI is out of scope of oneM2M. |

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

Table 7.4.38.1‑0: Resource Specific Attributes of <timeSeries> resource

|  |  |  |  |
| --- | --- | --- | --- |
| Attribute Name | Request Optionality  | Data Type | Default Value and Constraints |
| Create | Update |  |  |
| *maxNrOfInstances* | O | O | xs:nonNegativeInteger | No default |
| *maxByteSize* | O | O | xs:nonNegativeInteger | No default |
| *maxInstanceAge* | O | O | xs:nonNegativeInteger | No default |
| *currentNrOfInstances* | NP | NP | xs:nonNegativeInteger | No default(This is generated by the Hosting CSE and limited by the *maxNrOfInstances*) |
| *currentByteSize* | NP | NP | xs:nonNegativeInteger | No default(This is generated by the Hosting CSE and limited by the *maxByteSize*) |
| *periodicInterval* | O | NP | xs:positiveInteger  | No default (This is in units of milliseconds) |
| *missingDataDetect* | O | NP | xs:boolean | No default |
| *missingDataMaxNr* | O | O | xs:positiveInteger | No default |
| *missingDataList* | NP | NP | m2m:missingDataList | No default |
| *missingDataCurrentNr* | NP | NP | xs:nonNegativeInteger | No default(This is generated by the Hosting CSE and limited by the *missingDataMaxNr*) |
| *missingDataDetectTimer* | O | O | xs:positiveInteger  | No default(This is in units of milliseconds) |
| *ontologyRef* | O | O | xs:anyURI | No default |
| *contentInfo* | O | NP | m2m:contentInfo | No default |

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