**3GPP TSG-SA5 Meeting #154 *S5-241866***

Changsha, China, 15 - 19 April 2024

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **32.291** | **CR** | **0559** | **rev** | **-** | **Current version:** | **18.5.0** |  |
|  | | | | | | | | |
| *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-18 CR 32.291 Correcting bindings for common parts | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Ericsson LM | | | | | | | | | |
| ***Source to TSG:*** | S5 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | TEI18 | | | | |  | ***Date:*** | | | 2024-04-18 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **F** |  | | | | | ***Release:*** | | | Rel-18 |
|  | *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:*** | | The information elements like tenant is used by many CTFs, and is part of the common message fields in TS 32.290. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Moving binding of tenant identifier to the common part along with Retransmission Indicator, One-time Event, One-time Event Type and Supported Features. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Inconsistent handling of binding for common parts may lead to interoperability issues. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 7.1, 7.2, 7.3, 7.4, 7.6, 7.7, 7.9, 7.10, 7.12, 7.14, and 7.15 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 S5-241751 | | | | | | | | |

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| **First change** |

## 7.1 Bindings of common CDR field, Information Element and Resource Attribute

Table 7.1-1: Bindings of common CDR field, Information Element and Resource Attribute

| Information Element | | CDR Field | Resource Attribute | |
| --- | --- | --- | --- | --- |
| Session Identifier | | Charging Session Identifier | /{ChargingDataRef }/ or  /{OfflineChargingDataRef}/ | |
|  | |  | **ChargingDataRequest** | |
| Subscriber Identifier | | Subscriber Identifier | /subscriberIdentifier | |
| Tenant Identifier | | Tenant Identifier | /tenantIdentifier | |
| Charging Id | | Charging Id | /chargingId | |
| Invocation Timestamp | | Invocation Timestamp | /invocationTimeStamp | |
| Invocation Sequence Number | | - | /invocationSequenceNumber | |
| Retransmission Indicator | | - | /retransmissionIndicator | |
| One-time Event | | - | /oneTimeEvent | |
| One-time Event Type | |  | /oneTimeEventType | |
| Triggers | | Triggers | /triggers | |
| Notify URI | | - | /notifyUri | |
| Supported Features | | - | **/**supportedFeatures | |
| Service Specification Information | | Service Specification Information | /serviceSpecificationInfo | |
| NF Consumer Identification | | NF Information | /nfConsumerIdentification | |
| NF Name | | NF Name | /nfConsumerIdentification/nFName | |
| NF Address | | NF Address | /nfConsumerIdentification/nFIPv4Address  /nfConsumerIdentification/nFIPv6Address  /nfConsumerIdentification/nFFqdn | |
| NF PLMN ID | | NF PLMN ID | /nfConsumerIdentification/nFPLMNID | |
| NF Functionality | | NF Functionality | /nfConsumerIdentification/nodeFunctionality | |
| Multiple Unit Usage | | List of Multiple Unit Usage | /multipleUnitUsage | |
| Rating Group | | Rating Group | /multipleUnitUsage/ratingGroup | |
| Requested Unit | | - | /multipleUnitUsage/requestedUnit | |
| Time | | - | /multipleUnitUsage/requestedUnit/time | |
| Total Volume | | - | /multipleUnitUsage/requestedUnit/totalVolume | |
| Uplink Volume | | - | /multipleUnitUsage/requestedUnit/uplinkVolume | |
| Downlink Volume | | - | /multipleUnitUsage/requestedUnit/downlinkVolume | |
| Service Specific Units | | - | /multipleUnitUsage/requestedUnit/serviceSpecificUnits | |
| Allocate Unit | | - | /multipleUnitUsage/allocateUnit | |
| Used Unit Container | | Used Unit Container | /multipleUnitUsage/usedUnitContainer | |
| Service Identifier | | Service Identifier | /multipleUnitUsage/usedUnitContainer/serviceId | |
| Quota management Indicator | | Quota management Indicator  Quota management Indicator Ext | /multipleUnitUsage/usedUnitContainer/quotaManagementIndicator | |
| Triggers | | Triggers | /multipleUnitUsage/usedUnitContainer/triggers | |
| Trigger Timestamp | | Trigger Timestamp | /multipleUnitUsage/usedUnitContainer/triggerTimestamp | |
| Time | | Time | /multipleUnitUsage/usedUnitContainer/time | |
| Total Volume | | Total Volume | /multipleUnitUsage/usedUnitContainer/totalVolume | |
| Uplink Volume | | Uplink Volume | /multipleUnitUsage/usedUnitContainer/uplinkVolume | |
| Downlink Volume | | Downlink Volume | /multipleUnitUsage/usedUnitContainer/downlinkVolume | |
| Service Specific Unit | | Service Specific Unit | /multipleUnitUsage/usedUnitContainer/serviceSpecificUnits | |
| Event Time Stamps | | Event Time Stamps | /multipleUnitUsage/usedUnitContainer/eventTimeStamps | |
| Local Sequence Number | | Local Sequence Number | /multipleUnitUsage/usedUnitContainer/localSequenceNumber | |
| Allocated Unit | | Allocated Unit | /multipleUnitUsage/allocatedUnit | |
|  | |  | **ChargingDataResponse** | |
| Invocation Timestamp | |  | /invocationTimeStamp | |
| Invocation Sequence Number | |  | /invocationSequenceNumber | |
| Session Failover | | - | /sessionFailover | |
| Supported Features | |  | **/**supportedFeatures | |
| Triggers | | - | /triggers | |
| Invocation Result | | - | /invocationResult | |
| Invocation Result code | | - | /invocationResult/error/cause | |
| Failed parameter | | - | /invocationResult/error/invalidParams | |
| Failure Handling | | - | /invocationResult/failureHandling | |
| Multiple Unit Information | | - | /multipleUnitInformation | |
| Result Code | | - | /multipleUnitInformation | |
| Rating Group | | - | /multipleUnitInformation/ratingGroup | |
| Granted Unit | | - | /multipleUnitInformation/grantedUnit | |
| Tariff Time Change | | - | /multipleUnitInformation/grantedUnit/tariffTimeChange | |
| Time | | - | /multipleUnitInformation/grantedUnit/time | |
| Total Volume | | - | /multipleUnitInformation/grantedUnit/totalVolume | |
| Uplink Volume | | - | /multipleUnitInformation/grantedUnit/uplinkVolume | |
| Downlink Volume | | - | /multipleUnitInformation/grantedUnit/downlinkVolume | |
| Service Specific Units | | - | /multipleUnitInformation/grantedUnit/serviceSpecificUnits | |
| Allocated Unit | | - | /multipleUnitInformation/allocatedUnit | |
| Triggers | | - | /multipleUnitInformation/triggers | |
| Validity Time | | - | /multipleUnitInformation/validityTime | |
| Quota Holding Time | | - | /multipleUnitInformation/quotaHoldingTime | |
| Final Unit Indication | | - | /multipleUnitInformation/finalUnitIndication | |
| Time Quota Threshold | | - | /multipleUnitInformation/timeQuotaThreshold | |
| Volume Quota Threshold | | - | /multipleUnitInformation/volumeQuotaThreshold | |
| Unit Quota Threshold | | - | /multipleUnitInformation/unitQuotaThreshold | |

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| **Second change** |

## 7.2 Bindings for 5G data connectivity

Table 7.2-1: Bindings of 5G data connectivity CDR field, Information Element and Resource Attribute

| Information Element | | | | CDR Field | | | | Resource Attribute | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | |  | | | | **ChargingDataRequest** | | | |
| Multiple Unit Usage | | | | List of Multiple Unit Usage | | | | /multipleUnitUsage | | | |
| UPF ID | | | | UPF ID | | | | /multipleUnitUsage/uPFID | | | |
| Multi-homed PDU address | | | | Multi-homed PDU address | | | | /multipleUnitUsage/multihomedPDUAddress | | | |
| Used Unit Container | | | | Used Unit Container | | | | /multipleUnitUsage/usedUnitContainer | | | |
| PDU Container Information | | | | PDU Container Information | | | | /multipleUnitUsage/usedUnitContainer/pDUContainerInformation | | | |
| Time of First Usage | | | | Time of First Usage | | | | /multipleUnitUsage/usedUnitContainer/pDUContainerInformation/timeofFirstUsage | | | |
| Time of Last Usage | | | | Time of Last Usage | | | | /multipleUnitUsage/usedUnitContainer/pDUContainerInformation/timeofLastUsage | | | |
| QoS Information | | | | QoS Information | | | | /multipleUnitUsage/usedUnitContainer/pDUContainerInformation/qoSInformation | | | |
| QoS Characteristics | | | | QoS Characteristics | | | | /multipleUnitUsage/usedUnitContainer/pDUContainerInformation/qoSCharacteristics | | | |
| AF Charging Identifier | | | | AF Charging Identifier | | | | /multipleUnitUsage/usedUnitContainer/pDUContainerInformation/afChargingIdentifier | | | |
| AF Charging Id String | | | | AF Charging Id String | | | | /multipleUnitUsage/usedUnitContainer/pDUContainerInformation/afChargingIdString | | | |
| User Location Information | | | | User Location Information | | | | /multipleUnitUsage/usedUnitContainer/pDUContainerInformation/userLocationInformation | | | |
| UE Time Zone | | | | UE Time Zone | | | | /multipleUnitUsage/usedUnitContainer/pDUContainerInformation/uetimeZone | | | |
| RAT Type | | | | RAT Type | | | | /multipleUnitUsage/usedUnitContainer/pDUContainerInformation/rATType | | | |
| Serving Network Function ID | | | | Serving Network Function ID | | | | /multipleUnitUsage/usedUnitContainer/pDUContainerInformation/servingNodeID | | | |
| Presence Reporting Area Information | | | | Presence Reporting Area  Information | | | | /multipleUnitUsage/usedUnitContainer/pDUContainerInformation/ presenceReportingAreaInformation | | | |
| 3GPP PS Data Off Status | | | | 3GPP PS Data Off Status | | | | /multipleUnitUsage/usedUnitContainer/pDUContainerInformation/3gppPSDataOffStatus | | | |
| MA PDU Steering functionality | | | | MA PDU Steering functionality | | | | /multipleUnitUsage/usedUnitContainer/pDUContainerInformation/mAPDUSteeringFunctionality | | | |
| MA PDU Steering mode | | | | MA PDU Steering mode | | | | /multipleUnitUsage/usedUnitContainer/pDUContainerInformation/mAPDUSteeringMode | | | |
| Sponsor Identity | | | | Sponsor Identity | | | | /multipleUnitUsage/usedUnitContainer/pDUContainerInformation/sponsorIdentity | | | |
| Application Service Provider  Identity | | | | Application Service Provider  Identity | | | | /multipleUnitUsage/usedUnitContainer/pDUContainerInformation/applicationserviceProviderIdentity | | | |
| Charging Rule Base Name | | | | Charging Rule Base Name | | | | /multipleUnitUsage/usedUnitContainer/pDUContainerInformation/chargingRuleBaseName | | | |
| Traffic Forwarding Way | | | | Traffic Forwarding Way | | | | /multipleUnitUsage/usedUnitContainer/pDUContainerInformation/trafficForwardingWay | | | |
| Qos Monitoring Report | | | | Qos Monitoring Report | | | | /multipleUnitUsage/usedUnitContainer/pDUContainerInformation/qosMonitoringReport | | | |
| MBS Session ID | | | | MBS Session ID | | | | /multipleUnitUsage/usedUnitContainer/pDUContainerInformation/mBSSessionID | | | |
| MBS Delivery Method | | | | MBS Delivery Method | | | | /multipleUnitUsage/usedUnitContainer/pDUContainerInformation/mBSDeliveryMethod | | | |
| PDU Session Charging Information | | | | PDU Session Charging Information | | | | /pDUSessionChargingInformation | | | |
| Charging Id | | | | Charging Id | | | | /pDUSessionChargingInformation/chargingId | | | |
| SMF Charging Id | | | | SMF Charging Id | | | | /pDUSessionChargingInformation/sMFchargingId | | | |
| Home Provided ChargingId | | | | Home Provided ChargingId | | | | /pDUSessionChargingInformation/ homeProvidedChargingId | | | |
| SMF Home Provided ChargingId | | | | SMF Home Provided ChargingId | | | | /pDUSessionChargingInformation/ sMFHomeProvidedChargingId | | | |
| User Information | | | | User Information | | | | /pDUSessionChargingInformation/ userInformation | | | |
| User Identifier | | | | User Identifier | | | | /pDUSessionChargingInformation/userInformation/servedGPSI | | | |
| User Equipment Info | | | | User Equipment Info | | | | /pDUSessionChargingInformation/userInformation/ servedPEI | | | |
| Unauthenticated Flag | | | | Unauthenticated Flag | | | | /pDUSessionChargingInformation/userInformation/ unauthenticatedFlag | | | |
| Roamer In Out | | | | Roamer In Out | | | | /pDUSessionChargingInformation/userInformation/ roamerInOut | | | |
| User Location Info | | | | User Location Info | | | | /pDUSessionChargingInformation/ userLocationinfo | | | |
| User Location Time | | | |
| IMS Session Information | | | | Call Information | | | | /pDUSessionChargingInformation/iMSSessionInformation | | | |
| Caller Information | | | | Caller Information | | | | /pDUSessionChargingInformation/iMSSessionInformation/callerInformation | | | |
| Callee Information | | | | Callee Information | | | | /pDUSessionChargingInformation/ iMSSessionInformation/calleeInformation | | | |
| MA PDU Non 3GPP User Location info | | | | MA PDU Non 3GPP User Location info | | | | /pDUSessionChargingInformation/mAPDUNon3GPPUserLocationInfo | | | |
| Non 3GPP User Location Time | | | | Non 3GPP User Location Time | | | | /pDUSessionChargingInformation/non3GPPUserLocationTime | | | |
| MA PDU Non 3GPP User Location Time | | | | MA PDU Non 3GPP User Location Time | | | | /pDUSessionChargingInformation/mAPDUNon3GPPUserLocationTime | | | |
| UE Time Zone | | | | UE Time Zone | | | | /pDUSessionChargingInformation/uEtimeZone | | | |
| Presence Reporting Area  Information | | | | Presence Reporting Area  Information | | | | /pDUSessionChargingInformation/ presenceReportingAreaInformation | | | |
| PDU Session Information | | | | PDU Session Information | | | | /pDUSessionChargingInformation/pduSessionInformation | | | |
| PDU Session ID | | | | PDU Session ID | | | | /pDUSessionChargingInformation/pduSessionInformation/pduSessionID | | | |
| Network Slice Instance  Identifier | | | |  | | | | /pDUSessionChargingInformation/pduSessionInformation/networkSlicingInfo | | | |
| S NSSAI | | | | Network Slice Instance Identifier | | | | /pDUSessionChargingInformation/pduSessionInformation/networkSlicingInfo/sNSSAI | | | |
| HPLMN S NSSAI | | | | HPLMN S NSSAI | | | | /pDUSessionChargingInformation/pduSessionInformation/networkSlicingInfo/hPlmnSNSSAI | | | |
| PDU Type | | | | PDU Type | | | | /pDUSessionChargingInformation /pduSessionInformation/pduType | | | |
| PDU Address | | | | PDU Address | | | | /pDUSessionChargingInformation /pduSessionInformation/pduAddress | | | |
| PDU IPv4 Address | | | | PDU IPv4 Address | | | | /pDUSessionChargingInformation/pduSessionInformation/pduAddress/pduIPv4Address | | | |
| PDU IPv6 Address with  prefix | | | | PDU IPv6 Address with prefix | | | | /pDUSessionChargingInformation/pduSessionInformation/pduAddress/pduIPv6Addresswithprefix | | | |
| PDU Address prefix length | | | | PDU Address prefix length | | | | /pDUSessionChargingInformation /pduSessionInformation/pduAddress/pduAddressprefixlength | | | |
| IPv4 Dynamic Address  Flag | | | | IPv4 Dynamic Address Flag | | | | /pDUSessionChargingInformation /pduSessionInformation/pduAddress/ iPv4dynamicAddressFlag | | | |
| IPv6 Dynamic Address Flag | | | | IPv6 Dynamic Prefix Flag | | | | pDUSessionChargingInformation /pduSessionInformation/pduAddress/ iPv6dynamicPrefixFlag | | | |
| pDUSessionChargingInformation /pduSessionInformation/pduAddress/ addIpv6AddrPrefixList | | | |
| Additional PDU IPv6  Prefixes | | | | Additional PDU IPv6 Prefixes | | | | pDUSessionChargingInformation /pduSessionInformation/pduAddress/ addIpv6AddrPrefixes | | | |
| SSC Mode | | | | SSC Mode | | | | /pDUSessionChargingInformation /pduSessionInformation/sscMode | | | |
| MA PDU session information | | | | MA PDU session information | | | | /pDUSessionChargingInformation /pduSessionInformation/mAPDUSessionInformation | | | |
| MA PDU session indicator | | | | MA PDU session indicator | | | | /pDUSessionChargingInformation /pduSessionInformation/mAPDUSessionInformation/mAPDUSessionIndicator | | | |
| ATSSS capability | | | | ATSSS capability | | | | /pDUSessionChargingInformation /pduSessionInformation/mAPDUSessionInformation/aTSSSCapability | | | |
| SUPI PLMN ID | | | | SUPI PLMN ID | | | | /pDUSessionChargingInformation /pduSessionInformation/hPlmnId | | | |
| Serving Network Function ID | | | | Serving Network Function ID | | | | /pDUSessionChargingInformation /pduSessionInformation/ servingNetworkFunctionID | | | |
| Serving CN PLMN ID | | | | Serving CN PLMN ID | | | | /pDUSessionChargingInformation/pduSessionInformation/servingCNPlmnId | | | |
| RAT Type | | | | RAT Type | | | | /pDUSessionChargingInformation /pduSessionInformation/ratType | | | |
| MA PDU Non 3GPP RAT Type | | | | MA PDU Non 3GPP RAT Type | | | | /pDUSessionChargingInformation /pduSessionInformation/mAPDUNon3GPPRATType | | | |
| Data Network Name Identifier | | | | Data Network Name Identifier | | | | /pDUSessionChargingInformation /pduSessionInformation/dnnid | | | |
| DNN Selection Mode | | | | DNN Selection Mode | | | | /pDUSessionChargingInformation /pduSessionInformation/dNNselectionMode | | | |
| Authorized QoS information | | | | Authorized Qos Information | | | | /pDUSessionChargingInformation /pduSessionInformation/authorized qoSInformation | | | |
| Subscribed QoS Information | | | | Subscribed QoS Information | | | | /pDUSessionChargingInformation /pduSessionInformation/subscribedQoSInformation | | | |
| Authorized Session-AMBR | | | | Authorized Session-AMBR | | | | /pDUSessionChargingInformation /pduSessionInformation/authorizedSessionAMBR | | | |
| Subscribed Session-AMBR | | | | Subscribed Session-AMBR | | | | /pDUSessionChargingInformation /pduSessionInformation/subscribedSessionAMBR | | | |
| Charging Characteristics | | | | Charging Characteristics | | | | /pDUSessionChargingInformation /pduSessionInformation/ chargingCharacteristics | | | |
| Charging Characteristics  Selection Mode | | | | Charging Characteristics Selection Mode | | | | /pDUSessionChargingInformation /pduSessionInformation/chargingCharacteristicsSelectionMode | | | |
| PDU session start Time | | | | PDU session start Time | | | | /pDUSessionChargingInformation /pduSessionInformation/startTime | | | |
| PDU session stop Time | | | | PDU session stop Time | | | | /pDUSessionChargingInformation /pduSessionInformation/stopTime | | | |
| Diagnostics | | | | Diagnostics | | | | /pDUSessionChargingInformation /pduSessionInformation/diagnostics | | | |
| Enhanced Diagnostics | | | | Enhanced Diagnostics | | | | /pDUSessionChargingInformation /pduSessionInformation/enhancedDiagnostics | | | |
| 3GPP PS Data Off Status | | | | 3GPP PS Data Off Status | | | | /pDUSessionChargingInformation /pduSessionInformation/3gppPSDataOffStatus | | | |
| Session Stop Indicator | | | | Session Stop Indicator | | | | /pDUSessionChargingInformation /pduSessionInformation/sessionStopIndicator | | | |
| Redundant Transmission Type | | | | Redundant Transmission Type | | | | /pDUSessionChargingInformation /pduSessionInformation/redundantTransmissionType | | | |
| PDU Session Pair ID | | | | PDU Session Pair ID | | | | /pDUSessionChargingInformation /pduSessionInformation/pDUSessionPairID | | | |
| 5G LAN Type Service | | | | 5G LAN Type Service | | | | /pDUSessionChargingInformation /pduSessionInformation/5GLANTypeService | | | |
| Internal Group Identifier | | | | Internal Group Identifier | | | | /pDUSessionChargingInformation /pduSessionInformation/5GLANTypeService/internalGroupIdentifier | | | |
| SNPN Information | | | | SNPN Information | | | | /pDUSessionChargingInformation /pduSessionInformation/sNPNInformation | | | |
| SNPN ID | | | | SNPN ID | | | | /pDUSessionChargingInformation /pduSessionInformation/sNPNInformation/sNPNID | | | |
| Access Type | | | | Access Type | | | | /pDUSessionChargingInformation /pduSessionInformation/sNPNInformation/accessType | | | |
| N3IWF FQDN | | | | N3IWF FQDN | | | | /pDUSessionChargingInformation /pduSessionInformation/sNPNInformation/Fqdn | | | |
| 5G Multicast Service | | | | 5G Multicast Service | | | | /pDUSessionChargingInformation /pduSessionInformation/5GMulticastService | | | |
| MBS Session Id List | | | | MBS Session ID | | | | /pDUSessionChargingInformation /pduSessionInformation/5GMulticastService/mBSSession ID | | | |
| Satellite Access Indicator | | | | Satellite Access Indicator | | | | /pDUSessionChargingInformation /pduSessionInformation/ satelliteAccessIndicator | | | |
| Satellite Backhaul Information | | | | Satellite Backhaul Information | | | | /pDUSessionChargingInformation /pduSessionInformation/ satelliteBackhaulInformation | | | |
| Satellite Backhaul Category | | | | Satellite Backhaul Category | | | | /pDUSessionChargingInformation /pduSessionInformation/satelliteBackhaulInformation/satelliteBackhaulCategory | | | |
| GEO Satellite ID | | | | GEO Satellite ID | | | | /pDUSessionChargingInformation /pduSessionInformation/satelliteBackhaulInformation/gEOSatelliteID | | | |
| 5GS Bridge Information | | | | 5GS Bridge Information | | | | /pDUSessionChargingInformation /pduSessionInformation/5GSBridgeInformation | | | |
| Bridge ID | | | | Bridge ID | | | | /pDUSessionChargingInformation /pduSessionInformation/5GSBridgeInformation/ bridgeId | | | |
| NW-TT port numbers | | | | NW-TT port numbers | | | | /pDUSessionChargingInformation /pduSessionInformation/5GSBridgeInformation/ nWTTPortNumber | | | |
| DS-TT port number | | | | DS-TT port number | | | | /pDUSessionChargingInformation /pduSessionInformation/5GSBridgeInformation/ dSTTPortNumber | | | |
| Unit Count Inactivity Timer | | | | - | | | | /pDUSessionChargingInformation/unitCountInactivityTimer | | | |
| RAN Secondary RAT Usage Report | | | | RAN Secondary RAT Usage Report | | | | /pDUSessionChargingInformation/rANSecondaryRATUsageReport | | | |
| NG RAN Secondary RAT Type | | | | NG RAN Secondary RAT Type | | | | /pDUSessionChargingInformation/rANSecondaryRATUsageReport/rANSecondaryRATType | | | |
| Qos Flows Usage Reports | | | | Qos Flows Usage Reports | | | | /pDUSessionChargingInformation/rANSecondaryRATUsageReport/qosFlowsUsageReports | | | |
| Roaming QBC information | | | | Roaming QBC information | | | | /roamingQBCInformation | | | |
| Multiple QFI container | | | | Multiple QFI container | | | | /roamingQBCInformation/multipleQFIcontainer | | | |
| Triggers | | | | Triggers | | | | /roamingQBCInformation/multipleQFIcontainer/triggers | | | |
| Trigger Timestamp | | | | Trigger Timestamp | | | | /roamingQBCInformation/multipleQFIcontainer/triggerTimestamp | | | |
| Time | | | | Time | | | | /roamingQBCInformation/multipleQFIcontainer/time | | | |
| Total Volume | | | | Total Volume | | | | /roamingQBCInformation/multipleQFIcontainer/totalVolume | | | |
| Uplink Volume | | | | Uplink Volume | | | | /roamingQBCInformation/multipleQFIcontainer/uplinkVolume | | | |
| Downlink Volume | | | | Downlink Volume | | | | /roamingQBCInformation/multipleQFIcontainer/downlinkVolume | | | |
| Local Sequence Number | | | | Local Sequence Number | | | | /roamingQBCInformation/multipleQFIcontainer/localSequenceNumber | | | |
| QFI Container information | | | | QFI Container information | | | | /roamingQBCInformation/multipleQFIcontainer/qFIContainerInformation | | | |
| QoS Flow Id | | | | QoS Flow Id | | | | /roamingQBCInformation/multipleQFIcontainer/ qFIContainerInformation/qFI | | | |
| Time of First Usage | | | | Time of First Usage | | | | /roamingQBCInformation/multipleQFIcontainer/qFIContainerInformation/ timeofFirstUsage | | | |
| Time of Last Usage | | | | Time of Last Usage | | | | /roamingQBCInformation/multipleQFIcontainer/qFIContainerInformation/timeofLastUsage | | | |
| QoS Information | | | | QoS Information | | | | /roamingQBCInformation/multipleQFIcontainer/qFIContainerInformation/qoSInformation | | | |
| QoS Characteristics | | | | QoS Characteristics | | | | /roamingQBCInformation/multipleQFIcontainer/ qFIContainerInformation/qoSCharacteristics | | | |
| User Location Information | | | | User Location Information | | | | /roamingQBCInformation/multipleQFIcontainer/qFIContainerInformation/ userLocationInformation | | | |
| UE Time Zone | | | | UE Time Zone | | | | /roamingQBCInformation/multipleQFIcontainer/qFIContainerInformation/uetimeZone | | | |
| Presence Reporting Area Information | | | | Presence Reporting Area Information | | | | /roamingQBCInformation/multipleQFIcontainer/qFIContainerInformation/presenceReportingAreaInformation | | | |
| RAT Type | | | | RAT Type | | | | /roamingQBCInformation/multipleQFIcontainer/qFIContainerInformation/rATType | | | |
| Report Time | | | | Report Time | | | | /roamingQBCInformation/multipleQFIcontainer/ qFIContainerInformation/reportTime | | | |
| Serving Network Function ID | | | | Serving Network Function ID | | | | /roamingQBCInformation/multipleQFIcontainer/qFIContainerInformation/ servingNetworkFunctionID | | | |
| 3GPP PS Data Off Status | | | | 3GPP PS Data Off Status | | | | /roamingQBCInformation/multipleQFIcontainer/qFIContainerInformation/3gppPSDataOffStatus | | | |
| EPS bearer Charging Id | | | | EPS bearer Charging Id | | | | /roamingQBCInformation/multipleQFIcontainer/qFIContainerInformation/3gppChargingId | | | |
| Diagnostics | | | | Diagnostics | | | | /roamingQBCInformation/multipleQFIcontainer/qFIContainerInformation/diagnostics | | | |
| Enhanced Diagnostics | | | | Enhanced Diagnostics | | | | /roamingQBCInformation/multipleQFIcontainer/qFIContainerInformation/enhancedDiagnostics | | | |
| UPF ID | | | | UPF ID | | | | /roamingQBCInformation/uPFID | | | |
| Roaming Charging Profile | | | | Roaming Charging Profile | | | | /roamingQBCInformation/roamingChargingProfile | | | |
| Trigger | | | | Trigger | | | | /roamingQBCInformationroamingChargingProfile/trigger | | | |
| Partial record method | | | | Partial record method | | | | /roamingQBCInformation/roamingChargingProfile/partialRecordMethod | | | |
| Inter-CHF information | | | | InterCHF information | | | | /interCHFInformation | | | |
| Remote CHF resource | | | | RemoteCHFResource | | | | /interCHFInformation/remoteCHFResource | | | |
| Original NF Consumer Id | | | | OriginalNFConsumerId | | | | /interCHFInformation/originalNFConsumerId | | | |
|  | | | |  | | | | **ChargingDataResponse** | | | |
| Multiple Unit information | | | | - | | | | /multipleUnitInformation | | | |
| UPF ID | | | | - | | | | /multipleUnitInformation/uPFID | | | |
| PDU Session Charging Information | | | | - | | | | /pDUSessionChargingInformation | | | |
| Presence Reporting Area  Information | | | | - | | | | /pDUSessionChargingInformation/ presenceReportingAreaInformation | | | |
| Unit Count Inactivity Timer | | | | - | | | | /pDUSessionChargingInformation/unitCountInactivityTimer | | | |
| Roaming QBC information | | | | - | | | | /roamingQBCInformation | | | |
| Roaming Charging Profile | | | | - | | | | /roamingQBCInformation/roamingChargingProfile | | | |
| Inter-CHF information | | | | InterCHF information | | | | /interCHFInformation | | | |
| Remote CHF resource | | | | RemoteCHFResource | | | | /interCHFInformation/remoteCHFResource | | | |

|  |
| --- |
| **Third change** |

## 7.3 Bindings for SMS charging

Table 7.3-1: Bindings of CDR field, Information Element and Resource Attribute for SMS charging

| Information Element | CDR Field | Resource Attribute |
| --- | --- | --- |
|  |  | **ChargingDataRequest** |
| SMS Charging Information | SMS Charging Information | /sMSChargingInformation |
| Originator Info | Originator Info | /sMSChargingInformation/originatorInfo |
| Originator SUPI | Originator SUPI | /sMSChargingInformation/originatorInfo/originatorSUPI |
| Originator GPSI | Originator GPSI | /sMSChargingInformation/originatorInfo/originatorGPSI |
| Originator Other Address | Originator Other Address | /sMSChargingInformation/originatorInfo/originatorOtherAddress |
| Originator Received Address | Originator Received Address | /sMSChargingInformation/originatorInfo/originatorReceivedAddress |
| Originator SCCP Address | Originator SCCP Address | /sMSChargingInformation/originatorInfo/originatorSCCPAddress |
| SM Originator Interface | SM Originator Interface | /sMSChargingInformation/originatorInfo/sMOriginatorInterface |
| SM Originator Protocol Id | SM Originator Protocol Id | /sMSChargingInformation/originatorInfo/sMOriginatorProtocolId |
| Recipient Info | Recipient Info | /sMSChargingInformation/recipientInfo |
| Recipient SUPI | Recipient SUPI | /sMSChargingInformation/recipientInfo/recipientSUPI |
| Recipient GPSI | Recipient GPSI | /sMSChargingInformation/recipientInfo/recipientGPSI |
| Recipient Other Address | Recipient Other Address | /sMSChargingInformation/recipientInfo/recipientOtherAddress |
| Recipient Received Address | Recipient Received Address | /sMSChargingInformation/recipientInfo/recipientReceivedAddress |
| Recipient SCCP Address | Recipient SCCP Address | /sMSChargingInformation/recipientInfo/recipientSCCPAddress |
| SM Destination Interface | SM Destination Interface | /sMSChargingInformation/recipientInfo/sMDestinationInterface |
| SM Recipient Protocol Id | SM Recipient Protocol Id | /sMSChargingInformation/recipientInfo/sMrecipientProtocolId |
| User Equipment Info | User Equipment Info | /sMSChargingInformation/userEquipmentInfo |
| Roamer In Out | Roamer In Out | /sMSChargingInformation/userEquipmentInfo/roamerInOut |
| User Location Info | User Location Info | /sMSChargingInformation/userLocationinfo |
| UE Time Zone | UE Time Zone | /sMSChargingInformation/uetimeZone |
| RAT Type | RAT Type | /sMSChargingInformation/rATType |
| SMSC Address | SMSC Address | /sMSChargingInformation/sMSCAddress |
| SM Data Coding Scheme | SM Data Coding Scheme | /sMSChargingInformation/sMDataCodingScheme |
| SM Message Type | SM Message Type | /sMSChargingInformation/sMMessageType |
| SM Reply Path Requested | SM Reply Path Requested | /sMSChargingInformation/sMReplyPathRequested |
| SM User Data Header | SM User Data Header | /sMSChargingInformation/sMUserDataHeader |
| SM Status | SM Status | /sMSChargingInformation/sMStatus |
| SM Discharge Time | SM Discharge Time | /sMSChargingInformation/sMDischargeTime |
| Number of Messages Sent | Number of Messages Sent | /sMSChargingInformation/numberofMessagesSent |
| SM Service Type | SM Service Type | /sMSChargingInformation/sMServiceType |
| SM Sequence Number | SM Sequence Number | /sMSChargingInformation/sMSequenceNumber |
| SMS result | SMS result | /sMSChargingInformation/sMSresult |
| Submission Time | Submission Time | /sMSChargingInformation/submissionTime |
| SM Priority | SM Priority | /sMSChargingInformation/sMPriority |
| Message Reference | Message Reference | /sMSChargingInformation/messageReference |
| Message Size | Message Size | /sMSChargingInformation/messageSize |
| Message Class | Message Class | /sMSChargingInformation/messageClass |
| Delivery Report Requested | Delivery Report Requested | /sMSChargingInformation/deliveryReportRequested |
|  |  | **ChargingDataResponse** |
| - | - | - |

|  |
| --- |
| **Fourth change** |

## 7.4 Bindings for 5G connection and mobility

Table 7.4-1: Bindings of 5G 5G connection and mobility CDR field, Information Element and Resource Attribute

| Information Element | CDR Field | Resource Attribute |
| --- | --- | --- |
|  |  | **ChargingDataRequest** |
| AMF Identifier | AMF Identifier | /aMFId |
| Registration Charging Information | Registration Charging Information | /registrationChargingInformation |
| Registration message type | Registration message type | /registrationChargingInformation/registrationMessagetype |
| User Information | User Information | /registrationChargingInformation/userInformation |
| User Identifier | User Identifier | /registrationChargingInformation/userInformation/servedGPSI |
| User Equipment Info | User Equipment Info | /registrationChargingInformation/userInformation/servedPEI |
| unauthenticatedFlag | unauthenticatedFlag | /registrationChargingInformation/userInformation/unauthenticatedFlag |
| Roamer In Out | Roamer In Out | /registrationChargingInformation/userInformation/roamerInOut |
| User Location Information | User Location Information | /registrationChargingInformation/userLocationinfo |
| PSCell Information | PSCell Information | /registrationChargingInformation/pSCellInformation |
| UE Time Zone | UE Time Zone | /registrationChargingInformation/uetimeZone |
| RAT Type | RAT Type | /registrationChargingInformation/rATType |
| 5GMM Capability | 5GMM Capability | /registrationChargingInformation/5gMMCapability |
| MICO Mode Indication | MICO Mode Indication | /registrationChargingInformation/mICOModeIndication |
| SMS Supported Indication | SMS Supported Indication | /registrationChargingInformation/smsIndication |
| TAI List | TAI List | /registrationChargingInformation/taiList |
| Service Area Restrictions | Service Area Restrictions | /registrationChargingInformation/serviceAreaRestriction |
| Requested NSSAI | Requested NSSAI | /registrationChargingInformation/requestedNSSAI |
| Allowed NSSAI | Allowed NSSAI | /registrationChargingInformation/allowedNssai |
| Rejected NSSAI | Rejected NSSAI | /registrationChargingInformation/rejectedNSSAI |
| NSSAI mapping list | NSSAI mapping list | /registrationChargingInformation/nSSAIMapList |
| AMF UE NGAP ID | AMF UE NGAP ID | /registrationChargingInformation/amfUeNgapId |
| RAN UE NGAP ID | RAN UE NGAP ID | /registrationChargingInformation/ranUeNgapId |
| RAN Node Id | RAN Node Id | /registrationChargingInformation/ranNodeId |
| SNPN ID | SNPN ID | /registrationChargingInformation/sNPNID |
| CAG ID List | CAG ID List | /registrationChargingInformation/cAGIDList |
| Satellite Access Indicator | Satellite Access Indicator | /registrationChargingInformation/satelliteAccessIndicator |
| N2 Connection Charging Information | N2 Connection Charging Information | /n2ConnectionChargingInformation |
| N2 Connection message type | N2 Connection message type | /n2ConnectionChargingInformation/n2ConnectionMessageType |
| User Information | User Information | /registrationChargingInformation/userInformation |
| User Identifier | User Identifier | /n2ConnectionChargingInformation/userInformation/servedGPSI |
| User Equipment Info | User Equipment Info | /n2ConnectionChargingInformation/userInformation/servedPEI |
| unauthenticatedFlag | unauthenticatedFlag | /n2ConnectionChargingInformation/userInformation/unauthenticatedFlag |
| Roamer In Out | Roamer In Out | /n2ConnectionChargingInformation/userInformation/roamerInOut |
| User Location Information | User Location Information | /n2ConnectionChargingInformation/userLocationinfo |
| PSCell Information | PSCell Information | /n2ConnectionChargingInformation/pSCellInformation |
| UE Time Zone | UE Time Zone | /n2ConnectionChargingInformation/uetimeZone |
| RAT Type | RAT Type | /n2ConnectionChargingInformation/rATType |
| AMF UE NGAP ID | AMF UE NGAP ID | /n2ConnectionChargingInformation/amfUeNgapId |
| RAN UE NGAP ID | RAN UE NGAP ID | /n2ConnectionChargingInformation/ranUeNgapId |
| RAN Node Id | RAN Node Id | /n2ConnectionChargingInformation/ranNodeId |
| Mobility Restrictions | Mobility Restrictions | /n2ConnectionChargingInformation/restrictedRatList  /n2ConnectionChargingInformation/forbiddenAreaList  /n2ConnectionChargingInformation/serviceAreaRestriction  /n2ConnectionChargingInformation/restrictedCnList |
| Allowed NSSAI | Allowed NSSAI | /n2ConnectionChargingInformation/allowedNssai |
| NSSAI mapping list | NSSAI mapping list | /n2ConnectionChargingInformation/nSSAIMapList |
| RRC Establishment Cause | RRC Establishment Cause | /n2ConnectionChargingInformation/rrcEstCause |
| Satellite Access Indicator | Satellite Access Indicator | /n2ConnectionChargingInformation/satelliteAccessIndicator |
| Location Reporting Charging Information | Location Reporting Charging Information | /locationReportingChargingInformation |
| N2 Connection message type | N2 Connection message type | /locationReportingChargingInformation/n2ConnectionMessageType |
| User Information | User Information | /locationReportingChargingInformation/userInformation |
| User Identifier | User Identifier | /locationReportingChargingInformation/userInformation/servedGPSI |
| User Equipment Info | User Equipment Info | /locationReportingChargingInformation/userInformation/servedPEI |
| unauthenticatedFlag | unauthenticatedFlag | /locationReportingChargingInformation/userInformation/unauthenticatedFlag |
| Roamer In Out | Roamer In Out | /locationReportingChargingInformation/userInformation/roamerInOut |
| User Location Information | User Location Information | /locationReportingChargingInformation/userLocationinfo |
| PSCell Information | PSCell Information | locationReportingChargingInformation/pSCellInformation |
| UE Time Zone | UE Time Zone | /locationReportingChargingInformation/uetimeZone |
| Presence Reporting Area Information | Presence Reporting Area Information | /locationReportingChargingInformation/presenceReportingAreaInformation |
| RAT Type | RAT Type | /locationReportingChargingInformation/rATType |
| Satellite Access Indicator | Satellite Access Indicator | /locationReportingChargingInformation/satelliteAccessIndicator |
| Inter-CHF information | InterCHF information | /interCHFInformation |
| Remote CHF resource | RemoteCHFResource | /interCHFInformation/remoteCHFResource |
| Original NF Consumer Id | OriginalNFConsumerId | /interCHFInformation/originalNFConsumerId |
|  |  | **ChargingDataResponse** |
| Supported Features | - | **/**supportedFeatures- |
| Location Reporting Charging Information | - | /locationReportingChargingInformation |
| Location reporting message type | - | /locationReportingChargingInformation/locationReportingMessageType |
| Presence Reporting Area  Information | - | /locationReportingChargingInformation /presenceReportingAreaInformation |
| Inter-CHF information | InterCHF information | /interCHFInformation |
| Remote CHF resource | RemoteCHFResource | /interCHFInformation/remoteCHFResource |

|  |
| --- |
| **Fifth change** |

## 7.6 Bindings for NS performance and Analytics charging

Table 7.6-1: Bindings of CDR field, Information Element and Resource Attribute for NS performance and Analytics charging

| Information Element | CDR Field | Resource Attribute |
| --- | --- | --- |
|  |  | **ChargingDataRequest** |
| Multiple Unit Usage | List of Multiple Unit Usage | /multipleUnitUsage |
| Used Unit Container | Used Unit Container | /multipleUnitUsage/usedUnitContainer |
| NSPA Container Information | NSPA Container Information | /multipleUnitUsage/usedUnitContainer/nSPAContanierInformation |
| Uplink Latency | Uplink Latency | /multipleUnitUsage/usedUnitContainer/nSPAContanierInformation/uplinkLatency |
| Downlink Latency | Downlink Latency | /multipleUnitUsage/usedUnitContainer/nSPAContanierInformation/downlinkLatency |
| Uplink Throughput | Uplink Throughput | /multipleUnitUsage/usedUnitContainer/nSPAContanierInformation/uplinkThroughput |
| Downlink Throughput | Downlink Throughput | /multipleUnitUsage/usedUnitContainer/nSPAContanierInformation/downlinkThroughput |
| Maximum packet loss rate UL | Maximum packet loss rate UL | /multipleUnitUsage/usedUnitContainer/nSPAContanierInformation/maximumPacketLossRateUL |
| Maximum packet loss rate DL | Maximum packet loss rate DL | /multipleUnitUsage/usedUnitContainer/nSPAContanierInformation/maximumPacketLossRateDL |
| Service Experience statistics data | Service Experience statistics data | /multipleUnitUsage/usedUnitContainer/nSPAContanierInformation/serviceExperienceStatisticsData |
| The number of PDU sessions | The number of PDU sessions | /multipleUnitUsage/usedUnitContainer/nSPAContanierInformation/theNumberOfPDUSessions |
| The number of Registered Subscribers | The number of Registered Subscribers | /multipleUnitUsage/usedUnitContainer/nSPAContanierInformation/theNumberOfRegisteredSubscribers |
| Load level | Load level | /multipleUnitUsage/usedUnitContainer/nSPAContanierInformation/loadLevel |
| NSPA Charging Information | NSPA Charging Information | /nSPAChargingInformation |
| Single NSSAI | Single NSSAI | /nSPAChargingInformation/singleNSSAI |
|  |  | **ChargingDataResponse** |
| - | - | - |

|  |
| --- |
| **Sixth change** |

## 7.7 Bindings for NS Management charging

Table 7.7-1: Bindings of CDR field, Information Element and Resource Attribute for NS Management charging

| Information Element | CDR Field | Resource Attribute |
| --- | --- | --- |
|  |  | **ChargingDataRequest** |
| MnS Consumer Identifier | MnS Consumer Identifier | /mnSConsumerIdentifier |
| NSM Charging information | NSM Charging information | /nSMChargingInformation |
| Management operation | Management operation | /nSMChargingInformation/managementOperation |
| Identifier of NetworkSlice Instance | Identifier of NetworkSlice Instance | /nSMChargingInformation/idNetworkSliceInstance |
| List of Service profile charging information | List of Service profile charging information | /nSMChargingInformation/listOfserviceProfileChargingInformation |
| Service Profile Id | Service Profile Id | /nSMChargingInformation/serviceProfileIdentifier |
| S-NSSAIs List | S-NSSAIs List | /nSMChargingInformation/sNSSAIList |
| SST | SST | /nSMChargingInformation/sST |
| Latency | Latency | /nSMChargingInformation/latency |
| Availability | Availability | /nSMChargingInformation/availability |
| Resource Sharing Level | Resource Sharing Level | /nSMChargingInformation/resourceSharingLevel |
| Jitter | Jitter | /nSMChargingInformation/jitter |
| Reliability | Reliability | /nSMChargingInformation/reliability |
| Maximum Number of UEs | Maximum Number of UEs | /nSMChargingInformation/maxNumberofUEs |
| Coverage Area | Coverage Area | /nSMChargingInformation/coverageArea |
| UE Mobility Level | UE Mobility Level | /nSMChargingInformation/uEMobilityLevel |
| Delay Tolerance | Delay Tolerance | /nSMChargingInformation/delayToleranceIndicator |
| DL Throughput Per Slice | DL Throughput Per Slice | /nSMChargingInformation/dLThptPerSlice |
| DL Throughput Per UE | DL Throughput Per UE | /nSMChargingInformation/dLThptPerUE |
| UL Throughput Per Slice | UL Throughput Per Slice | /nSMChargingInformation/uLThptPerSlice |
| UL Throughput Per UE | UL Throughput Per UE | /nSMChargingInformation/uLThptPerUE |
| Max Number of PDU sessions | Max Number of PDU sessions | /nSMChargingInformation/maxNumberofPDUsessions |
| KPIs Monitoring list | KPIs Monitoring list | /nSMChargingInformation/kPIMonitoringList |
| Supported Access Technology | Supported Access Technology | /nSMChargingInformation/supportedAccessTechnology |
| V2X Communication Mode | V2X Communication Mode | /nSMChargingInformation/v2XCommunicationModeIndicator |
| Additional service profile charging information | Additional service profile charging information | /nSMChargingInformation/addServiceProfileInfo |
| Management operation status | Management operation status | /nSMChargingInformation/managementOperationStatus |
| Operational state | Operational state | /nSMChargingInformation/managementOperationalState |
| Administrative state | Administrative state | /nSMChargingInformation/managementAdministrativeState |
|  |  | **ChargingDataResponse** |
| - | - | - |

|  |
| --- |
| **Seventh change** |

## 7.9 Bindings for 5G ProSe charging

Table 7.9-1: Bindings of 5G ProSe charging CDR field, Information Element and Resource Attribute

| Information Element | CDR Field | Resource Attribute |
| --- | --- | --- |
|  |  | **ChargingDataRequest** |
| Multiple Unit Usage | List of Multiple Unit Usage | /multipleUnitUsage |
| Used Unit Container | Used Unit Container | /multipleUnitUsage/usedUnitContainer |
| PC5 Container Information | PC5 Container Information | /multipleUnitUsage/usedUnitContainer/pC5 ContainerInformation |
| Coverage Info | Coverage Info | /multipleUnitUsage/usedUnitContainer/pC5 ContainerInformation/coverage Info |
| Radio Parameter Set Info | Radio Parameter Set Info | /multipleUnitUsage/usedUnitContainer/pC5 ContainerInformation/radioParameterSet Info |
| Transmitter Info | Transmitter Info | /multipleUnitUsage/usedUnitContainer/pC5 ContainerInformation/transmitterInfo |
| Time of First Transmission | Time of First Transmission | /multipleUnitUsage/usedUnitContainer/pC5 ContainerInformation/timeOfFirst Transmission |
| Time of First Reception | Time of First Reception | /multipleUnitUsage/usedUnitContainer/pC5 ContainerInformation/TimeOfFirstReception |
| ProSe Information | ProSe Information | /proSeInformation |
| Announcing PLMN ID | Announcing PLMN ID | /proSeInformation/announcingPlmnId |
| Announcing UE HPLMN Identifier | Announcing UE HPLMN Identifier | /proSeInformation/announcingUeHplmnId |
| Announcing UE VPLMN Identifier | Announcing UE VPLMN Identifier | /proSeInformation/announcingUeVplmnId |
| Monitoring UE HPLMN Identifier | Monitoring UE HPLMN Identifier | /proSeInformation/monitoringUeHplmnId |
| Monitoring UE VPLMN Identifier | Monitoring UE VPLMN Identifier | /proSeInformation/monitoringUeVplmnId |
| Discoverer UE HPLMN Identifier | Discoverer UE HPLMN Identifier | /proSeInformation/discovererUeHplmnId |
| Discoverer UE VPLMN Identifier | Discoverer UE VPLMN Identifier | /proSeInformation/discovererUeVplmnId |
| Discoveree UE HPLMjN Identifier | Discoveree UE HPLMN Identifier | /proSeInformation/discovereeUeHplmnId |
| Discoveree UE VPLMN Identifier | Discoveree UE VPLMN Identifier | /proSeInformation/discovereeUeVplmnId |
| Monitored PLMN Identifier | Monitored PLMN Identifier | /proSeInformation/monitoredPlmnIdentifier |
| ProSe Application ID | ProSe Application ID | /proSeInformation/proseApplicationId |
| Application ID | Application ID | /proSeInformation/applicationId |
| Application Specific Data | Application Specific Data | /proSeInformation/applicationSpecificData |
| ProSe functionality | ProSe functionality | /proSeInformation/proSeFunctionality |
| ProSe Event Type | ProSe Event Type | /proSeInformation/proSeEventType |
| Direct Discovery Model | Direct Discovery Model | /proSeInformation/directDiscoveryModel |
| Validity Period | Validity Period | /proSeInformation/validityPeriod |
| Role of UE | Role of UE | /proSeInformation/roleOfUe |
| ProSe Request Timestamp | ProSe Request Timestamp | /proSeInformation/proSeRequestTimestamp |
| PC3 Protocol Cause | PC3 Protocol Cause | /proSeInformation/pC3ProtocolCause |
| Monitoring UE Identifier | Monitoring UE Identifier | /proSeInformation/monitoringUEIdentifier |
| Requestor PLMN Identifier | Requestor PLMN Identifier | /proSeInformation/requestorPlmnIdentifier |
| Requested Application Layer User ID | Requested Application Layer User ID | /proSeInformation/requestedApplicationLayerUserId |
| Requested PLMN Identifier | Requested PLMN Identifier | /proSeInformation/requestedPlmnIdentifier |
| Time Window | Time Window | /proSeInformation/timeWindow |
| Range Class | Range Class | /proSeInformation/rangeClass |
| Proximity Alert Indication | Proximity Alert Indication | /proSeInformation/proximityAlertIndication |
| Proximity Alert Timestamp | Proximity Alert Timestamp | /proSeInformation/proximityAlertTimestamp |
| Proximity Cancellation Timestamp | Proximity Cancellation Timestamp | /proSeInformation/proximityCancellationTimestamp |
| Relay IP address | Relay IP address | /proSeInformation/relayIpAddress |
| ProSe UE-to-Network Relay UE ID | ProSe UE-to-Network Relay UE ID | /proSeInformation/proSeUeToNetworkRelayUeId |
| ProSe Destination Layer-2 ID | ProSe Destination Layer-2 ID | /proSeInformation/proSeDestinationLayer2 Id |
| PFI Container Information | PFI Container Information | /proSeInformation/pFIContainerInformation |
| PC5 QoS Flow ID | PC5 QoS Flow ID | /proSeInformation/pFIContainerInformation/pC5QosFlowId |
| Time of First Usage | Time of First Usage | /proSeInformation/pFIContainerInformation/ timeOfFirstUsage |
| Time of Last Usage | Time of Last Usage | /proSeInformation/pFIContainerInformation/  timeOfLastUsage |
| QoS Information | QoS Information | /proSeInformation/pFIContainerInformation/qosInformation |
| QoS Characteristics | QoS Characteristics | /proSeInformation/pFIContainerInformation/ qoSCharacteristics |
| User Location Information | User Location Information | /proSeInformation/pFIContainerInformation/ userLocationInformation |
| UE Time Zone | UE Time Zone | /proSeInformation/pFIContainerInformation/ueTimeZone |
| Presence Reporting Area Information | Presence Reporting Area Information | /proSeInformation/pFIContainerInformation/ presenceReportingAreaInformation |
| Report Time | Report Time | /proSeInformation/pFIContainerInformation/  reportTime |
| Transmission Data Container | Transmission Data Container | /proSeInformation/transmissionDataContainer |
| Local Sequence Number | Local Sequence Number | /proSeInformation/transmissionDataContainer/localSequenceNumber |
| Change Time | Change Time | /proSeInformation/transmissionDataContainer/changeTime |
| Coverage status | Coverage status | /proSeInformation/transmissionDataContainer/coverageStatus |
| User Location Information | User Location Information | /proSeInformation/transmissionDataContainer/userLocationInformation |
| Data Volume Transmitted | Data Volume Transmitted | /proSeInformation/transmissionDataContainer/dataVolumeTransmitted |
| Change Condition | Change Condition | /proSeInformation/transmissionDataContainer/changeCondition |
| VPLMN Identifier | VPLMN Identifier | /proSeInformation/transmissionDataContainer/vplmnIdentifier |
| Usage Information Report Sequence Number | Usage Information Report Sequence Number | /proSeInformation/transmissionDataContainer/usageInformationReportSequenceNumber |
| Radio Resources Indicator | Radio Resources Indicator | /proSeInformation/transmissionDataContainer/radioResourcesId |
| Radio Frequency | Radio Frequency | /proSeInformation/transmissionDataContainer/radioFrequency |
| PC5 Radio Technology | PC5 Radio Technology | /proSeInformation/transmissionDataContainer/pC5RadioTechnology |
| Reception Data Container | Reception Data Container | /proSeInformation/receptionDataContainer |
| Local Sequence Number | Local Sequence Number | /proSeInformation/receptionDataContainer/ localSequenceNumber |
| Change Time | Change Time | /proSeInformation/receptionDataContainer/ changeTime |
| Coverage Status | Coverage Status | /proSeInformation/receptionDataContainer/ coverageStatus |
| User Location Information | User Location Information | /proSeInformation/receptionDataContainer/ userLocationInformation |
| Data Volume Received | Data Volume Received | /proSeInformation/receptionDataContainer/ dataReceived |
| Change Condition | Change Condition | /proSeInformation/receptionDataContainer/ changeCondition |
| VPLMN Identifier | VPLMN Identifier | /proSeInformation/receptionDataContainer/ vplmnIdentifier |
| Usage Information Report Sequence Number | Usage Information Report Sequence Number | /proSeInformation/receptionDataContainer/ usageInformationReportSequenceNumber |
| Radio Resources Indicator | Radio Resources Indicator | /proSeInformation/receptionDataContainer/ radioResourcesId |
| Radio Frequency | Radio Frequency | /proSeInformation/receptionDataContainer/ radioFrequency |
| PC5 Radio Technology | PC5 Radio Technology | /proSeInformation/receptionDataContainer/ pC5RadioTechnology |
|  |  | **ChargingDataResponse** |

|  |
| --- |
| **Eighth change** |

## 7.10 Bindings for edge computing domain charging

Table 7.10-1: Bindings of edge computing domain charging CDR field, Information Element and Resource Attribute

| Information Element | CDR Field | Resource Attribute |
| --- | --- | --- |
|  |  | **ChargingDataRequest** |
| EAS ID | EAS ID | /eASID |
| EDN ID | EDN ID | /eDNID |
| EAS Provider Identifier | EAS Provider Identifier | /eASProviderIdentifier |
| Edge Enabling Infrastructure Resource Usage Charging Information | Edge Enabling Infrastructure Resource Usage Charging Information | /edgeInfrastructureUsageChargingInformation |
| Mean Virtual CPU Usage | Mean Virtual CPU Usage | /edgeInfrastructureUsageChargingInformation/meanVirtualCPUUsage |
| Mean Virtual Memory Usage | Mean Virtual Memory Usage | /edgeInfrastructureUsageChargingInformation/meanVirtualMemoryUsage |
| Mean Virtual Disk Usage | Mean Virtual Disk Usage | /edgeInfrastructureUsageChargingInformation/meanVirtualDiskUsage |
| Measured Incoming Bytes | Measured Incoming Bytes | /edgeInfrastructureUsageChargingInformation/measuredInBytes |
| Measured Outgoing Bytes | Measured Outgoing Bytes | /edgeInfrastructureUsageChargingInformation/measuredOutBytes |
| Duration Start Time | Duration Start Time | /edgeInfrastructureUsageChargingInformation/durationStartTime |
| Duration End Time | Duration End Time | /edgeInfrastructureUsageChargingInformation/durationEndTime |
| EAS Deployment Charging Information | EAS Deployment Charging Information | /eASDeploymentChargingInformation |
| EAS Deployment Requirements | EAS Deployment Requirements | /eASDeploymentChargingInformation/eASDeploymentRequirements |
| LCM Event Type | LCM Event Type | /eASDeploymentChargingInformation/lCMEventType |
| LCM Start Time | LCM Start Time | /eASDeploymentChargingInformation/lCMStartTime |
| LCM End Time | LCM End Time | /eASDeploymentChargingInformation/lCMEndTime |
| Satellite Backhaul Information | Satellite Backhaul Information | /eASDeploymentChargingInformation/satelliteBackhaulInformation |
| Satellite Backhaul Category | Satellite Backhaul Category | /eASDeploymentChargingInformation/satelliteBackhaulInformation/satelliteBackhaulCategory |
| GEO Satellite ID | GEO Satellite ID | /eASDeploymentChargingInformation/satelliteBackhaulInformation/satelliteBackhaulInformation/gEOSatelliteID |
| Direct Edge Enabling Service Charging Information | Exposure Function API Information | /nEFChargingInformation |
| Exposed Edge Enabling Service Charging Information | Exposure Function API Information | /nEFChargingInformation |
|  |  | **ChargingDataResponse** |

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| **Ninth change** |

## 7.12 Bindings for 5G MBS Session charging

Table 7.12-1: Bindings of CDR field, Information Element and Resource Attribute for 5G MBS Session charging

| Information Element | CDR Field | Resource Attribute |
| --- | --- | --- |
|  |  | **ChargingDataRequest** |
| Multiple Unit Usage | List of Multiple Unit Usage | /multipleUnitUsage |
| MB-UPF ID | MB-UPF ID | /multipleUnitUsage/mBUPFID |
| Used Unit Container | Used Unit Container | /multipleUnitUsage/usedUnitContainer |
| MBS Container Information | MBS Container Information | /multipleUnitUsage/usedUnitContainer/mBSContainerInformation |
| Time of First Usage | Time of First Usage | /multipleUnitUsage/usedUnitContainer/mBSContainerInformation/timeofFirstUsage |
| Time of Last Usage | Time of Last Usage | /multipleUnitUsage/usedUnitContainer/mBSContainerInformation/timeofLastUsage |
| QoS Information | QoS Information | /multipleUnitUsage/usedUnitContainer/mBSContainerInformation/qoSInformation |
| Established Connection Info | Established Connection Info | /multipleUnitUsage/usedUnitContainer/mBSContainerInformation/establishedConnectionInfo |
| MBS Session Charging Information | MBS Session Charging Information | /mBSSessionChargingInformation |
| MBS Session ID | MBS Session ID | /mBSSessionChargingInformation /mBSSessionID |
| MBS Service Type | MBS Service Type | /mBSSessionChargingInformation /mBSServiceType |
| Service Area | Service Area | /mBSSessionChargingInformation /serviceArea |
| MBS Start Time | MBS Start Time | /mBSSessionChargingInformation /mBSStartTime |
| MBS End Time | MBS End Time | /mBSSessionChargingInformation /mBSEndTime |
| Serving Network Function ID | Serving Network Function ID | /mBSSessionChargingInformation /servingNetworkFunctionID |
|  |  | **ChargingDataResponse** |
| Multiple Unit information | - | /multipleUnitInformation |
| MB-UPF ID | - | /multipleUnitInformation/mBUPFID |

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| **Tenth change** |

## 7.14 Bindings for inter-CHF information

Table 7.14-1: Bindings of CDR field, Information Element and Resource Attribute for inter-CHF information

| Information Element | CDR Field | Resource Attribute |
| --- | --- | --- |
|  |  | **ChargingDataRequest** |
| Inter-CHF Information | InterCHFInformation | /interCHFInformation |
| Remote CHF resource | RemoteCHFResource | /interCHFInformation/remoteCHFResource |
| Original NF Consumer Id | OriginalNFConsumerId | /interCHFInformation/originalNFConsumerId |
|  |  | **ChargingDataResponse** |
| Inter-CHF Information | InterCHFInformation | /interCHFInformation |
| Remote CHF resource | RemoteCHFResource | /interCHFInformation/remoteCHFResource |
| Original NF Consumer Id | OriginalNFConsumerId | /interCHFInformation/originalNFConsumerId |

|  |
| --- |
| **Eleventh change** |

## 7.15 Bindings for Network slice admission control

Table 7.15-1: Bindings of Network slice admission control CDR field, Information Element and Resource Attribute

| Information Element | CDR Field | Resource Attribute |
| --- | --- | --- |
|  |  | **ChargingDataRequest** |
| Multiple Unit Usage | List of Multiple Unit Usage | /multipleUnitUsage |
| Allocate Unit | - | /multipleUnitUsage/allocateUnit |
| NSAC Container Information | - | /multipleUnitUsage/allocateUnit/nSACContainerInformation |
| Allocated Unit | Allocated Unit | /multipleUnitUsage/allocatedUnit |
| NSAC Container Information | NSAC Container Information | /multipleUnitUsage/allocatedUnit/nSACContainerInformation |
| NSACF Charging Information | NSACF Charging Information | /nSACFChargingInformation |
| NSAC charging indicator | NSAC charging indicator | /nSACFChargingInformation/nSACChargingIndicator |
|  |  | **ChargingDataResponse** |
| Multiple Unit information | - | /multipleUnitInformation |
| NSAC Container Information | - | /multipleUnitInformation/nSACContainerInformation |
| Allocated Unit | - | /multipleUnitInformation/allocatedUnit |
| NSAC Container Information | - | /multipleUnitInformation/allocatedUnit/nSACContainerInformation |

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| **End of changes** |