**3GPP TSG-S4 Meeting #122 *S4-230051***

**Athens, Greece, 20th–24th February 2023** revision of S4aI230039

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| --- |
| *CR-Form-v12.0* |
| **CHANGE REQUEST** |
|  |
|  | **26.502** | **CR** | **0014** | **rev** |  | **Current version:** | **17.3.0** |  |
|  |
| *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)*.* |
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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Proposed change affects:*** | UICC apps |  | ME | **X** | Radio Access Network |  | Core Network | **X** |

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|  |
| ***Title:***  |  |
|  |  |
| ***Source to WG:*** | BBC |
| ***Source to TSG:*** | S4 |
|  |  |
| ***Work item code:*** | 5MBUSA |  | ***Date:*** | 2023-02-10 |
|  |  |  |  |  |
| ***Category:*** | **F** |  | ***Release:*** | Rel-17 |
|  |  |
| ***Reason for change:*** | CT3 has identified some discrepancies in the domain model and procedures that previously escaped attention. |
|  |  |
| ***Summary of change:*** | * Remove unicast repair base URL from MBS Distribution Session entity in the MBSTF (since this function has no use for this information).
* Document alternative SA2-specified call flow for allocating TMGI.
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|  |  |
| ***Consequences if not approved:*** | * Parameters of Nmbstf service API are incorrect at Nmb2.
* One of the three SA2-defined TMGI allocation methods would remain out of scope for MBS User Services, which is not desirable.
 |
| ***Q*** |  |
| ***Clauses affected:*** | 4.2.4, 4.5.2, 4.5.6, 5.3. |
|  |  |
|  | **Y** | **N** |  |  |
| ***Other specs*** | **X** |  |  Other core specifications | TS 29.581 |
| ***affected:*** |  | **X** |  Test specifications |  |
| ***(show related CRs)*** |  | **X** |  O&M Specifications |  |
|  |  |
| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** |  |

FIRST CHANGE

### 4.2.4 User Service Announcement

The User Service Announcement provides service access information needed by the MBS Client to discover and activate the reception of one or more MBS User Services. User Service Announcements may be delivered via MBS Distribution Sessions using the Object Distribution Method (either in the same MBS Distribution Session as the advertised content, or else via a dedicated MBS Distribution Session provisioned and managed by the MBSF called the *MBS User Service Announcement Channel*) or via a regular unicast PDU Session.

The baseline information conveyed in User Service Announcements is defined in clause 4.5.7.

NEXT CHANGE

### 4.5.2 Static information model

(SNIPPED – NO TEXT CHANGES)

 

NOTE 1 Square brackets after a parameter name indicate multiplicity; parameter names rendered in italics with parentheses are optional. See the following clauses for details.

NOTE 2: Parameters and entities not exposed to the MBS Application Provider via the Nmbsf service at reference point Nmb10 are annotated with the dagger symbol †.

NOTE 3: MBS Session Identifier is defined by clause 6.5.1 of TS 23.247 [5] as a Temporary Mobile Group Identity (TMGI) or a Source-Specific Multicast (SSM) IP address.

Figure 4.5.2-1: MBS User Services static information model

NEXT CHANGE

### 4.5.6 MBS Distribution Session parameters

(SNIPPED)

Table 4.5.6‑2: Additional MBS Distribution Session parameters for Object Distribution Method

|  |  |  |  |
| --- | --- | --- | --- |
| Parameter | Cardinality | Assigner | Description |
| Object acquisition method | 1..1 | MBS Application Provider | Indicates whether the objects(s) are to be pushed into the MBSTF by the MBS Application Provider or whether they are to be pulled from the MBS Application Provider by the MBSTF as part of the corresponding MBS User Data Ingest Session.In the latter case, the *Object acquisition method* indicates whether the object(s) are to be retrieved once from the MBS Application Provider at the start of each active period of the corresponding MBS User Data Ingest Session, or whether the MBSTF is required to check their validity periodically, for example once per rotation of an object carousel. |
| Object acquisition identifiers | 1..\* |  | Identifies the object(s) to be ingested and distributed by the MBSTF during this MBS Distribution Session.This could be the ingest URL of the object, or the ingest URL of a manifest describing a set of objects, or a reference into a manifest describing a set of objects. |
| Object ingest base URL | 0..1 | MBS Application Provider or MBSF | A URL prefix substituted by the MBSTF with the *Object distribution base URL* prior to distribution of ingested objects.Assigned by the MBS Application Provider for the pull-based *Object acquisition method*. Assigned by the MBSF for push-based object acquisition.If omitted, nothing is removed from the content ingest URL when forming the object distribution URL |
| Object distribution base URL | 0..1 | MBS Application Provider | A URL prefix substituted by the MBSTF in place of the *Object ingest base URL* prior to distribution of ingested objects.If present, the optional *Object ingest base URL* shall also be present.If omitted, the object distribution URL is the same as the object ingest URL. |
| Object repair base URL | 0,,1 | MBSF | A URL prefix substituted by the MBSTF Client in place of the *Object distribution base URL* when repairing objects not received completely intact from this MBS Distribution Session (see NOTE). The value shall point to the MBS AS.Present only when object repair is provisioned for this MBS Distribution Session. |
| NOTE: Parameter not relevant to the MBSTF. |

(SNIPPED – NO FURTHER CHANGES IN THIS CLAUSE)

NEXT CHANGE

## 5.3 Procedures for User Service provisioning

(SNIPPED)



Figure 5.3‑2: Call flow for MBS User Service internal provisioning

For each such MBS Distribution Session:

6. If no MBS Session ID was nominated by the MBS Application Provider in step 1 above, or if the MBS Distribution Session is declared to be location-dependent (i.e. the *Location-dependent service* flag is set to true) the MBSF may allocate a TMGI for it at this point by invoking the Nmbsmf\_TMGI\_Allocate service operation on the MB‑SMF at reference point Nmb1, as specified in clause 9.1.2.2 of TS 23.247 [5].

7. The MBSF creates an MBS Session to reserve resources in the MBS System for the MBS Distribution Session by invoking the Nmbsmf\_MBSSession\_Create service operation on the MB‑SMF at reference point Nmb1, as specified in clause 9.1.3.6 of TS 23.247 [5]). The MBS Session ID provided for the MBS Distribution Session in step 1 or reserved in step 6 above is provided as an input parameter, if available; otherwise, the MB-SMF may allocate a TMGI as a side-effect of this operation, if needed. The MBSF determines the other input parameters as specified in clause 4.5.9.

(SNIPPED – NO FURTHER CHANGES IN THIS CLAUSE)

END OF CHANGES