**3GPP TSG-S4 Meeting #121S4-221396**

 **Toulouse, Fr, 14. Nov. - 18. Nov. 2022**

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| *CR-Form-v12.2* |
| **Draft CHANGE REQUEST** |
|  |
|  | **26.502** | **CR** | **0011** | **rev** | **-** | **Current version:** | **17.2.0** |  |
|  |
| *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:***  | [5MBUSA] Correction of interworking for Group Communication |
|  |  |
| ***Source to WG:*** | Ericsson |
| ***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 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-16 (Release 16)Rel-17 (Release 17)Rel-18 (Release 18)Rel-19 (Release 19)* |
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| ***Reason for change:*** | SA2 has clarified the in S2-2209281 one issue around group communication: “According to clause 5.2 and Annex C of TS 23.247, SA2 confirms that Group Communication traffic from legacy GCS AS, ingested by MBSTF at MB2-U can be distributed (**alternatively or simultaneously**) to the MB-UPF at reference point Nmb9 and the MBMS-GW at reference point SGi-mb.” |
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| ***Summary of change:*** | The Group Communication Annex is corrected. |
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| ***Consequences if not approved:*** | Inconsistent Specification |
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| ***Clauses affected:*** | Annex A.1 |
|  |  |
|  | **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 \*\*\*\*

# A.1 Group Communication

The Group Communication (GC) Service defined in TS 23.468 [14] defined for LTE/EPC. In order to allow the MBS System to interwork with GC Services, the MBSF also supports reference point MB2‑C and the MBSTF also supports reference point MB2‑U, as defined in clause 5.2 and annex C of TS 23.247 [5].



Figure A.1‑1: User Plane protocol stack for Group Communication services

The following MBS Distribution Session properties (see clause 4.5.6) are used by the MBSF at reference point Nmb2 to provision this setup in the MBSTF:

- Distribution method is set to Packet.

- Operating mode is set to Forward-only.

- Packet ingest method is set to Unicast.

- User plane traffic flow information is omitted because ingested multicast packets are not modified.

- The tunnel endpoint addresses of the MBMS-GW (SGi-mb) and/or MB-UPF (Nmb9).

- FEC configuration information is provided if AL‑FEC protection was requested by the GCS AS in the MBMS bearer allocation request at MB2-C.

- The MBSTF provides the MBSTF ingest endpoint addresses (representing the BM‑SC address and BM‑SC port) via the MBSF to the GCS AS at reference point MB2‑C so that the GCS AS can establish a UDP/IP tunnel with the MBSTF at MB2-U and start sending tunnelled IP packets.

- The MBSTF provides forward error protection according to the FEC configuration for downlink IP packets ingested from GCS AS, and then sends the source packets and any FEC packets to the MBMS GW at reference point SGi-mb.

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