**3GPP TSG-SA5 Meeting #154 *S5-241838***

Changsha, China, 15 - 19 April 2024

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **32.279** | **CR** | **0006** | **rev** | **1** | **Current version:** | **18.0.0** |  |
|  | | | | | | | | |
| *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)*.* | | | | | | | | |
|  | | | | | | | | |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Proposed change affects:*** | UICC apps |  | ME |  | Radio Access Network |  | Core Network | **X** |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Title:*** | Rel-18 CR 32.279 Correction MB-SMF requirements | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Ericsson LM | | | | | | | | | |
| ***Source to TSG:*** | S5 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | 5MBS\_CH | | | | |  | ***Date:*** | | | 2024-04-18 |
|  |  | | | |  | |  | | |  |
| ***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)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | The requirements regarding units of measurements and usage of charging identifier are unclear, all reporting and triggers are defined for MBS session. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Adding that quota management can be for time, while downlink data volume can be reported per MBS session. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Inconsistent requirements compared to supported information elements may lead to interoperability issues. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 5.1.1, 5.1.2, and 5.1.3 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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:*** | | Revision of S5-241748 | | | | | | | | |

|  |
| --- |
| **First change** |

### 5.1.1 General

The charging functions specified for the 5G MBS session charging:

- MBS session in MB-SMF, refer to TS 23.247 [9].

|  |
| --- |
| **Second change** |

### 5.1.2 Requirements

The following are high-level charging requirements applicable if 5G MBS session charging is supported:

- The MB-SMF shall support converged charging.

- The MB-SMF shall support MBS session charging.

- The MB-SMF shall be capable of identifying duration (elapsed time) per MBS session.

- The MB-SMF may support quota management for duration.

- The MB-SMF may be capable of identifying transmitted volume per MBS session.

- The quota management shall be per rating group per MBS session.

- Every MBS session shall be assigned a unique identity number for billing purposes per PLMN.

|  |
| --- |
| **Third change** |

### 5.1.3 Charging information

The MB-SMF may collect following charging information.

- usage of the access and core network resources: the amount of multicast or broadcast data transmitted;

- usage duration: counted as the time interval from MBS session creation to MBS session deletion;

- service area: the charging information describes the area over which the MBS session data is distributed. MBS service area provided by AF (clause 6.2 of TS 23.247 [9]), or a list of gNBs and UPFs that have established tunnels with MB-UPFs (clause 6.9 of TS 23.247 [9]).

For the multicast communication, the MB-SMF may report above charging information to CHF for the following cases.

- MBS session creation and deletion;

- Establishment and release of shared delivery towards gNBs;

- Establishment and release of individual delivery towards UPFs.

For the broadcast communication, MB-SMF may report above charging information to CHF for the following cases.

- MBS session creation, establishment and deletion.



|  |
| --- |
| **End of changes** |