**3GPP TSG SA WG5 Meeting #155 *S5-243028***

Jeju, South Korea, 27 - 31 May 2024

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| *CR-Form-v12.0* |
| **CHANGE REQUEST** |
|  |
|  | **32.255** | **CR** | **0527** | **rev** | **1** | **Current version:** | **18.3.0** |  |
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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 Change Inter-CHF information to be generic |
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| ***Source to WG:*** | Huawei |
| ***Source to TSG:*** | S5 |
|  |  |
| ***Work item code:*** | TEI18, B2B\_CH |  | ***Date:*** | 2024-05-30 |
|  |  |  |  |  |
| ***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 o. | *Use one of the following releases:Rel-8 (Release 8)Rel-9 (Release 9)Rel-10 (Release 10)Rel-11 (Release 11)Rel-12 (Release 12)**Rel-13 (Release 13)Rel-14 (Release 14)Rel-15 (Release 15)Rel-16 (Release 16)* |
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| ***Reason for change:*** | In Release 18, there are two charging service reference points introduced for the interaction between two CHFs. - N107 is used between V-CHF and H-CHF for LBO roaming charging (CHRACHF). - N108 is used between C-CHF and B-CHF for business charging (B2B\_CH). e.g. Network Slice (NETSLICE\_CH\_Ph2) and TSN (TSN\_CH).In the 5G data connectivity charging, both LBO roaming charging and business charging (per network slice or per TSN bridge) are supported.The inter-CHF information can be generic to also support the business charging scenarios.In addition, when inter CHF interaction is supported, the source of Charging Data Request may be either SMF or CHF (i.e. C-CHF or V-CHF), and destination of Charging Data Response may also be a CHF (i.e. C-CHF or V-CHF). This should be clarified. |
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| ***Summary of change:*** | 1. Add CHF to the source of Charging Data Request, and destination of Charging Data Response, in Table 6.1.1.1.1.2. Expand the definition of Inter-CHF Information, covering the case when C-CHF has connection to B-CHF. |
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| ***Consequences if not approved:*** | The inter-CHF information for N108 is undefined.  |
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| ***Clauses affected:*** | 6.1.1.1, 6.2.1.6 |
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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 32.291 CR 0563  |
|  |  |
| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** | Revision of S5-242728 |

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| **First change** |

#### 6.1.1.1 General

The Charging Data Request and Charging Data Response are specified in TS 32.290 [57] and include charging information. The Charging Data Request can be of type [Initial, Update, Termination].

Table 6.1.1.1.1 describes the use of these messages for converged charging.

Table 6.1.1.1.1: Converged charging messages reference table

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| **Message** | **Source** | **Destination** |
| Charging Data Request | SMF, CHF | CHF |
| Charging Data Response | CHF | SMF, CHF |

The following clauses describe the different fields used in the Charging Data messages and the category in the tables is used according to the charging data configuration defined in clause 5.4 of TS 32.240 [1].

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| **Next change** |

#### 6.2.1.6 Definition of Inter-CHF information

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

The detailed structure of the Inter-CHF Information can be found in table 6.2.1.6.1.

Table 6.2.1.4.1: Structure of Inter-CHF Information

|  |  |  |
| --- | --- | --- |
| Information Element | Category | Description |
| Remote CHF resource | OC | This field holds the reference the Charging Data resource in the CHF not directly connected to the NF e.g., the resource URI |
| Original NF Consumer Id | OM | This field holds information on the NF triggering the request i.e., SMF |

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| **End of change** |