**3GPP TSG-SA5 Meeting #154 *S5-241749***

Changsha, China, 15 - 19 April 2024

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  | **32.279** | **CR** | **0007** | **rev** | **1** | **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:*** | Rel-18 CR 32.279 Correcting use of MBS session | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | 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-15 (Release 15) Rel-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18)* | |
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| ***Reason for change:*** | | The use of service data flows and flow based charging are unclear when all reporting and triggers are defined for MBS session. | | | | | | | | |
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| ***Summary of change:*** | | Changing service data flow and flow based charging to MBS session. | | | | | | | | |
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| ***Consequences if not approved:*** | | Inconsistent definition of MBS session charging may lead to interoperability issues. | | | | | | | | |
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| ***Clauses affected:*** | | 5.2.1.1, 5.2.1.3, 5.2.3.2.1, and 6.2.1.3 | | | | | | | | |
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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** |

#### 5.2.1.1 General

Converged charging may be performed by the MB-SMF interacting with CHF using Nchf specified in TS 32.290 [4] and TS 32.291 [5]. The MB-SMF shall be able to perform converged charging for each of the following:

- Charging data related to MBS session with individual and shared traffic delivery for Multicast;

- Charging data related to MBS session for Broadcast;

For charging related to service data flows within the PDU session for multicast service, see TS 32.255 [3].

The MB-SMF shall be able to report charging events to CDF for CDR generation.

The MB-SMF shall be able to perform convergent charging by interacting with CHF, for charging data related to MBS sessions. The Charging Data Request and Charging Data Response are exchanged between the MB-SMF and the CHF, based on SCUR scenarios specified in TS 32.290 [4]. The Charging Data Request is issued by the MB-SMF towards the CHF when certain conditions (chargeable events) are met.

The MB-SMF initiates a charging session with Charging Data Request/Response [Initial], updates the charging session with Charging Data Request/Response [Update], and terminates the charging session with Charging Data Request/Response [Termination].

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| **Second change** |

#### 5.2.1.3 MBS session charging

Converged charging allows the MB-SMF to collect charging information related to duration of MBS session or data volumes of MBS data packets received from AF or MBSTF per MBS session.

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| **Third change** |

##### 5.2.3.2.1 General

A MBS session charging CHF CDR is used to collect charging information related to the MBS session data information from a single data source (e.g. Application Service Provider).

A CHF CDR shall be opened when the CHF receives Charging Data Request[Initial].

As an alternative to the default CHF behaviour, the "Individual Partial record" mechanism can be used based on Operator's policy configured in the CHF. In this case a new CDR shall be opened for each Charging Data Request[Initial, Update, Termination], charging information shall be added and the CDR shall then be closed. The Sequence Number will be incremented for each Charging Data Request[Initial, Update, Termination] received by the CHF.

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| **Fourth change** |

#### 6.2.1.3 Definition of MBS container information

Used Unit Container, described in table 6.2.1.3-1, specific charging information used for 5G data connectivity charging is provided within the MBS Container Information described in table 6.2.1.3-1.

Table 6.2.1.3-1: Structure of MBS Container Information

| Information Element | Category | Description |
| --- | --- | --- |
| Time of First Usage | OC | This field holds the Timestamp when the first transmitted data packet of the MBS container. |
| Time of Last Usage | OC | This field holds the Timestamp when the last transmitted data packet of the MBS container. |
| QoS Information | OC | This field holds the QoS applied during the MBS container interval. |
| Established Connection Information | OC | This field holds a list of NG-RAN nodes establishing connection, or a list of UPFs establishing connection with MB-UPF. |

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| **End of changes** |