**3GPP TSG-SA5 Meeting #154 *S5-241858***

**Changsha, CHINA, 15 Apr - 19 Apr 2024**  Revision of S5-241630

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| *CR-Form-v12.1* |
| **CHANGE REQUEST** |
|  |
|  | **32.270** | **CR** | **0037** | **rev** | **1** | **Current version:** | **18.2.0** |  |
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| *For* [***HELP***](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:***  | Rel-18 CR 32.270 Clarification on MMS CHF CDR |
|  |  |
| ***Source to WG:*** | Huawei |
| ***Source to TSG:*** | S5 |
|  |  |
| ***Work item code:*** | MMS\_CH\_SBI |  | ***Date:*** | 2024-04-17 |
|  |  |  |  |  |
| ***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 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-15 (Release 15)Rel-16 (Release 16)Rel-17 (Release 17)Rel-18 (Release 18)* |
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| ***Reason for change:*** | MMS CHF CDR data is missing in MMS charging. The MMS node is connected directly to the BD via the Bm interface. The MMS converged charging architecture specified in the figure 4.4.1 uses the Bsm interface, which should be corrected.  |
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| ***Summary of change:*** | Add the Ga message contents and CHF CDRChange the Bsm to Bm in the figure 4.4.1 |
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| ***Consequences if not approved:*** | MMS charging is incomplete. |
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| ***Clauses affected:*** | 4.4, 6.1.X(New),6.1.Y(New) |
|  |  |
|  | **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 ... |
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| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** |  |

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| **First change** |

## 4.4 MMS converged charging architecture

The architectural options for MMS converged charging are depicted in figure 4.4.1 in service-based representation for CHF:



Figure 4.4.1: MMS converged charging architecture

Architectural options of figure 4.4.1 apply to any MMS converged charging architecture of this clause. The MMS Node correspond to MMS relay/server as defined in TS 23.140 [201].

The general architecture components can be found in TS 32.240 [1].

Bm in clause 5.2.5 of this document, and Nchf is described in TS 32.290 [2].

Figure 4.4.2 depicts the MMS converged charging architecture for non-roaming in reference point representation:



Figure 4.4.2: MMS converged charging architecture non-roaming reference point representation

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| **Next change** |

### 6.1.X Ga message contents

See clause 5.4.4.

### 6.1.Y CDR description on the Bm interface

#### 6.1.Y.1 General

This clause describes the CDR content and format generated for MMS converged charging.

The following tables provide a brief description of each CDR parameter. The category in the tables is used according to the charging data configuration defined in clause 5.4 of TS 32.240 [1]. Full definitions of the CDR parameters, sorted by the name in alphabetical order, are provided in TS 32.298 [51].

#### 6.1.Y.2 MMS CHF CDR data

If enabled, CHF CDRs for MMS charging shall be produced for each MM transaction.

The fields of MMS CHF CDR are specified in table 6.1.Y.2.1.

Table 6.1.Y.2.1: MMS CHF record data

| Field | Category | Description |
| --- | --- | --- |
| Record Type  | M | CHF record. |
| Recording Network Function ID | OM | This field holds the name of the recording entity, i.e. the CHF id. |
| Subscriber Identifier | OM | This field holds the Subscription Permanent Identifier (SUPI) of the served party.The detail of SUPI is specified in clause 5.9.2 of TS 23.501 [200] |
| NF Consumer Information | M | This field holds the information of the MMS Node that used the charging service. |
| List of Multiple Unit Usage  | OM | Described in TS 32.298 [3] |
| Record Opening Time | M | Described in TS 32.298 [3] |
| Duration | M | Described in TS 32.298 [3] |
| Record Sequence Number | C | Described in TS 32.298 [3] |
| Cause for Record Closing  | M | Described in TS 32.298 [3] |
| Diagnostics | OM | Described in TS 32.298 [3] |
| Local Record Sequence Number | OM | Described in TS 32.298 [3] |
| Record Extensions | OC | Described in TS 32.298 [3] |
| MMS Charging Information | OM | This field holds the MMS charging information defined in clause 6.4.2. |

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| **End of change** |