**3GPP TSG-SA5 Meeting #145-e *S5-225724***

**Online, , Jun15 Aug 2022 – 24 Aug 2022**

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| *CR-Form-v12.1* |
| **CHANGE REQUEST** |
|  |
|  | **32.240** | **CR** |  **-0446** | **rev** | **1** | **Current version:** | **17.6.0** |  |
|  |
| *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 32.240 Adding New Consumer for MMS in Charging Architecture |
|  |  |
| ***Source to WG:*** | Amdocs |
| ***Source to TSG:*** | S5 |
|  |  |
| ***Work item code:*** | MMS\_CH\_SBI |  | ***Date:*** |  |
|  |  |  |  |  |
| ***Category:*** | **B** |  | ***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:*** | Adding a new consumer for MMS in Charging Architecture. |
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| ***Summary of change:*** | Add a new consumer and interface name to support converged charging for MMS |
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| ***Consequences if not approved:*** | MMS charging cannot be supported by converged charging. |
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| ***Clauses affected:*** | 4.2.3, 4.4.3 |
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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** |

## 4.2.3 Common architecture – service based interface

Figure 4.2.3.1 provides an overview of the logical ubiquitous charging architecture and the information flows for converged offline and online charging in service based interface variant for 5G systems and Edge Computing enabling sub-systems.



Figure 4.2.3.1: Logical ubiquitous charging architecture and information flows for 5G systems and Edge Computing enabling sub-systems – service based interface

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| **Second change** |

## 4.4.3 Charging services Reference Point

The common charging architectures are mapped into the specific domain/subsystem/service charging architectures in the respective middle tier TSs, which contain in their reference point representation, the following reference points:

**N28:** Reference point between PCF and CHF defined in TS 23.501[215]**.**

**N40:** Reference point between SMF and the CHF in the same PLMN defined in clause 4.2 of TS 32.255 [15].

**N41:** Reference point between AMF and CHF in HPLMN defined in clause 4.2.2 of TS 32.256 [16].

**N42:** Reference point between AMF and CHF in VPLMN defined in clause 4.2.2 of TS 32.256 [16].

**N44:** Reference point between NEF and CHF defined in clause 4.4 of TS 32.254 [14].

**N45:** Reference point between IMS Node and CHF defined in clause 4.4 of TS 32.260 [20].

**N46:** Reference point between SMS Node and CHF defined in clause 4.4 of TS 32.274 [34].

N47: Reference point between SMF and the CHF in different PLMNs defined in clause x.y of TS 32.255 [15].

**N48**: Reference point between MMS Node and CHF defined in clause 4.4 of TS 32.270 [30]

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| **End of changes** |