**3GPP TSG-SA5 Meeting #162 *S5-253770***

Goteborg, Sweden, 25 - 29 August 2025

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| *CR-Form-v12.3* |
| **CHANGE REQUEST** |
|  |
|  | **32.255** | **CR** | **0605** | **rev** | **1** | **Current version:** | **19.2.0** |  |
|  |
| *For* ***[HE](http://www.3gpp.org/3G_Specs/CRs.htm%22%20%5Cl%20%22_blank)******[LP](http://www.3gpp.org/3G_Specs/CRs.htm%22%20%5Cl%20%22_blank)*** *on using this form: comprehensive instructions can be found at <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:***  | Add Service-level-AA for support of UAS charging |
|  |  |
| ***Source to WG:*** | China Mobile Com. Corporation |
| ***Source to TSG:*** | SA5 |
|  |  |
| ***Work item code:*** | UAS\_Ph3-CH |  | ***Date:*** | 2025-08-27 |
|  |  |  |  |  |
| ***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:*** | Based on the discussion during SA5 #161, the SA5 charging working group recommends adding the IE already defined by CT WG to identify the UAV. The liaison S5-252788 has also been sent to CT3 and CT4. According to clause 8.3.1.16 and 8.3.7.15 of TS 24.501, the Service-level-AA container IE can be used to identify the PDU sessions for the UAS services, which can be reused to support UAS charging. |
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| ***Summary of change:*** | Add Service-level-AA IE to indicate the UAV. |
|  |  |
| ***Consequences if not approved:*** | Converged charging support of UAS is incomplete. |
|  |  |
| ***Clauses affected:*** | 2, 6.2.1.2, 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 32.291 CR 0642 TS 32.298 CR 1058  |
|  |  |
| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** | This is the revision of S5-253628. |

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| **First change** |

# 2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non‑specific.

- For a specific reference, subsequent revisions do not apply.

- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

[1] 3GPP TS 32.240: "Telecommunication management; Charging management; Charging architecture and principles".

[2] - [42] Void.

[43] 3GPP TS 32.282: "Charging management; Time-Sensitive Networking (TSN) charging".

[44] - [50] Void.

[51] 3GPP TS 32.298: "Telecommunication management; Charging management; Charging Data Record (CDR) parameter description".

[52] 3GPP TS 32.297: "Telecommunication management; Charging management; Charging Data Record (CDR) file format and transfer".

[53] Void.

[54] 3GPP TS 32.295: "Telecommunication management; Charging management; Charging Data Record (CDR) transfer".

[55-56] Void.

[57] 3GPP TS 32.290: "Telecommunication management; Charging management; 5G system; Services, operations and procedures of charging using Service Based Interface (SBI)".

[58] 3GPP TS 32.291: "Telecommunication management; Charging management; 5G system; Charging service, stage 3".

[59] - [69] Void.

[70] 3GPP TS 28.202: "Charging management; Network slice management charging in the 5G System (5GS); Stage 2".

[71] 3GPP TS 28.201: " Charging management; Network slice performance and analytics charging in the 5G System (5GS); Stage 2".

[72] - [99] Void.

[100] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".

[101] 3GPP TS 22.115: "Service aspects; Charging and billing".

[102] 3GPP TS 22.261: "Service requirements for next generation new services and markets".

[103] 3GPP TS 32.130: "Network sharing; Concepts and requirements".

[104] - [199] Void

[200] 3GPP TS 23.501:"System Architecture for the 5G System".

[201] 3GPP TS 23.502:"Procedures for the 5G System".

[202] 3GPP TS 23.503:"Policy and Charging Control Framework for the 5G System; Stage 2".

[203] 3GPP TS 23.316: "Wireless and wireline convergence access support for the 5G System (5GS)".

[204] 3GPP TS 23.247: "Architectural enhancements for 5G multicast-broadcast services; Stage 2".

[205] 3GPP TS 29.060: "General Packet Radio Service (GPRS); GPRS Tunnelling Protocol (GTP) across the Gn and Gp interface".

[206] 3GPP TS 23.256: "Support of Uncrewed Aerial Systems (UAS) connectivity, identification and tracking; Stage 2".

[207] 3GPP TS 24.501: "Non-Access-Stratum (NAS) protocol for 5G System (5GS); Stage 3".

[208] - [299] Void

[300] - [399] Void.

[400] - [499] Void.

[500] - [599] Void.

[600] 3GPP TS 23.228:"IP Multimedia Subsystem (IMS); Stage 2".

[601] 3GPP TS 29.512:" 5G System; Session Management Policy Control Service; Stage 3".

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| **Next 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 Identifier for PDU session. The value of Charging Id is the same as that of Home Provided Charging Id in V-SMF only in the home routed roaming scenario for EPS to 5GS interworking and inter-PLMN mobility from HPLMN with I-SMF to VPLMN. |
| Home Provided Charging Id | OC | This field holds the Charging Identifier generated by H-SMF. This field is only applicable in V-SMF in the home routed roaming scenario for EPS to 5GS interworking and inter-PLMN mobility from HPLMN with I-SMF to VPLMN. |
| SMF Charging Id | OM | This field holds a string that, be provided from the SMF instead of Charging Id, if supported. |
| SMF Home Provided Charging Id | OC | This field holds a string that, be provided from the H-SMF instead of Home Provided Charging Id, if supported. |
| 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]. |
| unauthenticated Flag | 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 |
| IMS Session Information | OC | This field holds the IMS session related information. |
| Caller Information | OC | This field holds the address(es) of calling party. |
| Callee Information | OC | This field holds callee information. |
| 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. |
| S-NSSAI | M | This field holds network slice S-NSSAI the PDU session belongs to in the serving PLMN. |
| HPLMN S-NSSAI | OM | This field holds the HPLMN S-NSSAI the VPLMN S-NSSAI is mapped to, for the PDU session. This field is only applicable in V-SMF for roaming. |
| Alternative S-NSSAI | OC | This field holds the Alternative S-NSSAI replacing the S-NSSAI associated to the PDU session.This field is present when Alternative S-NSSAI is serving the UE. |
| 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. |
| CP CIoT Optimisation indicator  | OC | This field holds the indicator whether control plane optimization CIoT for 5GS is used during the PDU session, if this feature is enabled. |
| 5GS Control Plane Only indicator | OC | This field holds the indicator whether the control plane only is used, i.e., the PDU data only transfers to control plane in case of control plane CIoT optimization. |
| Small data rate control indicator | OC | This field holds the indicator whether the small data rate control for 5GS CIoT is used during the PDU session. |
| Serving Network Function ID  | OC | This field holds the identity of the serving network function. |
| Serving Network Function Information | M | This field holds the Information of the serving network function:- AMF for the PDU sessions served by SMF- in non-roaming- in VPLMN for local breakout and home routed roaming- V-SMF for the PDU session served by H-SMF and V-SMF in HPLMN for home routed roaming- I-SMF for the PDU session served by SMF and I-SMF- ePDG for untrusted non-3GPP access- SGW for EPC/E-UTRAN access.- SGSN for GERAN/UTRAN access |
| 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 CharacteristicsSelection 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, see Annex X.1 of TS 23.228 [600]. |
| Session Stop Indicator | OC | This field indicates to the CHF that the PDU session has been terminated. |
| Redundant TransmissionType | OC | This field holds the redundant transmission Type. |
| PDU Session Pair ID | OC | This field holds an identifier that identify PDU Session that is redundant with this PDU session.This field is only applicable for dual connectivity based end to end redundant user plane paths case. |
| 5G LAN Type Service | OC | This field holds the 5G LAN Type service information, if present, the PDU session is for 5G VN group communication. |
| Internal Group Identifier | M | This field holds the internal group identifier of the 5G VN group. |
| SNPN Information | OC | This field holds information associated to SNPN. |
| SNPN ID | M | This field holds PLMN ID and the NID which identifies the SNPN.The PLMN ID is the same as PLMN ID of the SUPI. |
| Access Type | OC | This field identifies the type of access network for SNPN. It indicates whether the access is via 3GPP or via non-3GPP. |
| N3IWF FQDN | OC | This field holds FQDN which can indicate the domain of the SNPN. |
| 5G Satellite Access Indicator | OC | This field holds the use of 5G Satellite Access.  |
| Satellite backhaul Information | OC | This field contains parameters that can be used to determine that a Satellite Backhaul has been used for the data traffic |
| Satellite Backhaul Category | OC | This field contains the type of the satellite used in the backhaul. For the Edge Computing and SCC-to-SCC communications via satellite backhaul, the type of the satellite is GEO.  |
| GEO Satellite ID | OC | For the Edge Computing and SCC-to-SCC communications via satellite backhaul cases, this field contains the ID of the GEO satellite |
| 5GS Bridge Information | OC | This field holds the bridge information of the 5GS TSN, including bridge ID and port numbers.  |
| Bridge ID | M | This field holds the unique identifier of a 5GS TSN bridge instance for a given PDU session. |
| NW-TT port number | OM | This field holds the port number allocated by the network-side TSN translator (NW-TT) for a given PDU session. |
| DS-TT port number | OM | This field holds the port number allocated by device-side TSN translator (DS-TT) for a given PDU session. |
| 5G Multicast Service  | OC | This field holds the 5G MBS service information, if present, the UE has joined the multicast service. It may have multiple occurrences. |
| MBS Session ID | M | This field holds the MBS session identifier referring to clause 6.5.1 of TS 23.247 [204]. |
| Service-level-AA  | OC | This field holds the upper layer information for authentication and authorization. It indicates the PDU session is for the UAS services referring to clause 8.3.1.16 and 8.3.7.15 of TS 24.501 [207]. |
| Unit Count Inactivity Timer | OC | This field holds the threshold for the time period when no units has been counted by the SMF. It holds either the value configured in SMF, if it is supported, or the value to be used as received from the CHF. A value of zero indicates that this mechanism shall not be used.This field is not applicable to QBC. |
| RAN Secondary RAT Usage Report | OC | This field holds the secondary RAT usage reported from NG-RAN. |
| NG RAN Secondary RAT Type | OM | This field holds the value of Secondary RAT Type, as provided by the NG-RAN.  |
| Qos Flows Usage Reports | OM | 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** |

### 6.2.2 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- |
| Tenant Identifier | IUT- | - | IUT- | - |
| NF Consumer Identification | IUT- | IUT- | IUT- | IUT- |
| NF Functionality | IUT- | IUT- | IUT- | IUT- |
| NF Name | IUT- | IUT- | IUT- | IUT- |
| NF Address | IUT- | IUT- | IUT- | IUT- |
| NF PLMN ID | 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-- | - | - | - |
| Time | IU-- | - | - | - |
| Total Volume | IU-- | - | - | - |
| Uplink Volume | IU-- | - | - | - |
| Downlink Volume | IU-- | - | - | - |
| Used Unit Container | -UT- | - | -UT- | - |
| Service Identifier | -UT- | - | -UT- | - |
| Quota management Indicator | -UT- | - | -UT- | - |
| Triggers | -UT- | - | -UT- | - |
| Trigger Timestamp | -UT- | - | -UT- | - |
| Time | -UT- | - | -UT- | - |
| Total Volume | -UT- | - | -UT- | - |
| Uplink Volume | -UT- | - | -UT- | - |
| Downlink Volume | -UT- | - | -UT- | - |
| Local Sequence Number  | -UT- | - | -UT- | - |
| PDU Container Information  | -UT- | - | -UT- | - |
| UPF ID | IUT- | - | IUT- | - |
| multi-homed PDU address | IUT- | - | IUT- | - |
| PDU Session Charging Information | IUT- | IUT- | IUT- | IUT- |
| Charging Id | IUT- | IUT- | IUT- | IUT- |
| SMF Charging Id | IUT- | IUT- | IUT- | IUT- |
| Home Provided Charging Id | -UT- | -UT- | -UT- | -UT- |
| SMF Home Provided Charging Id | -UT- | -UT- | -UT- | -UT- |
| User Information | IUT- | IUT- | IUT- | IUT- |
| User Location Info | IUT- | IUT- | IUT- | IUT- |
| IMS Session Information | 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- |
| SNPN Information | IUT- | IUT- | IUT- | IUT- |
| 5GS Bridge Information | IUT- | - | - | - |
| 5G Multicast Service | IUT- | IUT- | IUT- | IUT- |
| 5G Satellite Access Indicator | IUT- | IUT- | - | - |
| Satellite backhaul Information | IUT- | IUT- | - | - |
| Service-level-AA  | I--- | I--- | I--- | I--- |
| 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-- |
| Inter-CHF Information | IUT- | IUT- | - | - |
| Remote CHF resource | -UT- | -UT- | - | - |
| Original NF Consumer Id | IUT- | IUT- | - | - |

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 Result Code | IUT- | IUT- | IUT- | IUT- |
| Failed Parameter | IUT- | IUT- | IUT- | IUT- |
| Failure Handling | 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-- |
| Presence Reporting Area Information | IU-- | IU-- | IU-- | IU-- |
| Unit Count Inactivity Timer | IU-- | - | - | - |
| Roaming QBC information | - | IU-- | - | IU-- |
| Roaming Charging Profile | - | IU-- | - | IU-- |
| Inter-CHF Information | IUT- | IUT- | - | - |
| Remote CHF resource | IUT- | IUT- | - | - |

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| --- |
| **End of change** |