**3GPP TSG-SA4 Meeting # 120 *S4-221051***

**Online 17.Aug. - 26.Aug. 2022**

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| *CR-Form-v12.2* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **26.502** | **CR** | **<CR#>** | **rev** | **<Rev#>** | **Current version:** | **17.1.1** |  |
|  | | | | | | | | |
| *For* [***HE******LP***](http://www.3gpp.org/3G_Specs/CRs.htm#_blank)*on using this form: comprehensive instructions can be found at* [*http://www.3gpp.org/Change-Requests*](http://www.3gpp.org/Change-Requests)*.* | | | | | | | | |
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| ***Proposed change affects:*** | UICC apps |  | ME |  | Radio Access Network |  | Core Network |  |

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|  | | | | | | | | | | |
| ***Title:*** | [5MBUSA] Correction of missing procedures and events | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Ericsson LM, BBC | | | | | | | | | |
| ***Source to TSG:*** | S4 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | 5MBUSA | | | | |  | ***Date:*** | | | 11.8.2022 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **F** |  | | | | | ***Release:*** | | | Rel-17 |
|  | *Use one of the following categories:* ***F*** *(correction)* ***A*** *(mirror corresponding to a change in an earlier release)* ***B*** *(addition of feature),* ***C*** *(functional modification of feature)* ***D*** *(editorial modification)*  Detailed explanations of the above categories can be found in 3GPP [TR 21.900](http://www.3gpp.org/ftp/Specs/html-info/21900.htm). | | | | | | | | *Use one of the following releases: Rel-8 (Release 8) Rel-9 (Release 9) Rel-10 (Release 10) Rel-11 (Release 11) … Rel-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | The notification related procedures from the MBSF to the AF are missing. There is | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | A clear description on the derivation of the input parameters is provided. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Not possible to define stage 3 for the Nmbsf API. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 4.6.2, 7.2.3.7, 7.3.2.7. | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | |  | **x** | Other core specifications | | | | TS/TR ... CR ... | | |
| ***affected:*** | |  | **x** | Test specifications | | | | TS/TR ... CR ... | | |
| ***(show related CRs)*** | |  | **x** | O&M Specifications | | | | TS/TR ... CR ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

\*\*\*\* First Change \*\*\*\*

### 4.6.2 Notification events

During the lifecycle of a MBS User Service Session, a number of notification messages may be sent by different Network Functions. The MBSF may modify event information when passing on notifications from other Network Functions to the MBS Application Provider (AF/AS) at reference point Nmb10 or (via the NEF) at reference point Nmb5.

The relevant stimulating reference point is indicated in brackets in the final column of table 4.6.2-1 and 4.6.2-2.

The events may originate from different sources:

- if the event originates in the MBSTF at reference point Nmb2 it is propagated to the MBS Application Provider (AF/AS) at reference point Nmb10 (or via the NEF at reference point Nmb5). The MBSF conditions the event payload for external usage.

- if the event originates in the MB-SMF at reference point Nmb1 or with the PCF at reference point Nmb12 it is propagated to the MBS Application Provider (AF/AS) at reference point Nmb10 (or via the NEF at reference point Nmb5). The MBSF conditions the event payload for external usage.

- if the event originates in the MBSF itself it is propagated directly.

The notification events listed in table 4.6.2-1 below are used by the MBSF to notify the MBS Application Provider (AF/AS) or NEF.

Table 4.6.2-1: Notification events

|  |  |  |
| --- | --- | --- |
| Event | Description | Applicable reference point(s) |
| Distribution session established | The MBS Distribution Session is established. | Nmb10/Nmb5 |
| Distribution session service management failure | The MBS Distribution Session could not be started, for example because the necessary resources could not be allocated by the MBS System. | (Nmb1), Nmb10/Nmb5 |
| Distribution session policy control failure | The MBS Distribution Session could not be started because of a policy authorization/control failure or rejection | (Nmb12), Nmb10/Nmb5 |
| Distribution session activated | The MBS Distribution Session activated successfully. | (Nmb2), Nmb10/Nmb5 |
| Distribution session deactivated | The MBS Distribution Session deactivated. | (Nmb2), Nmb10/Nmb5 |
| Distribution session data ingest failure | The MBSTF is expecting data (MBS Session is active) for the MBS Distribution session, but not receiving data. | (Nmb2), Nmb10/Nmb5 |

\*\*\*\* Next Change \*\*\*\*

#### 7.2.3.7 Nmbsf\_MBSUserDataIngestSession\_StatusNotify operation

**Service operation name:** Nmbsf\_MBSUserDataIngestSession\_StatusNotify

**Description:** Used by the MBSF to notify the MBS Application Provider (AF/AS) or NEF about the status change of the MBS User Data Ingest Session.

**Input parameters (Required):** MBS User Data Ingest Session Identifier, Event ID(s) as described in table 4.6.2-1 and table 4.6.2‑2, informative message.

**Output parameters:** Result indication.

\*\*\*\* Next Change \*\*\*\*

#### 7.3.2.7 Nmbstf\_MBSDistributionSession\_StatusNotify operation

**Service operation name:** Nmbstf\_MBSDistributionSession\_StatusNotify

**Description:** Used by the MBSTF to notify the MBSF about the status change of the MBS Distribution Session.

**Input parameters (Required):** MBS Distribution Session Identifier, Event ID(s) as described in table 4.6.2-2, informative message.

**Output parameters:** Result indication.

\*\*\*\* Last Change \*\*\*\*