**3GPP TSG-SA5 Meeting #162 *S5-253758***

Goteborg, Sweden, 25 - 29 August 2025

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| *CR-Form-v12.3* |
| **CHANGE REQUEST** |
|  |
|  | **256** | **CR** | **0055** | **rev** | **1** | **Current version:** | **19.2.0** |  |
|  |
| *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-19 CR 32.256 Addition of disaster roaming indication charging |
|  |  |
| ***Source to WG:*** | Ericsson |
| ***Source to TSG:*** | SA5 |
|  |  |
| ***Work item code:*** | DUMMY |  | ***Date:*** | 2025-08-29 |
|  |  |  |  |  |
| ***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:*** | Addition of disaster roaming changing indication. |
|  |  |
| ***Summary of change:*** | Adding of disaster roaming changing indication. |
|  |  |
| ***Consequences if not approved:*** | The disaster roaming charging would be incomplete. |
|  |  |
| ***Clauses affected:*** | 6.2.1.2 |
|  |  |
|  | **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 0640 TS 32.298 CR 1054 |
|  |  |
| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** | Revision of S5-253589 |

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

5.1.5.1 General

Based on roaming agreements between the VPLMN and the HPLMN, for each UE determined as in-bound roamer, the AMF in VPLMN shall be able to collect charging information per UE registration, and interact with a V-CHF for CDR generation in VPLMN.

In addition, for this registration, the AMF in VPLMN may be able to interact with a H-CHF for CDR generation in HPLMN.

In the case of disaster roaming with minimization of service interruption service in this case there will be no connection to the H-CHF in HPLMN and only a connection with V-CHF in VPLMN.

\* \* \* Next Change \* \* \* \*

6.2.1.2 Definition of registration charging information

Specific charging information used for 5G registration charging is provided within the Registration Charging Information.

The detailed structure of the Registration Charging Information can be found in table 6.2.1.2.1.

**Table 6.2.1.2.1: Structure of Registration Charging Information**

|  |  |  |
| --- | --- | --- |
| **Information Element** | **Category** | **Description** |
| Registration message type | M | This field holds the message type received by the AMF associated to registration: registration (initial, mobility, periodic, emergency), deregistration. |
| User Information | OM | Group of user information. |
| User Identifier | OC | This field contains the identification of the user (i.e. GPSI). |
| User Equipment Info  | OC | This field holds the identification of the terminal (i.e. PEI, MAC Address) It may be used for identifying the user and shall be present in case Subscriber Identifier is not present. |
| unauthenticatedFlag | OC | This field indicates the served SUPI is not authenticated. |
| Roamer In Out  | OC | This field holds an indication if the roamer is in-bound or out-bound. This field is present only if UE is identified as a roamer. |
| Disaster Roaming Indicator | OC | This field may be set when the UE is registered for Disaster Roaming service specified in clause 5.40 of TS 23.501 [200]. |
| UE 5GMM Core Network Capability | OC | This field holds the UE 5GMM Core Network Capability included in UE MM Core network capabilities, as specified in clause 5.4.4a TS 23.501 [200] |
| MICO Mode Indication | OC | This field indicates whether the MICO Mode is applicable or not. |
| SMS Supported Indication | OC | This field indicates whether SMS is supported or not. |
| RAT Type | OC | This field holds the Radio Access Technology (RAT) currently serving the UE. |
| TAI List | OC | This field holds a set of tracking areas composing the Registration Area. |
| User Location Info | OC | This field indicates details of where the UE is currently located (access-specific user location information). |
| PSCell Information | OC | This field holds the PSCell: Primary SCG (Secondary Cell Group) Cell  |
| UE Time Zone | OC | This field holds the Time Zone of where the UE is located, if available where the UE currently resides. |
| Mobility Restrictions | OC | This field holds the Mobility Restrictions applicable to the UE: RAT restriction, Forbidden area, Service area restrictions and Core Network type restriction. |
| Requested NSSAI | OC | This field holds the requested NSSAI. |
| Allowed NSSAI | OC | This field holds the allowed NSSAI consisting of one or more S-NSSAIs for serving PLMN in the present Registration Area. |
| Rejected NSSAI | OC | This field holds the rejected NSSAI. |
| NSSAI mapping list | OC | This field holds the mapping of VPLMN S-NSSAIs to HPLMN S-NSSAIs. This field is applicable only in VPLMN for roaming scenarios. |
| Alternative NSSAI Map | OC | This field holds the list of mapping between the S-NSSAI to be replaced and the alternative S-NSSAI |
| AMF UE NGAP ID | OM | This fields holds the UE association over the N2 interface within the AMF. |
| RAN UE NGAP ID | OM | This fields holds the RAN UE NGAP ID over N2 interface. |
| RAN Node Id | OM | This fields holds the Global RAN Node ID. |
| SNPN ID | OC | This field holds PLMN ID and the NID which identifies the SNPN.The PLMN ID is the same as PLMN ID of the SUPI. |
| CAG ID List | OC | This field holds the Closed Access Group Identifier List. |
| Satellite Access Indicator | OC | This field holds the use of Satellite Access. |

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