**3GPP TSG-SA5 Meeting #155 *S5-242857rev1***

**Jeju, South Korea, 27 - 31 May 2024**

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  |  | **CR** |  | **rev** | **1** | **Current version:** |  |  |
|  | | | | | | | | |
| *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 TS 32.256 Introduce scenario UE registration converged Charging influenced by NS charging | | | | | | | | | |
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| ***Source to WG:*** | MATRIXX Software | | | | | | | | | |
| ***Source to TSG:*** | S5 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | NETSLICE\_CH\_Ph2 | | | | |  | ***Date:*** | | | 2024-05-13 |
|  |  | | | |  | |  | | |  |
| ***Category:*** |  |  | | | | | ***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)* | |
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| ***Reason for change:*** | | Solutions concluded in clause 6.6.7 of TR 32.847 i.e. #6.1 (MnS solution), #6.2 (NWDAF solution), #6.3 and #6.4 (NSACF solutions) for Key Issue #6 related to UE registration converged Charging influenced by Network slice converged charging are missing. | | | | | | | | |
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| ***Summary of change:*** | | Introduce message flows of solutions #6.1, #6.2, #6.3 & #6.4 for UE registration converged Charging influenced by Network slice converged charging, with no detailed description on charging information exchange between the C-CHF and the B-CHF. | | | | | | | | |
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| ***Consequences if not approved:*** | | UE registration converged Charging influenced by Network slice converged charging not supported. | | | | | | | | |
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| ***Clauses affected:*** | | 5.2.2.x (New) | | | | | | | | |
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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:*** | | The clause 4.X referenced here is the one introduced by CR#0036 | | | | | | | | |
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| ***This CR's revision history:*** | |  | | | | | | | | |

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| **First change** |

#### 5.2.2.x UE registration charging based on Business converged charging

##### 5.2.2.x.1 General

The clause below describes UE registration converged charging influenced by business converged charging based the C-CHF and B-CHF architecture defined in clause 4.X

The flows are applicable for Network slice converged charging based on UE registration where the B-CHF handles the Tenant the Network Slice is assigned to.

##### 5.2.2.x.2 Registration - ECUR

The following figure 5.2.2.x.2-1 describes a UE registration converged charging influenced by business converged charging:



Figure 5.2.2.x.2-1: UE registration converged charging influenced by business charging

0ch. Business charging information obtained by B-CHF (e.g. from NWDAF, MnS Producer, NSACF, etc) which could be e.g:

- S-NSSAI service profile: e.g. "Max nb of PDU sessions", "Max nb of UEs”, "Duration of the slice"…

1 to 16ch-a. UE registration for individual UE – ECUR per Figure 5.2.2.2.4.1.

16ch-aa. UE PDU session charging needs input from business charging

16ch-ab. C-CHF sends a request to B-CHF, and receives charging information from B-CHF.

When Business charging is Network slice charging, the step 16ch-ab occurs for each S-NSSAI of the "Allowed NSSAI" received in step 16ch-a.

The messages exchange between C-CHF and B-CHF for this scenario is not specified in this release of the specification.

16ch-ac. Account, Rating and reservation control for individual UE based on "business charging information" received from B-CHF(s).

16ch-c. C-CHF provides appropriate Charging Data Response [Initial] for the individual UE.

17 to 24. UE registration charging for individual UE per Figure 5.2.2.2.4.1.

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| **End of change** |