**3GPP TSG-SA5 Meeting #158 *S5-246989***

Orlando, USA, 18 - 22 November 2024

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| *CR-Form-v12.3* |
| **CHANGE REQUEST** |
|  |
|  | **32.240** | **CR** | **0507** | **rev** | **1** | **Current version:** | **18.8.0** |  |
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| *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)*.* |
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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 Clarify the converged charging refund mechanism for IEC |
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| ***Source to WG:*** | Huawei |
| ***Source to TSG:*** | SA5 |
|  |  |
| ***Work item code:*** | TEI18 |  | ***Date:*** | 2024-11-22 |
|  |  |  |  |  |
| ***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-17 (Release 17)Rel-18 (Release 18)Rel-19 (Release 19) Rel-20 (Release 20)* |
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| ***Reason for change:*** | In 4G online charging, the refund mechanism is supported for IEC, as specified in clause 5.2.2. However, the 5G converged charging does not provide the refund mechanism. Therefore, the charging data transfer mechanism specified in clause 5.2.3 for converged charging cannot directly refer to clause 5.2.1 and 5.2.2. |
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| ***Summary of change:*** | Clarify the difference for converged charging in terms of refund mechanism. |
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| ***Consequences if not approved:*** | The charging data transfer mechanism for converged charging is incorrect.  |
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| ***Clauses affected:*** | 5.2.3 |
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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 ...  |
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| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** | Revision of S5-246606. |

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| **First change** |

### 5.2.3 Charging data transfer in converged charging

In converged charging, charging events mirroring the resource usage request of the user are transferred from the CTF or CEF to the CHF via the Nchf service-based interface.

- The CTF determines whether to use Event based charging (IEC and PEC) or Session based charging (SCUR and ECUR).

- The CEF determines the type of Event based charging (IEC and PEC) to use.

The charging data transfer for the converged charging is the converged operation of the online and offline charging specified in the clause 5.2.1 and 5.2.2, with the following difference:

- For IEC scenario, CHF will deduct the amount from the subscriber account even the service delivery is failed.

Details on the protocol application for the Nchf interface, including the message types and the domain / subsystem /service content of the messages, can be found in TS 32.290 [57] and TS 32.291 [58].

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| **End of change** |