**3GPP TSG-SA5 Meeting #154 *S5-241656***

Changsha, China, 15 - 19 April 2024

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| *CR-Form-v12.0* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  | **32.279** | **CR** | **0002** | **rev** | **-** | **Current version:** | **18.0.0** |  |
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| *For* ***[HE](http://www.3gpp.org/3G_Specs/CRs.htm" \l "_blank)******[LP](http://www.3gpp.org/3G_Specs/CRs.htm" \l "_blank)*** *on using this form: comprehensive instructions can be found at  <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:*** | Add charging identifier definition for MBS session charging | | | | | | | | | |
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| ***Source to WG:*** | China Mobile Com. Corporation, Ericsson LM | | | | | | | | | |
| ***Source to TSG:*** | S5 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | 5MBS\_CH | | | | |  | ***Date:*** | | | 2024-04-16 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **F** |  | | | | | ***Release:*** | | | Rel-18 |
|  | *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-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:*** | | For PDU session charging, a Charging Identifier is used throughout the PDU session’s lifetime to allow correlation of charging information. As there’s no one-to-one mapping between PDU session and MBS session, the PDU session Charging Id is not applicable for MBS session charging.  According to clause 5.1.2 of TS 32.279, every MBS session shall be assigned a unique identity number for billing purposes per PLMN. Although we have MBS Session ID for MBS session, this ID may be provided by external AF as is defined in clause 7.1.1 of TS 32.247, which meas that the MBS Session ID may not be unique within each MB-SMF. Therefore, it is not suitable to use for billing purposes.  Moreover, according to clause 6.1.12 of TS 32.251, Charging ID is mandatory in MBMS-GW-CDR to identify the MBMS bearer context in different records for MBMS services.  Based on the above information, the MBS Session specific charging Id is required, which can be used for billing purposes and remain unique when 5MBS-eMBMS interworking charging is supported in subsequent release. | | | | | | | | |
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| ***Summary of change:*** | | Add charging identifier definition for MBS session charging. | | | | | | | | |
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| ***Consequences if not approved:*** | | The detailed definition of the MBS session charging id is missing. | | | | | | | | |
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| ***Clauses affected:*** | | 5.1.2,5.1.4 | | | | | | | | |
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|  | | **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:*** | |  | | | | | | | | |

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| **First change** |

### 5.1.2 Requirements

The following are high-level charging requirements specific to 5G MBS session charging:

- The MB-SMF shall support converged charging, if the 5G MBS charging is supported.

- The MB-SMF shall support MBS session charging, if the 5G MBS charging is supported.

- The MB-SMF may be capable of identifying data volumes or elapsed time for individual service data flows (flow based charging).

- Every MBS session shall be assigned a unique identity number for billing purposes per PLMN (i.e. the Charging Identifier).

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| **Second change** |

### 5.1.4 Charging Identifier

Charging identifier is created to allow correlation of charging information.

For the MB-SMF, the charging identifier is assigned per MBS session. At each MBS session creation, a new MBS session specific Charging Identifier is generated at the Charging Data Request [Initial] as is defined in clause 5.2.2.2.2. The Charging Identifier shall be unique within the MB-SMF (that means that the charging identifier is unique within the MB-SMF set if MB-SMF set is used) which assigned it and is then used in all subsequent messages for that MBS session. The Charging Identifier shall be used throughout the MBS session’s lifetime once assigned. In case of mobility procedures for MBS, the Charging Identifier is preserved while the MBS session ID is preserved.

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| **End of change** |