**3GPP TSG-SA5 Meeting #158 *S5-246982***

**Orlando, United States, 18th Nov 2024 - 22nd Nov 2024**

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| *CR-Form-v12.3* |
| **CHANGE REQUEST** |
|  |
|  | **32.255** | **CR** | **0562** | **rev** | **2** | **Current version:** | **18.5.0** |  |
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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 32.255 CHF Selection for Inter-CHF in Non-Roaming |
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| ***Source to WG:*** |  Amdocs |
| ***Source to TSG:*** | SA5 |
|  |  |
| ***Work item code:*** | TEI18 |  | ***Date:*** | 2024-11-07 |
|  |  |  |  |  |
| ***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:*** | CHF Selection for Inter-CHF is missing for non-Roaming scenario |
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| ***Summary of change:*** | Add CHF Selection criteria for Inter-CHF communication for non-roaming |
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| ***Consequences if not approved:*** | The inter-CHF charging specifications would be incomplete |
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| ***Clauses affected:*** | 5.1.8, 5.1.9.2 |
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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:*** |  |
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| ***This CR's revision history:*** | Revision of S5-246520Revision of S5-245568 |

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| **First Change** |

### 5.1.8 CHF selection

The CHF selection by the SMF is done at the PDU session establishment, this selection shall be based on the following and with this priority order (highest to lowest):

- CHF address(es) with possible associated CHF instance ID(s) and/or CHF set ID(s) provided by the PCF for the PDU session.

- UDM provided charging characteristics.

- NRF based discovery.

- SMF locally provisioned charging characteristics.

This means that if there are PCF provided CHF address(es) with possible associated CHF instance ID(s) and/or CHF set ID(s) these shall be used, otherwise if the UDM provides charging characteristics these shall be used. If neither of these results in CHF address(es) the NRF can be used to discover CHF instance(s) possibly within a CHF set, and as a last resource the SMF locally provisioned charging characteristics shall be used.

When NRF is used for the CHF selection, and the PDU session charging method indicates "offline only" for the PDU session, CHF instance(s) supporting CHF "offline only" service instances may be selected.

The CHF Selection by another CHF shall be based on following and with this priority order (highest to lowest)

* NRF based discovery
* Locally configured CHF address(es)

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| **Second Change** |

#### 5.1.9.2 CHF selection

V-CHF selection by the V-SMF, home routed and local breakout scenario at PDU session establishment or inter-PLMN V-SMF change, is based on the following and with this priority order (highest to lowest):

- NRF based discovery, can be based on that the UE is an inbound roamer i.e., HPLMN of the UE.

- V-SMF locally provisioned charging characteristics.

V-CHF selection by the V-SMF, home routed and local breakout scenario at intra-PLMN V-SMF change, is based on the following and with this priority order (highest to lowest):

- old V-SMF supplied V-CHF address

H-CHF selection by the H-SMF, home routed scenario, follows the CHF selection in clause 5.1.8.

H-CHF selection by the V-SMF, local breakout scenario, is based on the following and with this priority order (highest to lowest):

- NRF based discovery, can be based on HPLMN of the UE.

- V-SMF locally provisioned charging characteristics.

In local breakout scenario with architecture in Figure 4.2.6a, the V-CHF may select H-CHF based on the following and with this priority order (highest to lowest):

- NRF based discovery.

- V-CHF locally provisioned address(es).

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| **End of changes** |