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| CHANGE REQUEST |
| Meeting ID:\* |  SDS #54 |
| Source:\* | Andreas Kraft, DT, A.Kraft@telekom.de Alena Khodiakova, DT, Alena.Khodiakova@t-systems.comAndre Dias Dutra, DT, Andre.Dias-Dutra@telekom.de Andreas Neubacher, DT, Andreas.Neubacher@magenta.at  |
| Date:\* | 2022-05-19 |
| Reason for Change/s:\* | Add pending notification handling to <subscription> DELETE procedure |
| CR against: Release\* | Release 4 |
| CR against: WI\* | [ ]  Active WI-xxxx[x]  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, V4.9.0 |
| Clauses \* | 7.4.8.2.4 |
| 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) |  |
| 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 [x]  |
| 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 an improvement on clause 7.4.8.2.4 (Delete procedure for the <subscription> resource type).

When pending notifications are enabled for a <subscrition> resource (ie. the *pendingNotification* attribute is present and set to any of the valid values) the CSE is supposed to store Notify primitives for targets that cannot be reached until they are finally delivered or dropped.

In clause 7.4.8.2.3 (Update procedure for the <subscription> resource type) step 4 in the receiver’s Recv-6.5 step states:

1. Check if the *pendingNotification* attribute is being removed by the request or is being changed from "sendAllPending" to "sendLatest**". If the *pendingNotification* attribute is being removed, then all cached pending Notify request primitives for the subscription resource shall be removed.** If the *pendingNotification* attribute is being changed from "sendAllPending" to "sendLatest", then all cached pending Notify request primitives except the latest notification for the subscription resource shall be removed.

The sentence marked specifies that all pending notifications are removed when the pending notification feature is disabled for a <subscription> resource. However, no equivalent step is given for the Delete procedure, which means that it is unclear whether the CSE shall stop or continue to handle the pending notifications for a <subscription> resource after it has been deleted. The marked sentence in the step 4) above indicates that the intended behaviour is to immediately stop handling and to remove the pending Notify requests.

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

##### 7.4.8.2.4 Delete

***Originator:***

No change from the generic procedures in clause 7.2.2.1.

***Receiver:***

The following are changes to the receiver procedures described in clause 7.2.2.2.

Recv-6.5.

1) The Hosting CSE shall send a Notify request for Subscription Deletion using the procedures in clause 7.5.1.2.4 to all <crossResourceSubscription> hosting CSEs indicated in *associatedCrossResourceSub.*

2) The Hosting CSE shall remove all cached pending Notify request primitives for the subscription.

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