**3GPP TSG-SA5 Meeting #135e *S5-211178***

**electronic meeting, online, 25 January - 3 February 2021**

|  |
| --- |
| *CR-Form-v12.0* |
| **CHANGE REQUEST** |
|  |
|  | **32.240** | **CR** | **0417** | **rev** | **-** | **Current version:** | **17.0.0** |  |
|  |
| *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:***  | Correct the charging architecture |
|  |  |
| ***Source to WG:*** | Huawei |
| ***Source to TSG:*** | S5 |
|  |  |
| ***Work item code:*** | TEI16 |  | ***Date:*** | 2021-01-15 |
|  |  |  |  |  |
| ***Category:*** | **A** |  | ***Release:*** | R17 |
|  | *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)* |
|  |  |
| ***Reason for change:*** | In the release 16, services charging are specified and IMS charging is discussed. The corresponding entity should be added in the charging architecture for converged charging. |
|  |  |
| ***Summary of change:*** |  Add the Service element and sub-system in the charging architecture. |
|  |  |
| ***Consequences if not approved:*** | The charging architecture is not applicable for 5G charging.  |
|  |  |
| ***Clauses affected:*** | 4.3.3.0 |
|  |  |
|  | **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:*** |  |

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

#### 4.3.3.0 General

Figure 4.3.3.0.1 provides an overview of converged charging architecture. The figure 4.3.3.0.1 depicts the logical charging functions in the network and interface between these functions and to the BD.

This charging architecture is used for 5G system.



**CTF:** **C**harging **T**rigger **F**unction

**CHF:** **CH**arging **F**unction

**ABMF**: **A**ccount **B**alance **M**anagement **F**unction

**RF:** **R**ating **F**unction

**CGF:** **C**harging **G**ateway **F**unction

**BD:** **B**illing **D**omain. This may also be a billing system/ billing mediation device.

Figure 4.3.3.0.1: Logical ubiquitous converged charging architecture

|  |
| --- |
| **End of change** |