**3GPP TSG-SA5 Meeting #157 *S5-245877***

**Hyderabad, India, 14 - 18 October 2024**

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| *CR-Form-v12.3* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **32.256** | **CR** | **0047** | **rev** | **1** | **Current version:** | **19.0.0** |  |
|  | | | | | | | | |
| *For* [***HELP***](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-19 CR 32.256 Adding use of charging characteristics for CHF Group | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Ericsson | | | | | | | | | |
| ***Source to TSG:*** | SA5 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | CHFSeg | | | | |  | ***Date:*** | | | 2024-10-04 |
|  |  | | | |  | |  | | |  |
| ***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 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-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)  Rel-20 (Release 20)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | The handling of Charging Charateristics are unclear and is m issing CHF Group ID. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Adding relavent information the charging characteristics may be used for, including CHFGroup ID. | | | | | | | | |
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| ***Consequences if not approved:*** | | The use of charging characteristscs is unclear and could lead to interoperability issues.. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | A.1 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 S5-245652 | | | | | | | | |

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| **First change** |

Annex A (normative):  
Charging Characteristics

A.1 General

A subscriber may have Charging Characteristics assigned to his subscription. Default Charging Characteristics may also be pre-provisioned on the AMF.

During UE Registration, the subscribed Charging Characteristics, if any, shall override the AMF pre-provisioned Charging Characteristics. The subscribed Charging Characteristics may be transferred from old AMF during UE context transfer or retrieved from UDM.

The Charging Characteristics parameter consists of a string of 16 bits designated as behaviours , freely defined by Operators. These behaviours may be things like:

- CHF addresses: to be used by the AMF, optionally with associated CHF instance ID(s), CHF set ID(s), CHF Group ID

- CHF selection method: this indicates how the AMF is to select the CHF instance e.g., local configuration, NRF (see clauses 5.1.3 and 5.1.5.2)

- Charging scenario: indicates the charging scenario to be used i.e., ECUR, IEC, or PEC

- Level: the default trigger levels for the Location reporting charging e.g., TAI, or Cell

One usage may be as a behaviour index associated to Registration, N2 connections and Location reporting in converged charging as described in the example in Table A.1.1:

**Table A.1.1: Example of Charging Characteristics behaviours for AMF**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  |  | **Registration charging** | **N2 connections charging** | **Location reporting charging** | |
| **Behaviour Index** | **CHF address** | **CHF selection method** | **Charging scenario** | **Charging scenario** | **Charging scenario** | **Level** |
| 0 | CHF Set ID 1 | NRF | ECUR | - | - |  |
| 1 | Primary & secondary CHF addr.  1 & 2 | Local config. | IEC | PEC | PEC | TAI, Cell |
| 2 | CHF Group ID 1 | NRF | PEC | - | PEC | Cell |
| 3 | Primary & secondary CHF addr. 3 & 4 | Local config. | - | PEC | PEC | TAI |
| … | … |  | … | … | …… | … |



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| **End of changes** |