**3GPP TSG SA WG4#116e S4-211588**

**E-meeting, 10th – 19th November 2021**

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| *CR-Form-v12.0* |
| **Pseudo CHANGE REQUEST** |
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|  | **26**.**502** | **CR** | draft | **rev** |  | **Current version:** | **0.1.0** |  |
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| *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 | **X** | Radio Access Network |  | Core Network | **X** |

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| ***Title:***  | **[5MBUSA] General MBS Procedures** |
|  |  |
| ***Source to WG:*** | Qualcomm Incorporated |
| ***Source to TSG:*** |  |
|  |  |
| ***Work item code:*** | 5MBUSA |  | ***Date:*** | 03/11/2021 |
|  |  |  |  |  |
| ***Category:*** | **B** |  | ***Release:*** | 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 canbe 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-12 (Release 12)**Rel-13 (Release 13)Rel-14 (Release 14)Rel-15 (Release 15)Rel-16 (Release 16)* |
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| ***Reason for change:*** |  |
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| ***Summary of change:*** |  |
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| ***Consequences if not approved:*** |  |
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| ***Clauses affected:*** |  |
|  |  |
|  | **Y** | **N** |  |  |
| ***Other specs*** |  |  |  Other core specifications  | TS/TR ... CR  |
| ***affected:*** |  |  |  Test specifications | TS/TR ... CR ...  |
| ***(show related CRs)*** |  |  |  O&M Specifications | TS/TR ... CR ...  |
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| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** |  |

**===== CHANGE =====**

## 3.1 Terms

**MBS Application Service Provisioning**: tbd

**MBS Distribution Session:** time, protocols and protocol state (i.e. parameters) which define sender and receiver configuration and which use an MBS Session for the delivery of an MBS User Data Ingest Session.

**MBS Application Service Control:**. tbd

**MBS Application Data Session:** tbd

**===== CHANGE =====**

## 4.4 Domain model

Editor’s Note: The static domain model for services and sessions.

### 4.4.1 User Services domain model

The domain model for MBS User Services addresses different service and session concepts that are established between the different functional entities of the MBS User Services architecture, as shown in figure 4.4.1‑1.



Figure 4.4-1: MBS User Services domain model

Editor’s Note: Add a UML static domain model showing how the different stage 2 service and session concepts above relate to each other, including their cardinalities.

### 4.4.2 User Service Announcement information

Editor’s Note: Add a table of stage 2 baseline parameters to be provisioned for each User Service at reference point Nmb10/Nmb5 and subsequently announced at reference point MBS‑5. Not all parameters are relevant at both Nmb10/Nmb5 (e.g. service time window) and MBS‑5 (reception parameters), so this table probably needs two extra columns to indicate different applicability to service provisioning and service announcement.

**===== CHANGE =====**

## 5.2 High-level baseline procedures

The high-level baseline procedures for MBS User Services are shown in figure 5.2-1.



NOTE: In the interests of brevity, the prefix MBS is omitted from the numbered steps in the figure.

Figure 5.2-1 MBS User Service high-level baseline procedures

The basic procedures are as follows:

1. The MBS Application Provider asks the MBSF via Nmb10 to provision an Application Service as an MBS User Service.

2. The MBSF provisions a Distribution Session in the MBSTF via Nmb2.

3., The MBSF creates a User Service Announcement that may be accessed by the MBS Client of interested UEs via MBS-5.

4. The MBS Application Provider informs the MBS-Aware Application via MBS-8 that the specific Application Service can be accessed via an MBS User Service by means of an Application Service Announcement.

 [Alternatively, the MBSF Client synthesises the Application Service Announcement from the User Service Announcement received in step 3 amd informs the MBS-Aware Application via MBS‑6 that the Application Service can be accessed via an MBS User Service.]

5. The MBS Application Provider creates an MBS User Data Ingest Session with the MBSTF and the latter ingests the user data via Nmb6.

6. The MBS-Aware Application requests the MBS Client to access a specific MBS User Service by invoking Procedures at MBS-6.

7. Optional: If it has not already been received in step 3 above, the MBSF Client may discover additional access information about this MBS User Service by querying the MBSF via MBS-5.

8. The MBSF Client provides the MBS Distribution Session information acquired as part of the User Service Announcement information to the MBSTF Client via MBS-6′.

9. The MBSTF Client activates reception of the MBS Distribution Session.

10. The MBSF Client continuously handles the MBS Distribution Session based on updates received via MBS-5.

11. The MBSTF Client receives MBS User Data via MBS-4‑MC as part of the MBS Distribution Session.

12. The MBSTF provides the MBS User Data to the MBS-Aware Application via MBS-7 in an MBS Application Data Session.

13. The MBS-Aware Application controls the MBS User Service by invoking MBS Application Service Control procedures on the MBSF Client via MBS-6.