**3GPP TSG-SA3 Meeting #107-e *draft\_S3-220859-r1***

**e-meeting, 16 – 20 May 2022 Revision of S3-22xxxx**

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **33.501** | **CR** | **1374** | **rev** | **-** | **Current version:** | **17.5.0** |  |
|  | | | | | | | | |
| *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 |  | Radio Access Network |  | Core Network | **x** |

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| ***Title:*** | Clarifications on the control-plane and user-plane procedures | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Huawei, HiSilicon | | | | | | | | | |
| ***Source to TSG:*** | S3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | 5MBS | | | | |  | ***Date:*** | | | 2022-04-17 |
|  |  | | | |  | |  | | |  |
| ***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-15 (Release 15) Rel-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18)* | |
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| ***Reason for change:*** | | The statements in the clause on the MBS security mechanisms require further clarification towards multicast and broadcast security. It’s proposed to clarify that:   1. For control-plane procedure, it relies on the UE join procedure for multicast. As a result, it’s only applicable for multicast session. 2. For user-plane procedure, it relies on the GBA or AKMA to estiblish the security tunnel between UE and MBSTF. Therefore, the user-plane procedure is applicable for both multicast sessions and broadcast sessions if AKMA or GBA procedure can be performed. | | | | | | | | |
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| ***Summary of change:*** | | To clarify the security mechanisms for multicast and broadcast service | | | | | | | | |
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| ***Consequences if not approved:*** | | Incomplete description of the security mechanisms for MBS | | | | | | | | |
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| ***Clauses affected:*** | | Annex W.4.1.1 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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:*** | |  | | | | | | | | |

\*\*\*\*\*\*\*\*\*\*\*\* START OF 1st CHANGE\*\*\*\*\*\*\*

# W.4 Security mechanisms for MBS traffic transmission

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### W.4.1.1 General

For security protection of MBS traffic, control-plane procedure and user-plane procedure are optionally supported in service layer. The control-plane procedure is only applicable for multicast sessions, while the user-plane procedure is applicable for both multicast sessions and broadcast sessions. The user plane security between UE and RAN shall be deactivated when 5GC shared MBS traffic delivery method for MBS data transmission is used to avoid redundant protection.

\*\*\*\*\*\*\*\*\*\*\*\* END OF 1st CHANGE\*\*\*\*\*\*\*\*