**3GPP TSG-CT WG3 Meeting #137 *C3-245397***

**Hefei, CN, 14 – 18 October, 2024 (Revision of C3-245224)**

|  |
| --- |
| *CR-Form-v12.3* |
| **CHANGE REQUEST** |
|  |
|  | **29.525** | **CR** | **0373** | **rev** | **1** | **Current version:** | **19.0.0** |  |
|  |
| *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)*.* |
|  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Proposed change affects:*** | UICC apps |  | ME |  | Radio Access Network |  | Core Network | **X** |

|  |
| --- |
|  |
| ***Title:***  | Provisioning of charging information to AMF |
|  |  |
| ***Source to WG:*** | Ericsson |
| ***Source to TSG:*** | CT3 |
|  |  |
| ***Work item code:*** | TEI19\_SLUPiR |  | ***Date:*** | 2024-10-15 |
|  |  |  |  |  |
| ***Category:*** | **B** |  | ***Release:*** | Rel-19 |
|  | *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)* |
|  |  |
| ***Reason for change:*** | In the last CT3 meeting it was agreed to introduce a new clause for the handling of charging information in relation to UE Policies. According to this clause the Primary Charging Address is optional. However, ChargingInformation data type mandates the introduction of primaryChfAddress in the data structure. Based on that, the change needs to be corrected. |
| ***d*** |  |
| ***Summary of change:*** | Clause 4.2.2.7 is updated to change the condition of the primaryChfAddress to mandatory in the description of the information provided to the AMF. |
|  |  |
| ***Consequences if not approved:*** | Incorrect specification brings interoperability issues. |
|  |  |
| ***Clauses affected:*** | 4.2.2.7. |
|  |  |
|  | **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 does not have any impact in the OpenAPI specification. |
|  |  |
| ***This CR's revision history:*** |  |

**Additional discussion(if needed):**

**Proposed changes:**

\*\*\* First Change \*\*\*

#### 4.2.2.7 Provisioning of charging related information

This functionality applies to non-roaming and roaming scenarios. In non-roaming scenarios the NF service consumer corresponds to the AMF, and in the roaming scenario the NF service consumer corresponds to the V-PCF or the AMF.

When the "SLAMUP" feature is supported, the PCF may provide the NF service consumer with the charging function information for the UE, i.e. the CHF address(es), and if available, the associated CHF instance ID(s) and CHF set ID(s), during the UE Policy Association establishment based on the operator policy.

The (H-)PCF may retrieve the (H-)CHF addresses, and if available, the associated (H-)CHF instance ID(s) and (H-)CHF set ID(s) as described in 3GPP TS 29.512 [27], clause 4.2.2.3.1.

In order to provision the (H-)CHF information to the NF service consumer, the (H-)(V-)PCF shall include within the PolicyAssociation data structure the "chfInfo" attribute containing the charging information. The "ChargingInformation" data type shallinclude the primary (H-)CHF address, within the "primaryChfAddress" attribute and, if available, the secondary (H-)CHF address, within the "secondaryChfAddress" attribute. When the (H-)CHF supports redundancy based on NF Set concepts as described in 3GPP TS 29.500 [5], the "chfInfo" attribute shall include the (H-)CHF address, encoded within the"primaryChfAddress" attribute and, if available, the (H-)CHF instance, encoded within the "primaryChfInstanceId" attribute, and primary (H-)CHF set id, encoded within the "primaryChfSetId". The primary (H-)CHF information may be also complemented by secondary (H-)CHF information, if available.

The (V-)PCF provided (H-)CHF information shall overwrite any predefined (H-)CHF information configured at the AMF.

If there is no home operator policy indicating that the same (H-)CHF shall be selected by the (H-)PCF for the UE and by the AMF, then no charging information is provisioned by the (H-)PCF, and the AMF shall select the charging information as follows:

1. In non-roaming scenarios, a as specified in 3GPP TS 32.256 [44], clause 5.1.3.

2. In roaming scenarios, a as specified in 3GPP TS 32.256 [44], clause 5.1.5.2.

\*\*\* End of Changes \*\*\*