**3GPP TSG-SA5 Meeting # *155 S5-243055***

Jeju, South Korea, 27 - 31 May 2024

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **32.256** | **CR** | **0034** | **rev** | **1** | **Current version:** | **18.3.0** |  |
|  | | | | | | | | |
| *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)*.* | | | | | | | | |
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| ***Proposed change affects:*** | UICC apps |  | ME |  | Radio Access Network |  | Core Network | **X** |

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| ***Title:*** | Rel-18 CR 32.256 Correction roaming architecture decision | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Ericsson LM | | | | | | | | | |
| ***Source to TSG:*** | S5 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | CHRACHF | | | | |  | ***Date:*** | | | 2024-05-16 |
|  |  | | | |  | |  | | |  |
| ***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 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:*** | | There are two charging architectures specified for the roaming case and one or both architectures in figure 4.2.2.2 and figure 4.2.2.3 of TS 32.256. AMF and V-CHF determines which architecture should be selected for a roaming UE based on operator agreement.  To apply N107 or N41, the decision logic can be made by the AMF. It can avoid a scenario where AMF makes decision on N41 and V-CHF makes decision on N107. The AMF can base the decision on wherever the CHF supports INTER\_CHF from the supported feature in the NRF.  When AMF decides to apply N107, AMF may want V-CHF to setup N107 inter-CHF charging session to H-CHF. | | | | | | | | |
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| ***Summary of change:*** | | Introduce new attribute to enable AMF to request V-CHF or MNO CHF to setup N107 charging session to H-CHF or MVNO CHF, and an attribute to allow the CHF to report if N107 has been setup. | | | | | | | | |
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| ***Consequences if not approved:*** | | May lead to interoperability issues if both N41 and N107 were to be used at the same time. | | | | | | | | |
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| ***Clauses affected:*** | | 6.2.1.5 | | | | | | | | |
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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:*** | | Revision of S5-242790. | | | | | | | | |

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| **First change** |

6.2.1.5 Definition of inter-CHF information

Specific charging information used for information when the V-CHF have a connection to the H-CHF.

The detailed structure of the inter-CHF Information can be found in table 6.2.1.5.1.

**Table 6.2.1.5.1: Structure of Inter-CHF Information**

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| **Information Element** | **Category** | **Description** |
| Remote CHF resource | OC | This field holds the reference to the Charging Data resource in the CHF not directly connected to the NF (i.e., H-CHF) e.g., the resource URI (NOTE 1) |
| Original NF Consumer Id | OC | This field holds information on the NF triggering the request i.e., AMF (NOTE 2) |
| NOTE 1: The Remote CHF resource is included in the response to the original NF if inter-CHF communication has been used.  NOTE 2: The Original NF Consumer Id is included in the request from the original NF if inter-CHF is expected to be used. | | |

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| **End of changes** |