**3GPP TSG SA4 WG4#116-e meeting s4-211398**

***revision of* S4aI211246**

**10th-19th November, 2021**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.1* | | | | | | | | |
| **DRAFT CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | 26.501 | **CR** |  | **rev** |  | **Current version:** | **16.8.0** |  |
|  | | | | | | | | |
| *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)*.* | | | | | | | | |
|  | | | | | | | | |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Proposed change affects:*** | UICC apps |  | ME | **X** | Radio Access Network |  | Core Network | **X** |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | |
| ***Title:*** | dCR on the application of 5MBUSA in 5GMS | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | TELUS | | | | | | | | | |
| ***Source to TSG:*** | S4 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | 5MBUSA | | | | |  | ***Date:*** | | | 2021-10-28 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | B |  | | | | | ***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-15 (Release 15) Rel-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | Adding the application of 5MBUSA in 5GMS architecture. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | This dCR adds the application of 5MBUSA in 5GMS architecture | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Miss the information for the application of 5MBUSA in 5GMS architecture | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 8 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

FIRST CHANGE

# 2 References

[15] 3GPP TS 26.502: "5G multicast-broadcast services; User Service architecture".

Next CHANGE

# Annex C (informative): Usage of MBS User Services

## C.1 General

A 5GMS Application Provider may utilize MBS User Services to deliver e.g. MPEG‑DASH segments. When delivering these segments to a MBS Client, the MBSTF uses the Object Delivery Method defined in clause 6.1 of TS 26.502 [15].

## C.2 Downlink Media Streaming using MBS User Services

Figure C.2-1 shows how the logical functions of the 5G Media Streaming architecture interact with the MBS System. It depicts a deployment of Downlink Media Streaming using MBS delivery. The 5GMSd Application Provider is an application entity incorporating content-specific media functionality (e.g. media creation, encoding and formatting) that uses the 5GMS System to distribute media to a 5GMSd-Aware Application.



Figure C.2-1: 5G downlink media streaming with the usage of MBS User Service

The 5GMSd AF provides Downlink Media Streaming provisioning to the 5GMSd Application Provider, and various control functions to the Media Session Handler in the 5GMS Client located in the UE. It may relay or initate a request for different policy and/or charging treatment by interacting with the PCF. 5GMSd AF also interacts with NEF for MBS related service exposure.

## C.3 Integrated Deployment Model

In Figure C.2-1, the 5GMSd AF and MBSF are depicted as fully separated logical functions. Alternatively, the MBSF could be integrated within the 5GMSd AF as shown in Figure C.3-1. In such a deployment, the embedded MBSF still uses reference point Nmb2 to configure and control the multicast delivery functionality of the MBSTF.



Figure C.3-1: 5G downlink media streaming with integrated MBS User Service

Annex D (informative):

END OF CHANGES