**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 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:*** | | 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. | | | | | | | | |
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| ***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. | | | | | | | | |
|  | |  | | | | | | | | |
| ***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 Characteristics  Selection 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 \* \* \* \*