**3GPP TSG-SA5 Meeting #141-e *S5-221101***

**e-meeting, 17 - 26 January 2022** Revision of S5-20xxxx

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **32.255** | **CR** | **0355** | **rev** | **1** | **Current version:** | **17.4.0** |  |
|  | | | | | | | | |
| *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:*** | Additional charging information for the 5G LAN charging | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Huawei | | | | | | | | | |
| ***Source to TSG:*** | S5 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | 5GLAN\_CH | | | | |  | ***Date:*** | | | 2022-01-24 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | B |  | | | | | ***Release:*** | | | Rel-17 |
|  | *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-15 (Release 15) Rel-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | For the support of 5G LAN service charging, the general description about 5G LAN VN group management and communication charging is introduced. The detailed 5G VN group communication charging is required. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Add the charging information for the support of 5G VN group communication charging | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | The support of the 5G LAN is incomplete. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 6.2.1.2,6.2.1.3,6.2.2 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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/TR ... CR ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

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| **First change** |

#### 6.2.1.2 Definition of PDU session charging information

PDU session specific charging information used for 5G data connectivity charging is provided within the PDU session charging Information.

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

Table 6.2.1.2.1: Structure of PDU Session Charging Information

|  |  |  |
| --- | --- | --- |
| Information Element | Category | Description |
| Charging Id | OM | This field holds the Charging Id for PDU session. |
| Home Provided Charging Id | OC | This field holds the Charging Id generated by H-SMF.This field is only applicable in V-SMF in the home routed roaming scenario for EPS to 5GS interworking. |
| 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 is used for identifying the user in case SUPI is not present during emergency service. The detail identification of the wireline access is specified in clause 4.7.7 of TS 23.316 [203]. |
| 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. |
| User Location Info | OC | This field indicates details of where the UE is currently located (access-specific user location information).  For MA PDU session, this field holds the user location associated to the 3GPP access |
| MA PDU Non 3GPP User Location info | OC | This field holds the user location associated to the non 3GPP access for MA PDU session. |
| User Location Time | OC | This field holds the UTC time at which the UE was last known to be in the location.  For MA PDU session, this field holds the user location time associated to the 3GPP access. |
| MA PDU Non 3GPP User Location Time | OC | This field holds the user location time associated to the non 3GPP access for MA PDU session. |
| UE Time Zone | OC | This field holds the Time Zone of where the UE is located, if available where the UE currently resides. |
| Presence Reporting Area Information | OC | This field contains part of the Presence Reporting Area Information of UE as defined in TS 23.501[200], comprising the Presence Reporting Area identifier(s) and an indication on whether the UE is inside or outside the Presence Reporting Area, if available. |
| PDU Session Information | OC | Group of PDU session information. |
| PDU Session ID | M | This field holds identifier of PDU session. |
| Network Slice Instance Identifier | OM | This field holds network slice information the PDU session belongs to. |
| PDU Type | OM | This field holds the type of PDU session. |
| PDU Address | OC | Group of UE IP address. |
| PDU Ipv4 Address | OC | This field holds the IP Address of the served SUPI allocated for PDU session, i.e. IPv4 address. |
| PDU IPv6 Address with Prefix | OC | This field holds the IP Address of the served SUPI allocated for PDU session, i.e. IPv6 prefix. |
| PDU Address prefix length | OC | PDP/PDN Address prefix length of an IPv6 typed Served PDU Address. The field needs not available for prefix length of 64 bits. |
| IPv4 Dynamic Address Flag | OC | This field indicates whether served PDP/PDN address for IPv4 is dynamically allocated. This field is missing if address is static. |
| IPv6 Dynamic Address Flag | OC | This field indicates whether served PDP/PDN address for IPv6 is dynamically allocated. This field is missing if address is static. |
| Additional PDU IPv6 prefixes | OC | This field holds a list of additional IPv6 prefix allocated for the PDU session, when applicable. |
| SSC Mode | OC | This field holds SSC mode of PDU session. |
| MA PDU session information | OC | This field holds information associated to the MA PDU session. |
| MA PDU session indicator | OC | This field indicates the PDU session is a MA PDU session requested by the UE or requested by Network modification based ATSSS capabilities provided by the UE and the Network. |
| ATSSS capability | OC | This field holds the ATSSS capability supported by the MA PDU session |
| SUPI PLMN ID | OC | This field holds PLMN ID of the SUPI. |
| Serving Network Function ID | OC | This field holds the identity of the serving network function  - AMF identity for the PDU sessions being served by SMF in non-roaming  - V-SMF identity for the home routed roaming  - I-SMF identity for PDU session being served by SMF + I-SMF  - ePDG identity for handover between EPC/ePDG and 5GS  - SGW identity for the EPC/E-UTRAN interworking  In all other cases the identity is implementation specific. |
| Serving Network Function Functionality | M | This field holds the functionality of the serving network function:  - AMF for the PDU sessions being served by SMF in non-roaming  - SMF for the home routed roaming  - I-SMF for the PDU session being served by SMF + I-SMF  - ePDG for handover between EPC/ePDG and 5GS  - SGW for EPC/E-UTRAN interworking. |
| Serving Network Function Name | OC | This field holds the unique identifier of the serving network function instance. |
| Serving Network Function Addresses | OC | This field holds the IP addresses of the serving network function. |
| Serving Network Function FQDN | OC | This field holds the FQDN the serving network function.  When the serving network function is an AMF, this FQDN is the AMF name as defined in clause 5.9.5 of 3GPP TS 23.501 [200]. |
| Serving Network Function PLMN ID | OC | This field holds the PLMN ID of the network the Serving Network Function belongs to. |
| AMF Identifier | OC | This field holds the AMF identifier. |
| Serving CN PLMN ID | OC | This field holds the serving Core Network Operator PLMN ID selected by the UE if different from SMF PLMN ID. |
| RAT Type | OC | This field holds the Radio Access Technology (RAT) currently serving the UE.  For MA PDU session, this field holds the Radio Access Technology (RAT) associated to the 3GPP access |
| MA PDU Non 3GPP RAT Type | OC | This field holds the Radio Access Technology (RAT) serving the UE in non 3GPP access for MA PDU session. |
| Data Network Name Identifier | M | This field contains the identifier of the DNN the user is connected to. |
| DNN Selection Mode | OC | This field indicates whether the requested DNN corresponds to an explicitly subscribed DNN or to the usage of a wildcard subscription. |
| Authorized QoS Information | OC | This field holds the authorized QoS applied to PDU session. |
| Subscribed QoS Information | OC | This field holds the subscribed default QoS for the PDU session. |
| Authorized Session-AMBR | OC | This field holds the authorized Session-AMBR for the PDU session. |
| Subscribed Session-AMBR | OC | This field holds the subscribed Session-AMBR for the PDU session. |
| PDU session start Time | OC | This field holds the timestamp when PDU session starts. |
| PDU session stop Time | OC | This field holds the timestamp when PDU session terminates. |
| Diagnostics | OC | This field holds a detailed reason for the release of the PDU session and complements the "Change Condition" information. |
| Enhanced Diagnostics | OC | This field holds a more detailed reason for the release of the PDU session, when a set of causes are applicable. |
| Charging Characteristics | OC | This field holds the Charging Characteristics for this PDU session. |
| Charging Characteristics  Selection Mode | OC | This field holds information about how the "Charging Characteristics" was selected. |
| 3GPP PS Data Off Status | OC | This field holds the 3GPP Data off Status when UE's 3GPP Data Off status is Activated or Deactivated. |
| Session Stop Indicator | OC | This field indicates to the CHF that the PDU session has been terminated. |
| Redundant Transmission  Type | OC | This field holds the redundant transmission Type. |
| PDU Session Pair ID | OC | This field holds an identifier that may be used to link two redundant PDU Sessions for dual connectivity based end to end redundant user plane paths type. |
| Qos Monitoring Report | OC | This field holds the Service Data Flow QoS Monitoring at PDU Session termination. |
| 5G LAN Type Service | OC | This field holds the 5G LAN Type service information, if present, the 5G LAN Type service is used. |
| Internal Group Identifier | M | This field holds the identifier of the 5G LAN VN group. |
| RAN Secondary RAT Usage Report | OC | This field holds the secondary RAT usage reported from NG-RAN. |
| NG RAN Secondary RAT Type | OC | This field holds the value of Secondary RAT Type, as provided by the NG-RAN. |
| Qos Flows Usage Reports | OC | This field holds a list of containers per QFI with volumes reported, each container is time stamped. |
| QoS Flow Id | OM | This field holds the QoS flow Identifier (QFI) |
| Start Timestamp | OC | This field holds the start timestamp of the collected usage. |
| End Timestamp | OC | This field holds the end timestamp of the collected usage. |
| Downlink Volume | OC | This field holds the amount of used volume in downlink direction. |
| Uplink Volume | OC | This field holds the amount of used volume in uplink direction. |

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| **Next change** |

#### 6.2.1.3 Definition of PDU Container information

Used Unit Container, described in table 6.1.1.2.1, specific charging information used for 5G data connectivity charging is provided within the PDU Container Information described in table 6.2.1.3.1.

Table 6.2.1.3.1: Structure of PDU Container Information

| Information Element | Category | Description |
| --- | --- | --- |
| Time of First Usage | OC | This field holds the Timestamp when the first transmitted IP packet of the service data flow matching the current used unit container |
| Time of Last Usage | OC | This field holds the Timestamp when the last transmitted IP packet of the service data flow matching the current used unit container |
| QoS Information | OC | This field holds the QoS applied during the service data container interval |
| QoS Characteristics | OC | This field holds the QoS characteristics applied for QoS information. It is only be used when the non-standardized 5QI is present in QoS information. |
| AF Charging Identifier | OC | An identifier, provided from the AF, may be used to correlate the measurement for the Charging key/Service identifier values in this PCC rule with application level reports. |
| AF Charging Id String | OC | A string that, may be provided from the AF instead of AF Charging Identifier, depending on support. |
| User Location Information | OC | This field holds the user location during the used unit container interval |
| UE Time Zone | OC | This field holds the Time Zone of where the UE is located, during the used unit container interval. |
| Presence Reporting Area Information | OC | This field holds the Presence Reporting Area Information of UE during the used unit container interval. |
| Serving Network Function ID | OC | Serving Network Function identifier. |
| RAT Type | OC | This field holds the RAT type during the used unit container interval.  For MA PDU session, this field holds the RAT type associated to the access which activated the rating group. |
| Sponsor Identity | OC | This field holds the identifier of the sponsor when sponsored data connectivity is used |
| Application Service Provider Identity | OC | This field holds the identifier of the application service provider that is delivering a service to the end user. |
| Charging Rule Base Name | OC | This field holds the reference to group of PCC rules predefined at the SMF |
| 3GPP PS Data Off Status | OC | This field holds the 3GPP Data off Status during the used unit container interval |
| MA PDU Steering functionality | OC | This field holds the Steering functionality used during the used unit container interval when MA PDU session |
| MA PDU Steering mode | OC | This field holds the Steering mode used during the used unit container interval when MA PDU session. |
| Traffic Forwarding Way | OC | This field holds the traffic forwarding way for the 5G VN group communication if present.  If the SMF can distinguish the traffic forwarding way, the SMF reports the volume per traffic forwarding way. If the SMF cannot distinguish, the SMF reports the traffic and the corresponding traffic forwarding way (may be multiple). |

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| **Next change** |

### 6.2.2 Detailed message format for converged charging

The following clause specifies per Operation Type the charging data that are sent by SMF for 5G data connectivity converged charging or offline only charging.

The Operation Types are listed in the following order: I (Initial)/U (Update)/T (Termination)/E (Event). Therefore, when all Operation Types are possible it is marked as IUTE. If only some Operation Types are allowed for a node, only the appropriate letters are used (i.e. IUT or E) as indicated in the table heading. The omission of an Operation Type for a particular field is marked with "-" (i.e. IU-E). Also, when an entire field is not allowed in a node the entire cell is marked as "-".

Table 6.2.2.1 defines the basic structure of the supported fields in the *Charging Data* Request message for 5G data connectivity converged charging or offline only charging.

Table 6.2.2.1: Supported fields in *Charging Data Request* message

| Information Element | | | Functionality of SMF | FBC | | | QBC | | | FBC | | | QBC | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Charging Service | Converged Charging | | | Converged Charging | | | Offline Only Charging | | | Offline Only Charging | | |
| Supported Operation Types | I/U/T/E | | | I/U/T/E | | | I/U/T/E | | | I/U/T/E | | |
| Session Identifier | | | | -UT- | | | -UT- | | | -UT- | | | -UT- | | |
| Subscriber Identifier | | | | IUT- | | | IUT- | | | IUT- | | | IUT- | | |
| NF Consumer Identification | | | | IUT- | | | IUT- | | | IUT- | | | IUT- | | |
| Invocation Timestamp | | | | IUT- | | | IUT- | | | IUT- | | | IUT- | | |
| Invocation Sequence Number | | | | IUT- | | | IUT- | | | IUT- | | | IUT- | | |
| Retransmission Indicator | | | | IUT- | | | IUT- | | | IUT- | | | IUT- | | |
| Notify URI | | | | IU- | | | IU- | | | IU- | | | IU- | | |
| Supported Features | | | | IU- | | | IU- | | | - | | | - | | |
| Service Specification Information | | | | IUT- | | | IUT- | | | IUT- | | | IUT- | | |
| Triggers | | | | -UT- | | | -UT- | | | -UT- | | | -UT- | | |
| Multiple Unit Usage | | | | IUT- | | | - | | | IUT- | | | - | | |
| Rating Group | | | | IUT- | | | - | | | IUT- | | | - | | |
| Requested Unit | | | | IU-- | | | - | | | - | | | - | | |
| Used Unit Container | | | | -UT- | | | - | | | -UT- | | | - | | |
| Triggers | | | | -UT- | | | - | | | -UT- | | | - | | |
| PDU Container Information | | | | -UT- | | | - | | | -UT- | | | - | | |
| UPF ID | | | | IUT- | | | IUT- | | | IUT- | | | IUT- | | |
| PDU Session Charging Information | | | | IUT- | | | IUT- | | | IUT- | | | IUT- | | |
| Charging Id | | | | IUT- | | | IUT- | | | IUT- | | | IUT- | | |
| Home Provided Charging Id | | | | -UT- | | | -UT- | | | -UT- | | | -UT- | | |
| User Information | | | | IUT- | | | IUT- | | | IUT- | | | IUT- | | |
| User Location Info | | | | IUT- | | | IUT- | | | IUT- | | | IUT- | | |
| MA PDU Non 3GPP User Location Info | | | | IUT- | | | IUT- | | | IUT- | | | IUT- | | |
| User Location Time | | | | IUT- | | | IUT- | | | IUT- | | | IUT- | | |
| MA PDU Non 3GPP User Location Time | | | | IUT- | | | IUT- | | | IUT- | | | IUT- | | |
| UE Time Zone | | | | IUT- | | | IUT- | | | IUT- | | | IUT- | | |
| Presence Reporting Area Information | | | | -UT- | | | -UT- | | | -UT- | | | -UT- | | |
| PDU Session Information | | | | IUT- | | | IUT- | | | IUT- | | | IUT- | | |
| PDU Session ID | | | | IUT- | | | IUT- | | | IUT- | | | IUT- | | |
| Network Slice Instance Identifier | | | | IUT- | | | IUT- | | | IUT- | | | IUT- | | |
| PDU Type | | | | IUT- | | | IUT- | | | IUT- | | | IUT- | | |
| PDU Address | | | | IUT- | | | IUT- | | | IUT- | | | IUT- | | |
| SSC Mode | | | | IUT- | | | IUT- | | | IUT- | | | IUT- | | |
| MA PDU session information | | | | IUT- | | | IUT- | | | IUT- | | | IUT- | | |
| SUPI PLMN ID | | | | IUT- | | | IUT- | | | IUT- | | | IUT- | | |
| Serving Network Function ID | | | | IUT- | | | IUT- | | | IUT- | | | IUT- | | |
| Serving CN PLMN ID | | | | IUT- | | | IUT- | | | IUT- | | | IUT- | | |
| RAT Type | | | | IUT- | | | IUT- | | | IUT- | | | IUT- | | |
| MA PDU Non 3GPP RAT Type | | | | IUT- | | | IUT- | | | IUT- | | | IUT- | | |
| Data Network Name Identifier | | | | IUT- | | | IUT- | | | IUT- | | | IUT- | | |
| DNN Selection Mode | | | | IUT- | | | IUT- | | | IUT- | | | IUT- | | |
| Authorized QoS Information | | | | IUT- | | | IUT- | | | IUT- | | | IUT- | | |
| Subscribed QoS Information | | | | IUT- | | | IUT- | | | IUT- | | | IUT- | | |
| Authorized Session-AMBR | | | | IUT- | | | IUT- | | | IUT- | | | IUT- | | |
| Subscribed Session-AMBR | | | | IUT- | | | IUT- | | | IUT- | | | IUT- | | |
| PDU session start Time | | | | I--- | | | I--- | | | I--- | | | I--- | | |
| PDU session stop Time | | | | --T- | | | --T- | | | --T- | | | --T- | | |
| Diagnostics | | | | --T- | | | --T- | | | --T- | | | --T- | | |
| Enhanced Diagnostics | | | | --T- | | | --T- | | | --T- | | | --T- | | |
| Charging Characteristics | | | | IUT- | | | IUT- | | | IUT- | | | IUT- | | |
| Charging Characteristics Selection Mode | | | | IUT- | | | IUT- | | | IUT- | | | IUT- | | |
| 3GPP PS Data Off Status | | | | IUT- | | | IUT- | | | IUT- | | | IUT- | | |
| Session Stop Indicator | | | | --T- | | | --T- | | | --T- | | | --T- | | |
| Redundant Transmission Type | | | | IUT- | | | IUT- | | | IUT- | | | IUT- | | |
| PDU Session Pair ID | | | | IUT- | | | IUT- | | | IUT- | | | IUT- | | |
| 5G LAN Type Service | | | | IUT- | | | IUT- | | | IUT- | | | IUT- | | |
| Unit Count Inactivity Timer | | | | IU-- | | | - | | | IU-- | | | - | | |
| RAN Secondary RAT Usage Report | | | | -UT- | | | -UT- | | | -UT- | | | -UT- | | |
| Roaming QBC information | | | | - | | | IUT- | | | - | | | IUT- | | |
| Multiple QFI container | | | | - | | | IUT- | | | - | | | IUT- | | |
| UPF ID | | | | - | | | IUT- | | | - | | | IUT- | | |
| Roaming Charging Profile | | | | - | | | IU-- | | | - | | | IU-- | | |

Table 6.2.2.2 defines the basic structure of the supported fields in the *Charging Data* Response message for 5G data connectivity converged charging or offline only charging.

Table 6.2.2.2: Supported fields in *Charging Data Response* message

| Information Element | | Functionality of SMF | FBC | | QBC | | FBC | | QBC | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Charging Service | Converged Charging | | Converged Charging | | Offline Only Charging | | Offline Only Charging | |
| Supported Operation Types | I/U/T/E | | I/U/T/E | | I/U/T/E | | I/U/T/E | |
| Session Identifier | | | I--- | | I--- | | I--- | | I--- | |
| Invocation Timestamp | | | IUT- | | IUT- | | IUT- | | IUT- | |
| Invocation Result | | | IUT- | | IUT- | | IUT- | | IUT- | |
| Invocation Sequence Number | | | IUT- | | IUT- | | IUT- | | IUT- | |
| Session Failover | | | IU-- | | IUT- | | IU-- | | IUT- | |
| Supported Features | | | IU-- | | IU-- | | - | | - | |
| Triggers | | | IU-- | | IU-- | | IU-- | | IU-- | |
| Multiple Unit information | | | IU-- | | - | | IU-- | | - | |
| Result Code | | | IU-- | | - | | IU-- | | - | |
| Rating Group | | | IU-- | | - | | IU-- | | - | |
| UPF ID | | | IU-- | | - | | IU-- | | - | |
| Granted Unit | | | IU-- | | - | | - | | - | |
| Validity Time | | | IU-- | | - | | - | | - | |
| Final Unit Indication | | | IU-- | | - | | - | | - | |
| Time Quota Threshold | | | IU-- | | - | | - | | - | |
| Volume Quota Threshold | | | IU-- | | - | | - | | - | |
| Unit Quota Threshold | | | IU-- | | - | | - | | - | |
| Quota Holding Time | | | IU-- | | - | | - | | - | |
| Triggers | | | IU-- | | - | | IU-- | | - | |
| PDU Session Charging Information | | | IU-- | | IU-- | | IU-- | | IU-- | |
| Charging Id | | | - | | - | | - | | - | |
| Home Provided Charging Id | | | - | | - | | - | | - | |
| User Information | | | - | | - | | - | | - | |
| User Location Info | | | - | | - | | - | | - | |
| MA PDU Non 3GPP User Location info | | | - | | - | | - | | - | |
| User Location Time | | | - | | - | | - | | - | |
| MA PDU Non 3GPP User Location Time | | | - | | - | | - | | - | |
| UE Time Zone | | | - | | - | | - | | - | |
| Presence Reporting Area Information | | | IU-- | | IU-- | | IU-- | | IU-- | |
| PDU Session Information | | | - | | - | | - | | - | |
| PDU Session ID | | | - | | - | | - | | - | |
| Network Slice Instance Identifier | | | - | | - | | - | | - | |
| PDU Type | | | - | | - | | - | | - | |
| PDU Address | | | - | | - | | - | | - | |
| SSC Mode | | | - | | - | | - | | - | |
| MA PDU session information | | | - | | - | | - | | - | |
| SUPI PLMN ID | | | - | | - | | - | | - | |
| Serving Network Function ID | | | - | | - | | - | | - | |
| Serving CN PLMN ID | | | - | | - | | - | | - | |
| RAT Type | | | - | | - | | - | | - | |
| MA PDU Non 3GPP RAT Type | | | - | | - | | - | | - | |
| Data Network Name Identifier | | | - | | - | | - | | - | |
| DNN Selection Mode | | | - | | - | | - | | - | |
| Authorized QoS Information | | | - | | - | | - | | - | |
| Subscribed QoS Information | | | - | | - | | - | | - | |
| Authorized Session-AMBR | | | - | | - | | - | | - | |
| Subscribed Session-AMBR | | | - | | - | | - | | - | |
| PDU session start Time | | | - | | - | | - | | - | |
| PDU session stop Time | | | - | | - | | - | | - | |
| Diagnostics | | | - | | - | | - | | - | |
| Enhanced Diagnostics | | | - | | - | | - | | - | |
| Charging Characteristics | | | - | | - | | - | | - | |
| Charging Characteristics Selection Mode | | | - | | - | | - | | - | |
| Charging Rule Base Name | | | - | | - | | - | | - | |
| 3GPP PS Data Off Status | | | - | | - | | - | | - | |
| Session Stop Indicator | | | - | | - | | - | | - | |
| Redundant Transmission Type | | | - | | - | | - | | - | |
| PDU Session Pair ID | | | - | | - | | - | | - | |
| 5G LAN Type Service | | | - | | - | | - | | - | |
| Unit Count Inactivity Timer | | | IU-- | | - | | - | | - | |
| RAN Secondary RAT Usage Report | | | - | | - | | - | | - | |
| Roaming QBC information | | | - | | IU-- | | - | | IU-- | |
| Multiple QFI container | | | - | | - | | - | | - | |
| UPF ID | | | - | | - | | - | | - | |
| Roaming Charging Profile | | | - | | IU-- | | - | | IU-- | |

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| **End of change** |