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| CHANGE REQUEST | |
| Meeting ID:\* | SDS #52 |
| Source:\* | Andreas Kraft, DT, [A.Kraft@telekom.de](mailto:A.Kraft@telekom.de)  Alena Khodiakova, DT, [Alena.Khodiakova@t-systems.com](mailto:Alena.Khodiakova@t-systems.com)  Andre Dias Dutra, DT, [Andre.Dias-Dutra@telekom.de](mailto:Andre.Dias-Dutra@telekom.de)  Andreas Neubacher, DT, [Andreas.Neubacher@magenta.at](mailto:Andreas.Neubacher@magenta.at)  Miguel Angel Reina Ortega, ETSI, [MiguelAngel.ReinaOrtega@etsi.org](mailto:MiguelAngel.ReinaOrtega@etsi.org) |
|  | 2021-11-17 |
| Reason for Change/s:\* | Clarification for UPDATE of pendingNotification attribute (R3) |
| CR against: Release\* | Release 3 |
| CR against: WI\* | Active WI-xxxx  MNT maintenance / < Work Item number(optional)>  Is this a mirror CR? Yes  No  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, 3.23.0 |
| Clauses \* | 7.4.8.2.3 |
| Type of change: \* | Editorial change  Bug Fix or Correction  Change to existing feature or functionality  New feature or functionality  Only ONE of the above shall be ticked |
| Impacted other TS/TR(s) |  |
| 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 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

This CR proposes a clarification for the UPDATE procedure of the <subscription> resource type’s *pendingNotification* attribute.

It is not clear what the CSE shall do with currently cached pending notifications in case the *pendingNotification* attribute is currently set to the value of “sendAllPending” and it is altered in either one of the following ways:

The attribute is updated to the value of “sendLatest”, or

The attribute is updated with a “null” value and thereby removed from a resource.

The following Change 1 proposes a change to the resource type’s update procedure that specifies to remove all but the latest cached notifications in the first case, and to remove all cached notifications in the second case.

This is a mirror CR for SDS-2021-0152R01 for R3.

### \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Start of Change 1 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

##### 7.4.8.2.3 Update

***Originator:***

The following change from the generic procedures in clause 7.2.2.1.

Orig-1.0: The originator shall not specify *notificationEventType* set to "Blocking\_Update".  
  
If the Originator specifies a *missingData* condition with a duration value greater than the *periodicInterval* attribute of the <timeSeries> resource no notification on missing data points will be generated.

***Receiver:***

The following are additional Hosting CSE procedures to the generic resource handling procedures in clause 7.2.2.2.

Recv-6.4: The following steps are in addition to the procedures defined in clause 7.3.3.4:

1. Check if the *notificationEventType* in the request is set to "Blocking\_Update". If so, the request shall be rejected with a ***Response Status Code*** indicating a "BAD\_REQUEST" error.
2. Check if the notificationEventType is set to “Report on missing data points”. If the *missingData* attribute is not set in the target resource or provided in the request, the request shall be rejected with a ***Response Status Code*** indicating a "BAD\_REQUEST" error***.***
3. Check if the *missingData* element of eventNotificationCriteria is provided.

* If the subscribed-to resource (i.e. the resource given by the ***To*** parameter in the Request) is not a <timeSeries>, the request shall be rejected with a ***Response Status Code*** indicating a "BAD\_REQUEST" error.

1. If the Originator provides a value of *childResourceType* which is not a valid child of thesubscribed-to resource, the request shall be rejected with a ***Response Status Code*** indicating a “BAD\_REQUEST” error.
2. If the Originator provides *missingData*, check that the subscribed-to resource is of type <timeSeries>. If not, the request shall be rejected with a ***Response Status Code*** indicating a "BAD\_REQUEST" error*.*
3. If the UPDATE operation would result in both *operationMonitor* and *notificationEventType* being present in the resource, the request shall be rejected with a ***Response Status Code*** indicating a “BAD\_REQUEST” error***.***
4. Check if a new *associatedCrossResourceSub* is provided. If so, check that the Hosting CSE ID value in the *associatedCrossResourceSub* is the same as the ***From*** parameter of the request.
5. If the *notificationContentType* is invalid for a given operation (refer to oneM2M TS-0001 [6] Table 9.6.8-4: Default and allowed values of *notificationContentType*) the request shall be rejected with a ***Response Status Code*** indicating a “BAD\_REQUEST” error***.***

Recv-6.5. The following step is in addition to the procedures defined in clause 7.3.3.7:

1. If a <crossResourceSubscription> Hosting CSE ID is removed from *associatedCrossResourceSub*, the Hosting CSE shall send a Notify request for Subscription Deletion, using the procedures in clause 7.5.1.2.4, to the <crossResourceSubscription> Hosting CSE*.*
2. Check if the *pendingNotification* attribute is removed in the request or set from "sendAllPending" to "sendLatest". If the *pendingNotification* attribute is removed, then all cached pending Notify request primitives for the subscription resource shall be removed. If the *pendingNotification* attribute is set from "sendAllPending" to "sendLatest", then all cached pending Notify request primitives except the latest notification for the subscription resource shall be removed.

### \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* End of Change 1 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*