**3GPP TSG-SA5 Meeting #162 *S5-253789***

Goteborg, Sweden, 25 - 29 August 2025

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| --- |
| *CR-Form-v12.3* |
| **CHANGE REQUEST** |
|  |
|  | **255** | **CR** | **0602** | **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 32.255 Correction of missing the Slice Info and the DNN Selection Mode |
|  |  |
| ***Source to WG:*** | Ericsson |
| ***Source to TSG:*** | SA5 |
|  |  |
| ***Work item code:*** | TEI19 |  | ***Date:*** | 2025-08-15 |
|  |  |  |  |  |
| ***Category:*** | **F** |  | ***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 an interworking case there may be a network slice associated with the connection, and this should in this case be reported, also the selection mode for the APN/DNN is missing. |
|  |  |
| ***Summary of change:*** | Addition of S-NSSAI, SCC mode, and DNN selection mode. |
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| ***Consequences if not approved:*** | Missing information may lead to incorrect charging. |
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| ***Clauses affected:*** | C.3.2.1 |
|  |  |
|  | **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 S5-253574. |

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

C.3.2.1 Definition of 5G data connectivity charging information

The charging information defined in clause 6.2.1 is used for the SMF+PGW-C to support GERAN/UTRAN access.

The specific PDU session charging information when UE is connected to SMF+P-GW-C via GERAN/UTRAN is provided as defined in table 6.2.1.2.1, with the differences that PDU session is replaced by PDP context in fields description and other differences described under following table C.3.2.1-1:

**Table C.3.2.1-1: Structure of PDU Session Charging Information**

|  |  |  |
| --- | --- | --- |
| **Information Element** | **Category** | **Description** |
| Charging Id | OM | Described in table 6.2.1.2.1. |
| User Information | OM | Described in table 6.2.1.2.1. |
| User Identifier | OC | Described in table 6.2.1.2.1. |
| User Equipment Info  | OC | Described in table 6.2.1.2.1. |
| unauthenticatedFlag | OC | Described in table 6.2.1.2.1. |
| Roamer In Out  | OC | Described in table 6.2.1.2.1. |
| User Location Info | OC | Described in table 6.2.1.2.1.The "User Location Information" (ULI) IE indicating CGI/SAI/RAI shall apply as described in TS 29.060 [205] clause 7.7.51. |
| User Location Time | OC | Described in table 6.2.1.2.1. |
| UE Time Zone | OC | Described in table 6.2.1.2.1. |
| PDU Session Information | OC | Described in table 6.2.1.2.1. |
| PDU Session ID | M | Described in table 6.2.1.2.1. |
| S-NSSAI | OC | Described in table 6.2.1.2.1. |
| PDU Type | OM | Described in table 6.2.1.2.1. |
| PDU Address | OC | Described in table 6.2.1.2.1. |
| PDU Ipv4 Address | OC | Described in table 6.2.1.2.1. |
| PDU IPv6 Address with Prefix | OC | Described in table 6.2.1.2.1. |
| PDU Address prefix length | OC | Described in table 6.2.1.2.1. |
| IPv4 Dynamic Address Flag | OC | Described in table 6.2.1.2.1. |
| IPv6 Dynamic Address Flag | OC | Described in table 6.2.1.2.1. |
|  |  |  |
| SUPI PLMN ID | OC- | Described in table 6.2.1.2.1. |
| Serving Network Function ID  | OC | Described in table 6.2.1.2.1. |
| Serving Network Function Functionality | M | Described in table 6.2.1.2.1.This field holds “SGSN” when SMF+PGW-C serves GERAN/UTRAN access. |
| Serving Network Function Name | OC | Described in table 6.2.1.2.1. |
| Serving CN PLMN ID | OC | Described in table 6.2.1.2.1. |
| RAT Type | OC | Described in table 6.2.1.2.1. |
| Data Network Name Identifier | M | Described in table 6.2.1.2.1, with DNN replaced by APN. |
| DNN Selection Mode | OC | Described in table 6.2.1.2.1. |
| Authorized QoS Information | OC | Described in table 6.2.1.2.1 QoS information mapped according to interaction with PCC as specified in TS 23.502 [201] clause 4.11.0a.2. |
| Subscribed QoS Information | OC | Described in table 6.2.1.2.1 QoS information mapped according to interaction with PCC as specified in TS 23.502 [201] clause 4.11.0a.2. |
| Authorized Session-AMBR | OC | Described in table 6.2.1.2.1. |
| Subscribed Session-AMBR | OC | Described in table 6.2.1.2.1. |
| PDU session start Time | OC | Described in table 6.2.1.2.1. |
| PDU session stop Time | OC | Described in table 6.2.1.2.1. |
| Diagnostics | OC | Described in table 6.2.1.2.1. |
| Enhanced Diagnostics | OC | Described in table 6.2.1.2.1. |
| Charging Characteristics | OC | Described in table 6.2.1.2.1. |
| Charging CharacteristicsSelection Mode | OC | Described in table 6.2.1.2.1. |
| 3GPP PS Data Off Status | OC | Described in table 6.2.1.2.1. |
| Unit Count Inactivity Timer | OC | Described in table 6.2.1.2.1. |

The specific PDU Container Information when UE is connected to SMF+P-GW-C via GERAN/UTRAN is provided as defined in table 6.2.1.3.1, with the differences described under following table C.3.2.1-2:

**Table C.3.2.1-2: Structure of PDU Container Information**

| **Information Element** | **Category** | **Description**  |
| --- | --- | --- |
| Time of First Usage | OC | Described in table 6.2.1.3.1. |
| Time of Last Usage | OC | Described in table 6.2.1.3.1. |
| QoS Information | OC | Described in table 6.2.1.3.1. |
| QoS Characteristics | OC | Described in table 6.2.1.3.1. |
| AF Charging Identifier | OC | Described in table 6.2.1.3.1. |
| AF Charging Id String | OC | Described in table 6.2.1.3.1. |
| User Location Information | OC | Described in table 6.2.1.3.1. |
| UE Time Zone | OC | Described in table 6.2.1.3.1. |
| Presence Reporting Area Information | OC | Described in table 6.2.1.3.1. |
| Serving Network Function ID  | OC | Described in table 6.2.1.3.1. |
| RAT Type | OC | Described in table 6.2.1.3.1. |
| Sponsor Identity | OC | Described in table 6.2.1.3.1. |
| Application Service Provider Identity | OC | Described in table 6.2.1.3.1. |
| Charging Rule Base Name | OC | Described in table 6.2.1.3.1. |
| 3GPP PS Data Off Status | OC | Described in table 6.2.1.3.1. |

The specific Roaming QBC information is described in table B.2.2.1.2-1 and QFI Container Information is described in table B.2.2.1.3-1 for when UE is connected to SMF+P-GW via GERAN/UTRAN, with the differences that PDU session is replaced by PDP context in fields description.

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