**3GPP TSG-SA5 Meeting #162 *S5-*** ***253759***

Goteborg, Sweden, 25 - 29 August 2025

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.3* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **291** | **CR** | **0640** | **rev** | **1** | **Current version:** | **19.3.0** |  |
|  | | | | | | | | |
| *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)*.* | | | | | | | | |
|  | | | | | | | | |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Proposed change affects:*** | UICC apps |  | ME |  | Radio Access Network |  | Core Network | **X** |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | |
| ***Title:*** | Rel-19 CR 32.291 Addition of disaster roaming indication | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Ericsson, Nokia | | | | | | | | | |
| ***Source to TSG:*** | SA5 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | MINT\_Ph2-CH | | | | |  | ***Date:*** | | | 2025-08-15 |
|  |  | | | |  | |  | | |  |
| ***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 can be found in 3GPP [TR 21.900](http://www.3gpp.org/ftp/Specs/html-info/21900.htm). | | | | | | | | *Use one of the following releases: Rel-8 (Release 8) Rel-9 (Release 9) Rel-10 (Release 10) Rel-11 (Release 11) … Rel-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)  Rel-20 (Release 20)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | Addition of disaster roaming changing indication. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Adding of disaster roaming changing indication. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | The disaster roaming charging would be incomplete. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 6.1.6.2.2.7, 6.1.8, 7.2, 7.4, and Forge | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 32.255 CR 0604  TS 32.256 CR 0055 | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | | Forge MR link: <https://forge.3gpp.org/rep/sa5/CH/-/merge_requests/95> at commit 7514e294100bce3a2f5094801d401a3ae2865ac2 | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | | Revision of S5-253591 | | | | | | | | |

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

6.1.6.2.2.7 Type UserInformation

**Table 6.1.6.2.2.7-1: Definition of type UserInformation**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute name** | **Data type** | **P** | **Cardinality** | **Description** | **Applicability** |
| servedGPSI | Gpsi | OC | 0..1 | the Generic Public Subscription Identifier (GPSI) of the served party, if available. |  |
| servedPEI | Pei | OC | 0..1 | the identification of Permanent Equipment Identifier. |  |
| unauthenticatedFlag | boolean | OC | 0..1 | indicates the served SUPI is not authenticated |  |
| roamerInOut | RoamerInOut | OC | 0..1 | In-bound or Out-bound roamer |  |
| disasterRoamingInd | boolean | OC | 0..1 | indicates that the UE is registered for Disaster Roaming service. | disasterRoamingInd |

\* \* \* Next Change \* \* \* \*

6.1.8 Feature negotiation

The optional features in table 6.1.8-1 are defined for the Nchf\_ConvergedCharging API. They shall be negotiated using the extensibility mechanism defined in subclause 6.6 of 3GPP TS 29.500 [299].

**Table 6.1.8-1: Supported Features**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Feature number** | | **Feature Name** | | **Description** | |
| 1 | | CHFCQM | | CHF-controlled quota management i.e. support for temporary offline. | |
| 2 | | AF\_Charging\_Identifier | | Indicates the support of long character strings as charging identifiers. | |
| 3 | | 5GIEPC\_CH | | 5GS interworking with EPC. | |
| 4 | | ATSSS | | This feature indicates support of Access Traffic Steering, Switching, Splitting (ATSSS). | |
| 5 | | ETSUN | | This feature indicates support of Enhancing Topology of SMF and UPF in 5G Networks (ETSUN). | |
| 6 | | EnhancedDiagnostics | | Support the enhanced diagnostics. | |
| 7 | | AMF\_subs\_PRA | | PRA(s) subscription by CHF in AMF. | |
| 8 | | FilterRuleList | | Support of multiple filter rules in the final unit indication. | |
| 9 | | TEI17\_NIESGU | | This feature indicates support of GERAN/UTRAN access. | |
| 10 | | IMS | | This feature indicates support of IP Multimedia Subsystem (IMS). (NOTE 1). | |
| 11 | | QoSMonitoring | | This feature indicates support of QoS Monitoring. | |
| 12 | | Announcement | | This feature indicates support of announcements. (NOTE 1) | |
| 13 | | 5GLAN | | This feature indicates support of 5G LAN-type services. | |
| 14 | | URLLC | | This feature indicates support of URLLC. | |
| 15 | | NotifyInfoResponse | | This feature indicates support of response with information for a notification. | |
| 16 | | ES4xx | | Extended Support of HTTP 400, 403, 404 allowing use of either ChargingDataResponse or ProblemDetails in the response. | |
| 17 | | ES3xx | | Extended Support of HTTP 307 and 308 redirections, an NF that does not support this feature does only support HTTP redirection as specified for 3GPP Release 15 and 16. | |
| 18 | | EdgeComputing | | This feature indicates support of edge computing domain charging. (NOTE 1) | |
| 19 | | 5GSCIoT | | This feature indicates support of 5GS control plane CIoT optimization. | |
| 20 | | SMF\_Charging\_Id | | Indicates the support of strings as SMF charging identifiers. | |
| 21 | | SNPN | | This feature indicates support of Stand-alone Non-Public Network. | |
| 22 | | IDC\_CH | | This feature indicates support of IMS Data Channel charging. | |
| 23 | | 5MBS\_CH | | This feature indicates 5G multicast-broadcast services charging. (NOTE 1) | |
| 24 | | SatelliteAccess | | This feature indicates support of NR satellite access. | |
| 25 | | NSREP | | This feature indicates support of Network slice replacement charging. | |
| 26 | | TSN | | This feature indicates support of time sensitive networking. (NOTE 1) | |
| 27 | | 5GSATB | | This feature indicates support of satellite backhaul. | |
| 28 | | NSAC\_CH | | This feature indicates support of Network slice admission control charging. (NOTE 1) | |
| 29 | | NSSAA | | This feature indicates support of Network slice-specific authentication and authorization charging. (NOTE 1) | |
| 30 | | ProSe | | This feature indicates support of 5G ProSe. (NOTE 1) | |
| 31 | | INTER\_CHF | | This feature indicates support of inter-CHF communication. | |
| 32 | | RangingSL | | This feature indicates support of Ranging and Sidelink Positioning. | |
| 33 | | EE\_NS\_CH | | This feature indicates support of energy information for network slice. | |
| 34 | | AIOT\_API\_CH | | This feature indicates support of Ambient IoT service charging, allowing AIOTF as an API target network function in the northbound API exposure charging. | |
| 35 | | IDC\_APP\_CH | | This feature indicates support of IMS data channel application donwload charging from DCSF. | |
| 36 | | CCF | | This feature indicated support of CAPIF Framework | |
| 38 | | disasterRoamingInd | | This feature indicated support of disaster roaming indication | |
| NOTE 1: The feature is used to indicate a charging domain or subsystem. | | | | | |

\* \* \* Next 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 | |
| Disaster Roaming Indicator | Disaster Roaming Indicator | | /pDUSessionChargingInformation/userInformation/disasterRoamingInd | |
| 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 | Remote CHF resource | | /interCHFInformation/remoteCHFResource | |
| Original NF Consumer Id | Original NF Consumer Id | | /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 | |

\* \* \* Next 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 |
| Disaster Roaming Indicator | Disaster Roaming Indicator | /registrationChargingInformation/userInformation/ /disasterRoamingInd |
| 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 |

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

\*\*\* START OF CHANGE 1 \*\*\*

\*\*\* OpenAPI/TS32291\_Nchf\_ConvergedCharging.yaml \*\*\*

<CODE BEGINS>

openapi: 3.0.0

info:

title: Nchf\_ConvergedCharging

version: 3.3.0-alpha.3

description: |

ConvergedCharging Service © 2025, 3GPP Organizational Partners (ARIB, ATIS, CCSA, ETSI, TSDSI, TTA, TTC).

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externalDocs:

description: >

3GPP TS 32.291 V19.3.0: Telecommunication management; Charging management;

5G system, charging service; Stage 3.

url: 'http://www.3gpp.org/ftp/Specs/archive/32\_series/32.291/'

servers:

- url: '{apiRoot}/nchf-convergedcharging/v3'

variables:

apiRoot:

default: https://example.com

description: apiRoot as defined in subclause 4.4 of 3GPP TS 29.501.

security:

- {}

- oAuth2ClientCredentials:

- nchf-convergedcharging

paths:

/chargingdata:

post:

requestBody:

required: true

content:

application/json:

schema:

$ref: '#/components/schemas/ChargingDataRequest'

responses:

'201':

description: Created

content:

application/json:

schema:

$ref: '#/components/schemas/ChargingDataResponse'

'307':

$ref: 'TS29571\_CommonData.yaml#/components/responses/307'

'308':

$ref: 'TS29571\_CommonData.yaml#/components/responses/308'

'400':

description: Bad request

content:

application/problem+json:

schema:

oneOf:

- $ref: 'TS29571\_CommonData.yaml#/components/schemas/ProblemDetails'

- $ref: '#/components/schemas/ChargingDataResponse'

'401':

$ref: 'TS29571\_CommonData.yaml#/components/responses/401'

'403':

description: Forbidden

content:

application/problem+json:

schema:

oneOf:

- $ref: 'TS29571\_CommonData.yaml#/components/schemas/ProblemDetails'

- $ref: '#/components/schemas/ChargingDataResponse'

'404':

description: Not Found

content:

application/problem+json:

schema:

oneOf:

- $ref: 'TS29571\_CommonData.yaml#/components/schemas/ProblemDetails'

- $ref: '#/components/schemas/ChargingDataResponse'

'405':

$ref: 'TS29571\_CommonData.yaml#/components/responses/405'

'408':

$ref: 'TS29571\_CommonData.yaml#/components/responses/408'

'410':

$ref: 'TS29571\_CommonData.yaml#/components/responses/410'

'411':

$ref: 'TS29571\_CommonData.yaml#/components/responses/411'

'413':

$ref: 'TS29571\_CommonData.yaml#/components/responses/413'

'415':

$ref: 'TS29571\_CommonData.yaml#/components/responses/415'

'429':

$ref: 'TS29571\_CommonData.yaml#/components/responses/429'

'500':

$ref: 'TS29571\_CommonData.yaml#/components/responses/500'

'502':

$ref: 'TS29571\_CommonData.yaml#/components/responses/502'

'503':

$ref: 'TS29571\_CommonData.yaml#/components/responses/503'

'504':

$ref: 'TS29571\_CommonData.yaml#/components/responses/504'

default:

$ref: 'TS29571\_CommonData.yaml#/components/responses/default'

callbacks:

chargingNotification:

'{$request.body#/notifyUri}':

post:

requestBody:

required: true

content:

application/json:

schema:

$ref: '#/components/schemas/ChargingNotifyRequest'

responses:

'200':

description: OK.

content:

application/ json:

schema:

$ref: '#/components/schemas/ChargingNotifyResponse'

'204':

description: 'No Content, Notification was succesfull'

'307':

$ref: 'TS29571\_CommonData.yaml#/components/responses/307'

'308':

$ref: 'TS29571\_CommonData.yaml#/components/responses/308'

'400':

description: Bad request

content:

application/problem+json:

schema:

oneOf:

- $ref: TS29571\_CommonData.yaml#/components/schemas/ProblemDetails

- $ref: '#/components/schemas/ChargingNotifyResponse'

'401':

$ref: 'TS29571\_CommonData.yaml#/components/responses/401'

'403':

$ref: 'TS29571\_CommonData.yaml#/components/responses/403'

'404':

$ref: 'TS29571\_CommonData.yaml#/components/responses/404'

'411':

$ref: 'TS29571\_CommonData.yaml#/components/responses/411'

'413':

$ref: 'TS29571\_CommonData.yaml#/components/responses/413'

'415':

$ref: 'TS29571\_CommonData.yaml#/components/responses/415'

'429':

$ref: 'TS29571\_CommonData.yaml#/components/responses/429'

'500':

$ref: 'TS29571\_CommonData.yaml#/components/responses/500'

'502':

$ref: 'TS29571\_CommonData.yaml#/components/responses/502'

'503':

$ref: 'TS29571\_CommonData.yaml#/components/responses/503'

'504':

$ref: 'TS29571\_CommonData.yaml#/components/responses/504'

default:

$ref: 'TS29571\_CommonData.yaml#/components/responses/default'

'/chargingdata/{ChargingDataRef}/update':

post:

requestBody:

required: true

content:

application/json:

schema:

$ref: '#/components/schemas/ChargingDataRequest'

parameters:

- name: ChargingDataRef

in: path

description: a unique identifier for a charging data resource in a PLMN

required: true

schema:

type: string

responses:

'200':

description: OK. Updated Charging Data resource is returned

content:

application/json:

schema:

$ref: '#/components/schemas/ChargingDataResponse'

'307':

$ref: 'TS29571\_CommonData.yaml#/components/responses/307'

'308':

$ref: 'TS29571\_CommonData.yaml#/components/responses/308'

'400':

description: Bad request

content:

application/problem+json:

schema:

oneOf:

- $ref: 'TS29571\_CommonData.yaml#/components/schemas/ProblemDetails'

- $ref: '#/components/schemas/ChargingDataResponse'

'401':

$ref: 'TS29571\_CommonData.yaml#/components/responses/401'

'403':

description: Forbidden

content:

application/problem+json:

schema:

oneOf:

- $ref: 'TS29571\_CommonData.yaml#/components/schemas/ProblemDetails'

- $ref: '#/components/schemas/ChargingDataResponse'

'404':

description: Not Found

content:

application/problem+json:

schema:

oneOf:

- $ref: 'TS29571\_CommonData.yaml#/components/schemas/ProblemDetails'

- $ref: '#/components/schemas/ChargingDataResponse'

'405':

$ref: 'TS29571\_CommonData.yaml#/components/responses/405'

'408':

$ref: 'TS29571\_CommonData.yaml#/components/responses/408'

'410':

$ref: 'TS29571\_CommonData.yaml#/components/responses/410'

'411':

$ref: 'TS29571\_CommonData.yaml#/components/responses/411'

'413':

$ref: 'TS29571\_CommonData.yaml#/components/responses/413'

'415':

$ref: 'TS29571\_CommonData.yaml#/components/responses/415'

'429':

$ref: 'TS29571\_CommonData.yaml#/components/responses/429'

'500':

$ref: 'TS29571\_CommonData.yaml#/components/responses/500'

'502':

$ref: 'TS29571\_CommonData.yaml#/components/responses/502'

'503':

$ref: 'TS29571\_CommonData.yaml#/components/responses/503'

'504':

$ref: 'TS29571\_CommonData.yaml#/components/responses/504'

default:

$ref: 'TS29571\_CommonData.yaml#/components/responses/default'

'/chargingdata/{ChargingDataRef}/release':

post:

requestBody:

required: true

content:

application/json:

schema:

$ref: '#/components/schemas/ChargingDataRequest'

parameters:

- name: ChargingDataRef

in: path

description: a unique identifier for a charging data resource in a PLMN

required: true

schema:

type: string

responses:

'204':

description: No Content.

'307':

$ref: 'TS29571\_CommonData.yaml#/components/responses/307'

'308':

$ref: 'TS29571\_CommonData.yaml#/components/responses/308'

'400':

$ref: 'TS29571\_CommonData.yaml#/components/responses/400'

'401':

$ref: 'TS29571\_CommonData.yaml#/components/responses/401'

'403':

$ref: 'TS29571\_CommonData.yaml#/components/responses/403'

'404':

description: Not Found

content:

application/problem+json:

schema:

oneOf:

- $ref: 'TS29571\_CommonData.yaml#/components/schemas/ProblemDetails'

- $ref: '#/components/schemas/ChargingDataResponse'

'410':

$ref: 'TS29571\_CommonData.yaml#/components/responses/410'

'411':

$ref: 'TS29571\_CommonData.yaml#/components/responses/411'

'413':

$ref: 'TS29571\_CommonData.yaml#/components/responses/413'

'415':

$ref: 'TS29571\_CommonData.yaml#/components/responses/415'

'429':

$ref: 'TS29571\_CommonData.yaml#/components/responses/429'

'500':

$ref: 'TS29571\_CommonData.yaml#/components/responses/500'

'502':

$ref: 'TS29571\_CommonData.yaml#/components/responses/502'

'503':

$ref: 'TS29571\_CommonData.yaml#/components/responses/503'

'504':

$ref: 'TS29571\_CommonData.yaml#/components/responses/504'

default:

$ref: 'TS29571\_CommonData.yaml#/components/responses/default'

components:

securitySchemes:

oAuth2ClientCredentials:

type: oauth2

flows:

clientCredentials:

tokenUrl: '{nrfApiRoot}/oauth2/token'

scopes:

nchf-convergedcharging: Access to the Nchf\_ConvergedCharging API

schemas:

ChargingDataRequest:

type: object

properties:

subscriberIdentifier:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Supi'

tenantIdentifier:

type: string

chargingId:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/ChargingId'

mnSConsumerIdentifier:

type: string

nfConsumerIdentification:

$ref: '#/components/schemas/NFIdentification'

invocationTimeStamp:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/DateTime'

invocationSequenceNumber:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Uint32'

retransmissionIndicator:

type: boolean

oneTimeEvent:

type: boolean

oneTimeEventType:

$ref: '#/components/schemas/oneTimeEventType'

notifyUri:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Uri'

supportedFeatures:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/SupportedFeatures'

serviceSpecificationInfo:

type: string

multipleUnitUsage:

type: array

items:

$ref: '#/components/schemas/MultipleUnitUsage'

minItems: 0

triggers:

type: array

items:

$ref: '#/components/schemas/Trigger'

minItems: 0

easid:

type: string

ednid:

type: string

eASProviderIdentifier:

type: string

aMFId:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/AmfId'

pDUSessionChargingInformation:

$ref: '#/components/schemas/PDUSessionChargingInformation'

roamingQBCInformation:

$ref: '#/components/schemas/RoamingQBCInformation'

sMSChargingInformation:

$ref: '#/components/schemas/SMSChargingInformation'

nEFChargingInformation:

$ref: '#/components/schemas/NEFChargingInformation'

registrationChargingInformation:

$ref: '#/components/schemas/RegistrationChargingInformation'

n2ConnectionChargingInformation:

$ref: '#/components/schemas/N2ConnectionChargingInformation'

locationReportingChargingInformation:

$ref: '#/components/schemas/LocationReportingChargingInformation'

nSPAChargingInformation:

$ref: '#/components/schemas/NSPAChargingInformation'

nSMChargingInformation:

$ref: '#/components/schemas/NSMChargingInformation'

mMTelChargingInformation:

$ref: '#/components/schemas/MMTelChargingInformation'

iMSChargingInformation:

$ref: '#/components/schemas/IMSChargingInformation'

edgeInfrastructureUsageChargingInformation:

$ref: '#/components/schemas/EdgeInfrastructureUsageChargingInformation'

eASDeploymentChargingInformation:

$ref: '#/components/schemas/EASDeploymentChargingInformation'

directEdgeEnablingServiceChargingInformation:

$ref: '#/components/schemas/NEFChargingInformation'

exposedEdgeEnablingServiceChargingInformation:

$ref: '#/components/schemas/NEFChargingInformation'

proSeChargingInformation:

$ref: '#/components/schemas/ProseChargingInformation'

mMSChargingInformation:

$ref: '#/components/schemas/MMSChargingInformation'

mBSSessionChargingInformation:

$ref: '#/components/schemas/MBSSessionChargingInformation'

tSNChargingInformation:

$ref: '#/components/schemas/TSNChargingInformation'

interCHFInformation:

$ref: '#/components/schemas/InterCHFInformation'

nSACFChargingInformation:

$ref: '#/components/schemas/NSACFChargingInformation'

nSSAAChargingInformation:

$ref: '#/components/schemas/NSSAAChargingInformation'

rangingSLChargingInformation:

$ref: '#/components/schemas/RangingSLChargingInformation'

lCSInformation:

$ref: '#/components/schemas/LCSInformation'

required:

- nfConsumerIdentification

- invocationTimeStamp

- invocationSequenceNumber

ChargingDataResponse:

type: object

properties:

invocationTimeStamp:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/DateTime'

invocationSequenceNumber:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Uint32'

invocationResult:

$ref: '#/components/schemas/InvocationResult'

sessionFailover:

$ref: '#/components/schemas/SessionFailover'

supportedFeatures:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/SupportedFeatures'

multipleUnitInformation:

type: array

items:

$ref: '#/components/schemas/MultipleUnitInformation'

minItems: 0

triggers:

type: array

items:

$ref: '#/components/schemas/Trigger'

minItems: 0

pDUSessionChargingInformation:

$ref: '#/components/schemas/PDUSessionChargingInformation'

roamingQBCInformation:

$ref: '#/components/schemas/RoamingQBCInformation'

locationReportingChargingInformation:

$ref: '#/components/schemas/LocationReportingChargingInformation'

mBSSessionChargingInformation:

$ref: '#/components/schemas/MBSSessionChargingInformation'

interCHFInformation:

$ref: '#/components/schemas/InterCHFInformation'

required:

- invocationTimeStamp

- invocationSequenceNumber

ChargingNotifyRequest:

type: object

properties:

notificationType:

$ref: '#/components/schemas/NotificationType'

reauthorizationDetails:

type: array

items:

$ref: '#/components/schemas/ReauthorizationDetails'

minItems: 0

required:

- notificationType

ChargingNotifyResponse:

type: object

properties:

invocationResult:

$ref: '#/components/schemas/InvocationResult'

NFIdentification:

type: object

properties:

nFName:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/NfInstanceId'

nFIPv4Address:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Ipv4Addr'

nFIPv6Address:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Ipv6Addr'

nFPLMNID:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/PlmnId'

nodeFunctionality:

$ref: '#/components/schemas/NodeFunctionality'

nFFqdn:

type: string

required:

- nodeFunctionality

MultipleUnitUsage:

type: object

properties:

ratingGroup:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/RatingGroup'

requestedUnit:

$ref: '#/components/schemas/RequestedUnit'

allocateUnit:

$ref: '#/components/schemas/AllocateUnit'

usedUnitContainer:

type: array

items:

$ref: '#/components/schemas/UsedUnitContainer'

minItems: 0

allocatedUnit:

$ref: '#/components/schemas/AllocatedUnit'

uPFID:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/NfInstanceId'

multihomedPDUAddress:

$ref: '#/components/schemas/PDUAddress'

mBUPFID:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/NfInstanceId'

required:

- ratingGroup

InvocationResult:

type: object

properties:

error:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/ProblemDetails'

failureHandling:

$ref: '#/components/schemas/FailureHandling'

Trigger:

type: object

properties:

triggerType:

$ref: '#/components/schemas/TriggerType'

triggerCategory:

$ref: '#/components/schemas/TriggerCategory'

timeLimit:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/DurationSec'

volumeLimit:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Uint32'

volumeLimit64:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Uint64'

eventLimit:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Uint32'

maxNumberOfccc:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Uint32'

tariffTimeChange:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/DateTime'

required:

- triggerCategory

MultipleUnitInformation:

type: object

properties:

resultCode:

$ref: '#/components/schemas/ResultCode'

ratingGroup:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/RatingGroup'

grantedUnit:

$ref: '#/components/schemas/GrantedUnit'

allocatedUnit:

$ref: '#/components/schemas/AllocatedUnit'

triggers:

type: array

items:

$ref: '#/components/schemas/Trigger'

minItems: 0

validityTime:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/DurationSec'

quotaHoldingTime:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/DurationSec'

finalUnitIndication:

$ref: '#/components/schemas/FinalUnitIndication'

timeQuotaThreshold:

type: integer

volumeQuotaThreshold:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Uint64'

unitQuotaThreshold:

type: integer

uPFID:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/NfInstanceId'

announcementInformation:

$ref: '#/components/schemas/AnnouncementInformation'

mBUPFID:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/NfInstanceId'

required:

- ratingGroup

RequestedUnit:

type: object

properties:

time:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Uint32'

totalVolume:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Uint64'

uplinkVolume:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Uint64'

downlinkVolume:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Uint64'

serviceSpecificUnits:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Uint64'

UsedUnitContainer:

type: object

properties:

serviceId:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/ServiceId'

quotaManagementIndicator:

$ref: '#/components/schemas/QuotaManagementIndicator'

triggers:

type: array

items:

$ref: '#/components/schemas/Trigger'

minItems: 0

triggerTimestamp:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/DateTime'

time:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Uint32'

totalVolume:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Uint64'

uplinkVolume:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Uint64'

downlinkVolume:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Uint64'

serviceSpecificUnits:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Uint64'

eventTimeStamps:

type: array

items:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/DateTime'

minItems: 0

localSequenceNumber:

type: integer

pDUContainerInformation:

$ref: '#/components/schemas/PDUContainerInformation'

nSPAContainerInformation:

$ref: '#/components/schemas/NSPAContainerInformation'

pC5ContainerInformation:

$ref: '#/components/schemas/PC5ContainerInformation'

mBSContainerInformation:

$ref: '#/components/schemas/MBSContainerInformation'

required:

- localSequenceNumber

AllocateUnit:

type: object

properties:

allocateUnitIndicator:

$ref: '#/components/schemas/AllocateUnitIndicator'

nSACContainerInformation:

$ref: '#/components/schemas/NSACContainerInformation'

AllocatedUnit:

type: object

properties:

quotaManagementIndicator:

$ref: '#/components/schemas/QuotaManagementIndicator'

triggers:

type: array

items:

$ref: '#/components/schemas/Trigger'

minItems: 0

triggerTimestamp:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/DateTime'

localSequenceNumber:

type: integer

nSACContainerInformation:

$ref: '#/components/schemas/NSACContainerInformation'

required:

- localSequenceNumber

GrantedUnit:

type: object

properties:

tariffTimeChange:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/DateTime'

time:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Uint32'

totalVolume:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Uint64'

uplinkVolume:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Uint64'

downlinkVolume:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Uint64'

serviceSpecificUnits:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Uint64'

FinalUnitIndication:

type: object

properties:

finalUnitAction:

$ref: '#/components/schemas/FinalUnitAction'

restrictionFilterRule:

$ref: '#/components/schemas/IPFilterRule'

restrictionFilterRuleList:

type: array

items:

$ref: '#/components/schemas/IPFilterRule'

minItems: 1

filterId:

type: string

filterIdList:

type: array

items:

type: string

minItems: 1

redirectServer:

$ref: '#/components/schemas/RedirectServer'

required:

- finalUnitAction

RedirectServer:

type: object

properties:

redirectAddressType:

$ref: '#/components/schemas/RedirectAddressType'

redirectServerAddress:

type: string

required:

- redirectAddressType

- redirectServerAddress

ReauthorizationDetails:

type: object

properties:

serviceId:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/ServiceId'

ratingGroup:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/RatingGroup'

quotaManagementIndicator:

$ref: '#/components/schemas/QuotaManagementIndicator'

PDUSessionChargingInformation:

type: object

properties:

chargingId:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/ChargingId'

sMFchargingId:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/SmfChargingId'

homeProvidedChargingId:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/ChargingId'

sMFHomeProvidedChargingId:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/SmfChargingId'

userInformation:

$ref: '#/components/schemas/UserInformation'

userLocationinfo:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/UserLocation'

iMSSessionInformation:

$ref: 'TS29512\_Npcf\_SMPolicyControl.yaml#/components/schemas/CallInfo'

mAPDUNon3GPPUserLocationInfo:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/UserLocation'

non3GPPUserLocationTime:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/DateTime'

mAPDUNon3GPPUserLocationTime:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/DateTime'

presenceReportingAreaInformation:

type: object

additionalProperties:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/PresenceInfo'

minProperties: 0

uetimeZone:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/TimeZone'

pduSessionInformation:

$ref: '#/components/schemas/PDUSessionInformation'

unitCountInactivityTimer:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/DurationSec'

rANSecondaryRATUsageReport:

$ref: '#/components/schemas/RANSecondaryRATUsageReport'

UserInformation:

type: object

properties:

servedGPSI:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Gpsi'

servedPEI:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Pei'

unauthenticatedFlag:

type: boolean

roamerInOut:

$ref: '#/components/schemas/RoamerInOut'

disasterRoamingInd:

type: boolean

PDUSessionInformation:

type: object

properties:

networkSlicingInfo:

$ref: '#/components/schemas/NetworkSlicingInfo'

pduSessionID:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/PduSessionId'

pduType:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/PduSessionType'

sscMode:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/SscMode'

hPlmnId:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/PlmnId'

servingNetworkFunctionID:

$ref: '#/components/schemas/ServingNetworkFunctionID'

ratType:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/RatType'

mAPDUNon3GPPRATType:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/RatType'

dnnId:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Dnn'

dnnSelectionMode:

$ref: '#/components/schemas/dnnSelectionMode'

chargingCharacteristics:

type: string

pattern: '^[0-9a-fA-F]{1,4}$'

chargingCharacteristicsSelectionMode:

$ref: '#/components/schemas/ChargingCharacteristicsSelectionMode'

startTime:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/DateTime'

stopTime:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/DateTime'

3gppPSDataOffStatus:

$ref: '#/components/schemas/3GPPPSDataOffStatus'

sessionStopIndicator:

type: boolean

pduAddress:

$ref: '#/components/schemas/PDUAddress'

diagnostics:

$ref: '#/components/schemas/Diagnostics'

authorizedQoSInformation:

$ref: 'TS29512\_Npcf\_SMPolicyControl.yaml#/components/schemas/AuthorizedDefaultQos'

subscribedQoSInformation:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/SubscribedDefaultQos'

authorizedSessionAMBR:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Ambr'

subscribedSessionAMBR:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Ambr'

servingCNPlmnId:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/PlmnId'

mAPDUSessionInformation:

$ref: '#/components/schemas/MAPDUSessionInformation'

enhancedDiagnostics:

$ref: '#/components/schemas/EnhancedDiagnostics5G'

redundantTransmissionType:

$ref: '#/components/schemas/RedundantTransmissionType'

pDUSessionPairID:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Uint32'

cpCIoTOptimisationIndicator:

type: boolean

5GSControlPlaneOnlyIndicator:

type: boolean

smallDataRateControlIndicator:

type: boolean

5GLANTypeService:

$ref: '#/components/schemas/5GLANTypeService'

sNPNInformation:

$ref: '#/components/schemas/SNPNInformation'

5GMulticastService:

$ref: '#/components/schemas/5GMulticastService'

5GSBridgeInformation:

$ref: '#/components/schemas/5GSBridgeInformation'

satelliteAccessIndicator:

type: boolean

satelliteBackhaulInformation:

$ref: '#/components/schemas/SatelliteBackhaulInformation'

required:

- pduSessionID

- dnnId

PDUContainerInformation:

type: object

properties:

timeofFirstUsage:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/DateTime'

timeofLastUsage:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/DateTime'

qoSInformation:

$ref: 'TS29512\_Npcf\_SMPolicyControl.yaml#/components/schemas/QosData'

qoSCharacteristics:

$ref: 'TS29512\_Npcf\_SMPolicyControl.yaml#/components/schemas/QosCharacteristics'

afChargingIdentifier:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/ChargingId'

afChargingIdString:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/ApplicationChargingId'

userLocationInformation:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/UserLocation'

uetimeZone:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/TimeZone'

rATType:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/RatType'

servingNodeID:

type: array

items:

$ref: '#/components/schemas/ServingNetworkFunctionID'

minItems: 0

presenceReportingAreaInformation:

type: object

additionalProperties:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/PresenceInfo'

minProperties: 0

3gppPSDataOffStatus:

$ref: '#/components/schemas/3GPPPSDataOffStatus'

sponsorIdentity:

type: string

applicationserviceProviderIdentity:

type: string

chargingRuleBaseName:

type: string

mAPDUSteeringFunctionality:

$ref: 'TS29512\_Npcf\_SMPolicyControl.yaml#/components/schemas/SteeringFunctionality'

mAPDUSteeringMode:

$ref: 'TS29512\_Npcf\_SMPolicyControl.yaml#/components/schemas/SteeringMode'

trafficForwardingWay:

$ref: '#/components/schemas/TrafficForwardingWay'

qosMonitoringReport:

type: array

items:

$ref: '#/components/schemas/QosMonitoringReport'

minItems: 0

mBSSessionID:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/MbsSessionId'

mBSDeliveryMethod:

$ref: '#/components/schemas/MbsDeliveryMethod'

NSPAContainerInformation:

type: object

properties:

uplinkLatency:

type: integer

downlinkLatency:

type: integer

uplinkThroughput:

$ref: '#/components/schemas/Throughput'

downlinkThroughput:

$ref: '#/components/schemas/Throughput'

maximumPacketLossRateUL:

type: integer

maximumPacketLossRateDL:

type: integer

serviceExperienceStatisticsData:

$ref: 'TS29520\_Nnwdaf\_EventsSubscription.yaml#/components/schemas/ServiceExperienceInfo'

theNumberOfPDUSessions:

type: integer

theNumberOfRegisteredSubscribers:

type: integer

loadLevel:

$ref: 'TS29520\_Nnwdaf\_EventsSubscription.yaml#/components/schemas/NsiLoadLevelInfo'

estimatedEnergyConsumption:

type: integer

NSPAChargingInformation:

type: object

properties:

singleNSSAI:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Snssai'

required:

- singleNSSAI

NetworkSlicingInfo:

type: object

properties:

sNSSAI:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Snssai'

hPlmnSNSSAI:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Snssai'

alternativeSNSSAI:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Snssai'

required:

- sNSSAI

PDUAddress:

type: object

properties:

pduIPv4Address:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Ipv4Addr'

pduIPv6AddresswithPrefix:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Ipv6Addr'

pduAddressprefixlength:

type: integer

iPv4dynamicAddressFlag:

type: boolean

iPv6dynamicPrefixFlag:

type: boolean

addIpv6AddrPrefixes:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Ipv6Prefix'

addIpv6AddrPrefixList:

type: array

items:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Ipv6Prefix'

ServingNetworkFunctionID:

type: object

properties:

servingNetworkFunctionInformation:

$ref: '#/components/schemas/NFIdentification'

aMFId:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/AmfId'

required:

- servingNetworkFunctionInformation

RoamingQBCInformation:

type: object

properties:

multipleQFIcontainer:

type: array

items:

$ref: '#/components/schemas/MultipleQFIcontainer'

minItems: 0

uPFID: # Included for backwards compatibility and

# can be included based on operators requirement

$ref: 'TS29571\_CommonData.yaml#/components/schemas/NfInstanceId'

roamingChargingProfile:

$ref: '#/components/schemas/RoamingChargingProfile'

MultipleQFIcontainer:

type: object

properties:

triggers:

type: array

items:

$ref: '#/components/schemas/Trigger'

minItems: 0

triggerTimestamp:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/DateTime'

time:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Uint32'

totalVolume:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Uint64'

uplinkVolume:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Uint64'

downlinkVolume:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Uint64'

localSequenceNumber:

type: integer

qFIContainerInformation:

$ref: '#/components/schemas/QFIContainerInformation'

required:

- localSequenceNumber

QFIContainerInformation:

type: object

properties:

qFI:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Qfi'

reportTime:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/DateTime'

timeofFirstUsage:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/DateTime'

timeofLastUsage:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/DateTime'

qoSInformation:

$ref: 'TS29512\_Npcf\_SMPolicyControl.yaml#/components/schemas/QosData'

qoSCharacteristics:

$ref: 'TS29512\_Npcf\_SMPolicyControl.yaml#/components/schemas/QosCharacteristics'

userLocationInformation:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/UserLocation'

uetimeZone:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/TimeZone'

presenceReportingAreaInformation:

type: object

additionalProperties:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/PresenceInfo'

minProperties: 0

rATType:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/RatType'

servingNetworkFunctionID:

type: array

items:

$ref: '#/components/schemas/ServingNetworkFunctionID'

minItems: 0

3gppPSDataOffStatus:

$ref: '#/components/schemas/3GPPPSDataOffStatus'

3gppChargingId:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/ChargingId'

diagnostics:

$ref: '#/components/schemas/Diagnostics'

enhancedDiagnostics:

type: array

items:

type: string

required:

- reportTime

RoamingChargingProfile:

type: object

properties:

triggers:

type: array

items:

$ref: '#/components/schemas/Trigger'

minItems: 0

partialRecordMethod:

$ref: '#/components/schemas/PartialRecordMethod'

SMSChargingInformation:

type: object

properties:

originatorInfo:

$ref: '#/components/schemas/OriginatorInfo'

recipientInfo:

type: array

items:

$ref: '#/components/schemas/RecipientInfo'

minItems: 0

userEquipmentInfo:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Pei'

roamerInOut:

$ref: '#/components/schemas/RoamerInOut'

userLocationinfo:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/UserLocation'

uetimeZone:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/TimeZone'

rATType:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/RatType'

sMSCAddress:

type: string

sMDataCodingScheme:

type: integer

sMMessageType:

$ref: '#/components/schemas/SMMessageType'

sMReplyPathRequested:

$ref: '#/components/schemas/ReplyPathRequested'

sMUserDataHeader:

type: string

pattern: '^[0-9a-fA-F]+$'

sMStatus:

type: string

pattern: '^[0-9a-fA-F]+$'

sMDischargeTime:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/DateTime'

numberofMessagesSent:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Uint32'

sMServiceType:

$ref: '#/components/schemas/SMServiceType'

sMSequenceNumber:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Uint32'

sMSresult:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Uint32'

submissionTime:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/DateTime'

sMPriority:

$ref: '#/components/schemas/SMPriority'

messageReference:

type: string

messageSize:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Uint32'

messageClass:

$ref: '#/components/schemas/MessageClass'

deliveryReportRequested:

$ref: '#/components/schemas/DeliveryReportRequested'

OriginatorInfo:

type: object

properties:

originatorSUPI:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Supi'

originatorGPSI:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Gpsi'

originatorOtherAddress:

$ref: '#/components/schemas/SMAddressInfo'

originatorReceivedAddress:

$ref: '#/components/schemas/SMAddressInfo'

originatorSCCPAddress:

type: string

sMOriginatorInterface:

$ref: '#/components/schemas/SMInterface'

sMOriginatorProtocolId:

type: string

RecipientInfo:

type: object

properties:

recipientSUPI:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Supi'

recipientGPSI:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Gpsi'

recipientOtherAddress: # Included for backwards compatibility, shall not be used

$ref: '#/components/schemas/SMAddressInfo'

recipientOtherAddresses:

type: array

items:

$ref: '#/components/schemas/RecipientAddress'

minItems: 0

recipientReceivedAddress:

$ref: '#/components/schemas/SMAddressInfo'

recipientSCCPAddress:

type: string

sMDestinationInterface:

$ref: '#/components/schemas/SMInterface'

sMrecipientProtocolId:

type: string

SMAddressInfo:

type: object

properties:

sMaddressType:

$ref: '#/components/schemas/SMAddressType'

sMaddressData:

type: string

sMaddressDomain:

$ref: '#/components/schemas/SMAddressDomain'

RecipientAddress:

type: object

properties:

recipientAddressInfo:

$ref: '#/components/schemas/SMAddressInfo'

sMaddresseeType:

$ref: '#/components/schemas/SMAddresseeType'

MessageClass:

type: object

properties:

classIdentifier:

$ref: '#/components/schemas/ClassIdentifier'

tokenText:

type: string

SMAddressDomain:

type: object

properties:

domainName:

type: string

3GPPIMSIMCCMNC:

type: string

SMInterface:

type: object

properties:

interfaceId:

type: string

interfaceText:

type: string

interfacePort:

type: string

interfaceType:

$ref: '#/components/schemas/InterfaceType'

RANSecondaryRATUsageReport:

type: object

properties:

rANSecondaryRATType:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/RatType'

qosFlowsUsageReports:

type: array

items:

$ref: '#/components/schemas/QosFlowsUsageReport'

Diagnostics:

type: integer

IPFilterRule:

type: string

QosFlowsUsageReport:

type: object

properties:

qFI:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Qfi'

startTimestamp:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/DateTime'

endTimestamp:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/DateTime'

uplinkVolume:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Uint64'

downlinkVolume:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Uint64'

5GLANTypeService:

type: object

properties:

internalGroupIdentifier:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/GroupId'

5GSBridgeInformation:

type: object

properties:

bridgeId:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Uint64'

nWTTPortNumber:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Uint16'

dSTTPortNumber:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Uint16'

required:

- bridgeId

NEFChargingInformation:

type: object

properties:

externalIndividualIdentifier:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Gpsi'

externalIndividualIdList:

type: array

items:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Gpsi'

minItems: 1

internalIndividualIdentifier:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Supi'

internalIndividualIdList:

type: array

items:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Supi'

minItems: 1

externalGroupIdentifier:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/ExternalGroupId'

groupIdentifier:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/GroupId'

aPIDirection:

$ref: '#/components/schemas/APIDirection'

aPITargetNetworkFunction:

$ref: '#/components/schemas/NFIdentification'

aPIResultCode:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Uint32'

aPIName:

type: string

aPIReference:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Uri'

aPIOperation:

$ref: '#/components/schemas/APIOperation'

aPIContent:

type: string

required:

- aPIName

SNPNInformation:

type: object

properties:

sNPNID:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/PlmnIdNid'

accessType:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/AccessType'

n3IwfFqdn:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Fqdn'

required:

- sNPNID

RegistrationChargingInformation:

type: object

properties:

registrationMessagetype:

$ref: '#/components/schemas/RegistrationMessageType'

userInformation:

$ref: '#/components/schemas/UserInformation'

userLocationinfo:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/UserLocation'

pSCellInformation:

$ref: '#/components/schemas/PSCellInformation'

uetimeZone:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/TimeZone'

rATType:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/RatType'

5GMMCapability:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Bytes'

mICOModeIndication:

$ref: '#/components/schemas/MICOModeIndication'

smsIndication:

$ref: '#/components/schemas/SmsIndication'

taiList:

type: array

items:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Tai'

minItems: 0

serviceAreaRestriction:

type: array

items:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/ServiceAreaRestriction'

minItems: 0

requestedNSSAI:

type: array

items:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Snssai'

minItems: 0

allowedNSSAI:

type: array

items:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Snssai'

minItems: 0

rejectedNSSAI:

type: array

items:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Snssai'

minItems: 0

nSSAIMapList:

type: array

items:

$ref: '#/components/schemas/NSSAIMap'

minItems: 0

alternativeNSSAIMap:

type: array

items:

$ref: '#/components/schemas/AlternativeNSSAIMap'

minItems: 0

amfUeNgapId:

type: integer

ranUeNgapId:

type: integer

ranNodeId:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/GlobalRanNodeId'

sNPNID:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/PlmnIdNid'

cAGIDList:

type: array

items:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/CagId'

minItems: 0

satelliteAccessIndicator:

type: boolean

required:

- registrationMessagetype

PSCellInformation:

type: object

properties:

nrcgi:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Ncgi'

ecgi:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Ecgi'

NSSAIMap:

type: object

properties:

servingSnssai:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Snssai'

homeSnssai:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Snssai'

required:

- servingSnssai

- homeSnssai

AlternativeNSSAIMap:

type: object

properties:

snssai:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Snssai'

alternativeSnssai:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Snssai'

required:

- snssai

- alternativeSnssai

N2ConnectionChargingInformation:

type: object

properties:

n2ConnectionMessageType:

$ref: '#/components/schemas/N2ConnectionMessageType'

userInformation:

$ref: '#/components/schemas/UserInformation'

userLocationinfo:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/UserLocation'

pSCellInformation:

$ref: '#/components/schemas/PSCellInformation'

uetimeZone:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/TimeZone'

rATType:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/RatType'

amfUeNgapId:

type: integer

ranUeNgapId:

type: integer

ranNodeId:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/GlobalRanNodeId'

restrictedRatList:

type: array

items:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/RatType'

minItems: 0

forbiddenAreaList:

type: array

items:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Area'

minItems: 0

serviceAreaRestriction:

type: array

items:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/ServiceAreaRestriction'

minItems: 0

restrictedCnList:

type: array

items:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/CoreNetworkType'

minItems: 0

allowedNSSAI:

type: array

items:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Snssai'

minItems: 0

nSSAIMapList:

type: array

items:

$ref: '#/components/schemas/NSSAIMap'

minItems: 0

rrcEstCause:

type: string

pattern: '^[0-9a-fA-F]+$'

satelliteAccessIndicator:

type: boolean

required:

- n2ConnectionMessageType

LocationReportingChargingInformation:

type: object

properties:

locationReportingMessageType:

$ref: '#/components/schemas/LocationReportingMessageType'

userInformation:

$ref: '#/components/schemas/UserInformation'

userLocationinfo:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/UserLocation'

pSCellInformation:

$ref: '#/components/schemas/PSCellInformation'

uetimeZone:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/TimeZone'

rATType:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/RatType'

presenceReportingAreaInformation:

type: object

additionalProperties:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/PresenceInfo'

minProperties: 0

satelliteAccessIndicator:

type: boolean

required:

- locationReportingMessageType

N2ConnectionMessageType:

type: integer

LocationReportingMessageType:

type: integer

NSMChargingInformation:

type: object

properties:

managementOperation:

$ref: '#/components/schemas/ManagementOperation'

idNetworkSliceInstance:

type: string

listOfserviceProfileChargingInformation:

type: array

items:

$ref: '#/components/schemas/ServiceProfileChargingInformation'

minItems: 0

managementOperationStatus:

$ref: '#/components/schemas/ManagementOperationStatus'

managementOperationalState:

$ref: 'TS28623\_ComDefs.yaml#/components/schemas/OperationalState'

managementAdministrativeState:

$ref: 'TS28623\_ComDefs.yaml#/components/schemas/AdministrativeState'

required:

- managementOperation

ServiceProfileChargingInformation:

type: object

properties:

serviceProfileIdentifier:

type: string

sNSSAIList:

type: array

items:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Snssai'

minItems: 0

sST:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/Sst'

latency:

type: integer

availability:

type: number

resourceSharingLevel:

$ref: 'TS28541\_SliceNrm.yaml#/components/schemas/SharingLevel'

jitter:

type: integer

reliability:

type: string

maxNumberofUEs:

type: integer

coverageArea:

type: string

uEMobilityLevel:

$ref: 'TS28541\_SliceNrm.yaml#/components/schemas/MobilityLevel'

delayToleranceIndicator:

$ref: 'TS28541\_SliceNrm.yaml#/components/schemas/Support'

dLThptPerSlice:

$ref: '#/components/schemas/Throughput'

dLThptPerUE:

$ref: '#/components/schemas/Throughput'

uLThptPerSlice:

$ref: '#/components/schemas/Throughput'

uLThptPerUE:

$ref: '#/components/schemas/Throughput'

maxNumberofPDUsessions:

type: integer

kPIMonitoringList:

type: string

supportedAccessTechnology:

type: integer

v2XCommunicationModeIndicator:

$ref: 'TS28541\_SliceNrm.yaml#/components/schemas/Support'

energyEfficiency:

$ref: 'TS28541\_SliceNrm.yaml#/components/schemas/EEPerfReq'

addServiceProfileInfo:

type: string

Throughput:

type: object

properties:

guaranteedThpt:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Float'

maximumThpt:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Float'

MAPDUSessionInformation:

type: object

properties:

mAPDUSessionIndicator:

$ref: 'TS29512\_Npcf\_SMPolicyControl.yaml#/components/schemas/MaPduIndication'

aTSSSCapability:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/AtsssCapability'

EnhancedDiagnostics5G:

$ref: '#/components/schemas/RanNasCauseList'

RanNasCauseList:

type: array

items:

$ref: 'TS29512\_Npcf\_SMPolicyControl.yaml#/components/schemas/RanNasRelCause'

QosMonitoringReport:

description: Contains reporting information on QoS monitoring.

type: object

properties:

ulDelays:

type: array

items:

type: integer

minItems: 0

dlDelays:

type: array

items:

type: integer

minItems: 0

rtDelays:

type: array

items:

type: integer

minItems: 0

AnnouncementInformation:

type: object

properties:

announcementIdentifier:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Uint32'

announcementReference:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Uri'

variableParts:

type: array

items:

$ref: '#/components/schemas/VariablePart'

minItems: 0

timeToPlay:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/DurationSec'

quotaConsumptionIndicator:

$ref: '#/components/schemas/QuotaConsumptionIndicator'

announcementPriority:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Uint32'

playToParty:

$ref: '#/components/schemas/PlayToParty'

announcementPrivacyIndicator:

$ref: '#/components/schemas/AnnouncementPrivacyIndicator'

Language:

$ref: '#/components/schemas/Language'

VariablePart:

type: object

properties:

variablePartType:

$ref: '#/components/schemas/VariablePartType'

variablePartValue:

type: array

items:

type: string

minItems: 1

variablePartOrder:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Uint32'

required:

- variablePartType

- variablePartValue

Language:

type: string

MMTelChargingInformation:

type: object

properties:

supplementaryServices:

type: array

items:

$ref: '#/components/schemas/SupplementaryService'

minItems: 1

SupplementaryService:

type: object

properties:

supplementaryServiceType:

$ref: '#/components/schemas/SupplementaryServiceType'

supplementaryServiceMode:

$ref: '#/components/schemas/SupplementaryServiceMode'

numberOfDiversions:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Uint32'

associatedPartyAddress:

type: string

conferenceId:

type: string

participantActionType:

$ref: '#/components/schemas/ParticipantActionType'

changeTime:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/DateTime'

numberOfParticipants:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Uint32'

cUGInformation:

$ref: '#/components/schemas/OctetString'

IMSChargingInformation:

type: object

properties:

eventType:

$ref: '#/components/schemas/SIPEventType'

iMSNodeFunctionality:

$ref: '#/components/schemas/IMSNodeFunctionality'

roleOfNode:

$ref: '#/components/schemas/RoleOfIMSNode'

userInformation:

$ref: '#/components/schemas/UserInformation'

userLocationInfo:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/UserLocation'

ueTimeZone:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/TimeZone'

3gppPSDataOffStatus:

$ref: '#/components/schemas/3GPPPSDataOffStatus'

isupCause:

$ref: '#/components/schemas/ISUPCause'

controlPlaneAddress:

$ref: '#/components/schemas/IMSAddress'

vlrNumber:

$ref: '#/components/schemas/E164'

mscAddress:

$ref: '#/components/schemas/E164'

userSessionID:

type: string

outgoingSessionID:

type: string

sessionPriority:

$ref: '#/components/schemas/IMSSessionPriority'

callingPartyAddresses:

type: array

items:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Uri'

minItems: 1

calledPartyAddress:

type: string

numberPortabilityRoutinginformation:

type: string

carrierSelectRoutingInformation:

type: string

alternateChargedPartyAddress:

type: string

requestedPartyAddress:

type: array

items:

type: string

minItems: 1

calledAssertedIdentities:

type: array

items:

type: string

minItems: 1

calledIdentityChanges:

type: array

items:

$ref: '#/components/schemas/CalledIdentityChange'

minItems: 1

associatedURI:

type: array

items:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Uri'

minItems: 1

timeStamps:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/DateTime'

applicationServerInformation:

type: array

items:

type: string

minItems: 1

interOperatorIdentifier:

type: array

items:

$ref: '#/components/schemas/InterOperatorIdentifier'

minItems: 1

imsChargingIdentifier:

type: string

relatedICID:

type: string

relatedICIDGenerationNode:

type: string

transitIOIList:

type: array

items:

type: string

minItems: 1

earlyMediaDescription:

type: array

items:

$ref: '#/components/schemas/EarlyMediaDescription'

minItems: 1

sdpSessionDescription:

type: array

items:

type: string

minItems: 1

sdpMediaComponent:

type: array

items:

$ref: '#/components/schemas/SDPMediaComponent'

minItems: 1

servedPartyIPAddress:

$ref: '#/components/schemas/IMSAddress'

serverCapabilities:

$ref: '#/components/schemas/ServerCapabilities'

trunkGroupID:

$ref: '#/components/schemas/TrunkGroupID'

bearerService:

type: string

imsServiceId:

type: string

messageBodies:

type: array

items:

$ref: '#/components/schemas/MessageBody'

minItems: 1

accessNetworkInformation:

type: array

items:

type: string

minItems: 1

additionalAccessNetworkInformation:

type: string

cellularNetworkInformation:

type: string

accessTransferInformation:

type: array

items:

$ref: '#/components/schemas/AccessTransferInformation'

minItems: 1

accessNetworkInfoChange:

type: array

items:

$ref: '#/components/schemas/AccessNetworkInfoChange'

minItems: 1

imsCommunicationServiceID:

type: string

imsApplicationReferenceID:

type: string

causeCode:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Uint32'

reasonHeader:

type: array

items:

type: string

minItems: 1

initialIMSChargingIdentifier:

type: string

nniInformation:

type: array

items:

$ref: '#/components/schemas/NNIInformation'

minItems: 1

fromAddress:

type: string

imsEmergencyIndication:

type: boolean

imsVisitedNetworkIdentifier:

type: string

sipRouteHeaderReceived:

type: string

sipRouteHeaderTransmitted:

type: string

tadIdentifier:

$ref: '#/components/schemas/TADIdentifier'

feIdentifierList:

type: string

imsDCAppInfo:

$ref: '#/components/schemas/IMSDCAppInfo'

satelliteIdList:

type: array

items:

$ref: '#/components/schemas/SatelliteId'

minItems: 1

IMSDCAppInfo:

type: object

properties:

applicationId:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/ApplicationId'

httpUrl:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/ReplaceHttpUrl'

EdgeInfrastructureUsageChargingInformation:

type: object

properties:

meanVirtualCPUUsage:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Float'

meanVirtualMemoryUsage:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Float'

meanVirtualDiskUsage:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Float'

measuredInBytes:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Uint64'

measuredOutBytes:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Uint64'

durationStartTime:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/DateTime'

durationEndTime:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/DateTime'

EASDeploymentChargingInformation:

type: object

properties:

eEASDeploymentRequirements:

$ref: '#/components/schemas/EASRequirements'

lCMEventType:

$ref: '#/components/schemas/ManagementOperation'

lCMStartTime:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/DateTime'

lCMEndTime:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/DateTime'

satelliteBackhaulInformation:

$ref: '#/components/schemas/SatelliteBackhaulInformation'

MMSChargingInformation:

type: object

properties:

mmOriginatorInfo:

$ref: '#/components/schemas/MMOriginatorInfo'

mmRecipientInfoList:

type: array

items:

$ref: '#/components/schemas/MMRecipientInfo'

minItems: 0

userLocationinfo:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/UserLocation'

uetimeZone:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/TimeZone'

rATType:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/RatType'

correlationInformation:

type: string

submissionTime:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/DateTime'

mmContentType:

$ref: '#/components/schemas/MMContentType'

mmPriority:

$ref: '#/components/schemas/SMPriority'

messageID:

type: string

messageType:

type: string

messageSize:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Uint32'

messageClass:

type: string

deliveryReportRequested:

type: boolean

readReplyReportRequested:

type: boolean

applicID:

type: string

replyApplicID:

type: string

auxApplicInfo:

type: string

contentClass:

type: string

dRMContent:

type: boolean

adaptations:

type: boolean

vasID:

type: string

vaspID:

type: string

MMOriginatorInfo:

type: object

properties:

originatorSUPI:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Supi'

originatorGPSI:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Gpsi'

originatorOtherAddress:

type: array

items:

$ref: '#/components/schemas/SMAddressInfo'

minItems: 0

MMRecipientInfo:

type: object

properties:

recipientSUPI:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Supi'

recipientGPSI:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Gpsi'

recipientOtherAddress:

type: array

items:

$ref: '#/components/schemas/SMAddressInfo'

TSNChargingInformation:

type: object

properties:

dNN:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Dnn'

sNSSAI:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Snssai'

internalGroupIdentifier:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/GroupId'

externalIndividualIdList:

type: array

items:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Gpsi'

minItems: 0

5GSBridgeInformation:

$ref: '#/components/schemas/5GSBridgeInformation'

tSNQoSInformation:

$ref: '#/components/schemas/TSNQoSInformation'

tSCAssistanceInformation:

$ref: '#/components/schemas/TSCAssistanceInformation'

timeSynchronizationInformation:

$ref: '#/components/schemas/TimeSynchronizationInformation'

TSNQoSInformation:

type: object

properties:

priority:

type: integer

bridgeDelay:

type: array

items:

type: integer

minItems: 0

TSCAssistanceInformation:

type: object

properties:

flowDirection:

$ref: '#/components/schemas/TSCFlowDirection'

periodicity:

type: integer

TimeSynchronizationInformation:

type: object

properties:

distributionMethod:

$ref: '#/components/schemas/TimeDistributionMethod'

tSNtimeDomainNumber:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Uinteger'

temporalValidityInformation:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/DurationSec'

spatialValidityInformation:

type: array

items:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Tai'

minItems: 0

timeSynchronizationErrorBudget:

type: integer

synchronizationState:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/SynchronizationState'

clockQuality:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/ClockQuality'

parentTimeSource:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/TimeSource'

PC5ContainerInformation:

type: object

properties:

coverageInfoList:

type: array

items:

$ref: '#/components/schemas/CoverageInfo'

radioParameterSetInfoList:

type: array

items:

$ref: '#/components/schemas/RadioParameterSetInfo'

transmitterInfoList:

type: array

items:

$ref: '#/components/schemas/TransmitterInfo'

minItems: 0

timeOfFirstTransmission:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/DateTime'

timeOfFirstReception:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/DateTime'

CoverageInfo:

type: object

properties:

coverageStatus:

type: boolean

changeTime:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/DateTime'

locationInfo:

type: array

items:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/UserLocation'

minItems: 0

RadioParameterSetInfo:

type: object

properties:

radioParameterSetValues:

type: array

items:

$ref: '#/components/schemas/OctetString'

minItems: 0

changeTimestamp:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/DateTime'

TransmitterInfo:

type: object

properties:

proseSourceIPAddress:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/IpAddr'

proseSourceL2Id:

type: string

ProseChargingInformation:

type: object

properties:

announcingPlmnID:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/PlmnId'

announcingUeHplmnIdentifier:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/PlmnId'

announcingUeVplmnIdentifier:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/PlmnId'

monitoringUeHplmnIdentifier:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/PlmnId'

monitoringUeVplmnIdentifier:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/PlmnId'

discovererUeHplmnIdentifier:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/PlmnId'

discovererUeVplmnIdentifier:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/PlmnId'

discovereeUeHplmnIdentifier:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/PlmnId'

discovereeUeVplmnIdentifier:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/PlmnId'

monitoredPlmnIdentifier:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/PlmnId'

proseApplicationID:

type: string

ApplicationId:

type: string

applicationSpecificDataList:

type: array

items:

type: string

minItems: 0

proseFunctionality:

$ref: '#/components/schemas/ProseFunctionality'

proseEventType:

$ref: '#/components/schemas/ProseEventType'

directDiscoveryModel:

$ref: '#/components/schemas/DirectDiscoveryModel'

validityPeriod:

type: integer

roleOfUE:

$ref: '#/components/schemas/RoleOfUE'

proseRequestTimestamp:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/DateTime'

pC3ProtocolCause:

type: integer

monitoringUEIdentifier:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Supi'

requestedPLMNIdentifier:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/PlmnId'

timeWindow:

type: integer

rangeClass:

$ref: '#/components/schemas/RangeClass'

proximityAlertIndication:

type: boolean

proximityAlertTimestamp:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/DateTime'

proximityCancellationTimestamp:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/DateTime'

hopCount:

type: integer

intermediateRelayInformationContainer:

type: array

items:

$ref: '#/components/schemas/IntermediateRelayInformationContainer'

minItems: 0

relayIPAddress:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/IpAddr'

proseUEToNetworkRelayUEID :

type: string

proseDestinationLayer2ID:

type: string

pFIContainerInformation:

type: array

items:

$ref: '#/components/schemas/PFIContainerInformation'

minItems: 0

transmissionDataContainer:

type: array

items:

$ref: '#/components/schemas/PC5DataContainer'

minItems: 0

receptionDataContainer:

type: array

items:

$ref: '#/components/schemas/PC5DataContainer'

minItems: 0

required:

- aPIName

InterCHFInformation:

type: object

properties:

remoteCHFResource:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Uri'

originalNFConsumerId:

$ref: '#/components/schemas/NFIdentification'

NSACFChargingInformation:

type: object

properties:

nSACChargingIndicator:

type: boolean

NSACContainerInformation:

type: object

properties:

numberOfUEs:

type: integer

numberOfPDUs:

type: integer

NSSAAChargingInformation:

type: object

properties:

nSSAAMessageType:

$ref: '#/components/schemas/NSSAAMessageType'

userIdentification:

$ref: '#/components/schemas/UserInformation'

aAAPAddress:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/ServerAddressingInfo'

aAASAddress:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/ServerAddressingInfo'

eAPIDResponse:

type: string

eAPauthstatus:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/AuthStatus'

aMFId:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/AmfId'

required:

- nSSAAMessageType

- userIdentification

RangingSLChargingInformation:

type: object

properties:

targetUEID:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Supi'

sLReferenceUEID:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Supi'

sLPositioningServerUEID:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Supi'

locatedUEID:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Supi'

locationType:

$ref: '#/components/schemas/LocationType'

locationEstimate:

$ref: '#/components/schemas/LocationEstimate'

LCSInformation:

type: object

properties:

lCSClientID:

type: string

locationType:

$ref: '#/components/schemas/LocationType'

locationEstimate:

$ref: '#/components/schemas/LocationEstimate'

positioningData:

type: string

targetUEID:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Supi'

LocationEstimate:

type: object

properties:

userLocationInformation:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/UserLocation'

horizontalAccuracy:

$ref: '#/components/schemas/OctetString'

verticalAccuracy:

$ref: '#/components/schemas/OctetString'

IntermediateRelayInformationContainer:

type: object

properties:

intermediateRelayIPAddress:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/IpAddr'

proseUEToNetworkIntermediateRelayUEID:

type: string

PFIContainerInformation:

type: object

properties:

pFI:

type: string

reportTime:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/DateTime'

timeofFirstUsage:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/DateTime'

timeofLastUsage:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/DateTime'

qoSInformation:

$ref: 'TS29512\_Npcf\_SMPolicyControl.yaml#/components/schemas/QosData'

qoSCharacteristics:

$ref: 'TS29512\_Npcf\_SMPolicyControl.yaml#/components/schemas/QosCharacteristics'

userLocationInformation:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/UserLocation'

uetimeZone:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/TimeZone'

presenceReportingAreaInformation:

type: object

additionalProperties:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/PresenceInfo'

minProperties: 0

PC5DataContainer:

type: object

properties:

localSequenceNumber:

type: string

changeTime:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/DateTime'

coverageStatus:

type: boolean

userLocationInformation:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/UserLocation'

dataVolume:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Uint64'

changeCondition:

type: string

radioResourcesId:

$ref: '#/components/schemas/RadioResourcesIndicator'

radioFrequency:

type: string

pC5RadioTechnology:

type: string

OctetString:

type: string

pattern: '^[0-9a-fA-F]+$'

E164:

type: string

pattern: '^[0-9a-fA-F]+$'

IMSAddress:

type: object

properties:

ipv4Addr:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Ipv4Addr'

ipv6Addr:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Ipv6Addr'

e164:

$ref: '#/components/schemas/E164'

anyOf:

- required: [ ipv4Addr ]

- required: [ ipv6Addr ]

- required: [ e164 ]

ServingNodeAddress:

type: object

properties:

ipv4Addr:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Ipv4Addr'

ipv6Addr:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Ipv6Addr'

anyOf:

- required: [ ipv4Addr ]

- required: [ ipv6Addr ]

SIPEventType:

type: object

properties:

sIPMethod:

type: string

eventHeader:

type: string

expiresHeader:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Uint32'

ISUPCause:

type: object

properties:

iSUPCauseLocation:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Uint32'

iSUPCauseValue:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Uint32'

iSUPCauseDiagnostics:

$ref: '#/components/schemas/OctetString'

enhancedDiagnostics:

$ref: '#/components/schemas/EnhancedDiagnostics5G'

CalledIdentityChange:

type: object

properties:

calledIdentity:

type: string

changeTime:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/DateTime'

InterOperatorIdentifier:

type: object

properties:

originatingIOI:

type: string

terminatingIOI:

type: string

EarlyMediaDescription:

type: object

properties:

sDPTimeStamps:

$ref: '#/components/schemas/SDPTimeStamps'

sDPMediaComponent:

type: array

items:

$ref: '#/components/schemas/SDPMediaComponent'

minItems: 0

sDPSessionDescription:

type: array

items:

type: string

minItems: 0

SDPTimeStamps:

type: object

properties:

sDPOfferTimestamp:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/DateTime'

sDPAnswerTimestamp:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/DateTime'

SDPMediaComponent:

type: object

properties:

sDPMediaName:

type: string

SDPMediaDescription:

type: array

items:

type: string

minItems: 0

localGWInsertedIndication:

type: boolean

ipRealmDefaultIndication:

type: boolean

transcoderInsertedIndication:

type: boolean

mediaInitiatorFlag:

$ref: '#/components/schemas/MediaInitiatorFlag'

mediaInitiatorParty:

type: string

threeGPPChargingId:

$ref: '#/components/schemas/OctetString'

accessNetworkChargingIdentifierValue:

$ref: '#/components/schemas/OctetString'

sDPType:

$ref: '#/components/schemas/SDPType'

ServerCapabilities:

type: object

properties:

mandatoryCapability:

type: array

items:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Uint32'

minItems: 0

optionalCapability :

type: array

items:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Uint32'

minItems: 0

serverName:

type: array

items:

type: string

minItems: 0

TrunkGroupID:

type: object

properties:

incomingTrunkGroupID:

type: string

outgoingTrunkGroupID:

type: string

MessageBody:

type: object

properties:

contentType:

type: string

contentLength:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Uint32'

contentDisposition:

type: string

originator:

$ref: '#/components/schemas/OriginatorPartyType'

required:

- contentType

- contentLength

AccessTransferInformation:

type: object

properties:

accessTransferType:

$ref: '#/components/schemas/AccessTransferType'

accessNetworkInformation:

type: array

items:

$ref: '#/components/schemas/OctetString'

minItems: 0

cellularNetworkInformation:

$ref: '#/components/schemas/OctetString'

interUETransfer:

$ref: '#/components/schemas/UETransferType'

userEquipmentInfo:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Pei'

instanceId:

type: string

relatedIMSChargingIdentifier:

type: string

relatedIMSChargingIdentifierNode:

$ref: '#/components/schemas/IMSAddress'

changeTime:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/DateTime'

AccessNetworkInfoChange:

type: object

properties:

accessNetworkInformation:

type: array

items:

$ref: '#/components/schemas/OctetString'

minItems: 0

cellularNetworkInformation:

$ref: '#/components/schemas/OctetString'

changeTime:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/DateTime'

NNIInformation:

type: object

properties:

sessionDirection:

$ref: '#/components/schemas/NNISessionDirection'

nNIType:

$ref: '#/components/schemas/NNIType'

relationshipMode:

$ref: '#/components/schemas/NNIRelationshipMode'

neighbourNodeAddress:

$ref: '#/components/schemas/IMSAddress'

SatelliteId:

type: string

EASRequirements:

type: object

properties:

requiredEASservingLocation:

$ref: 'TS28538\_EdgeNrm.yaml#/components/schemas/ServingLocation'

softwareImageInfo:

$ref: 'TS28538\_EdgeNrm.yaml#/components/schemas/SoftwareImageInfo'

affinityAntiAffinity:

$ref: 'TS28538\_EdgeNrm.yaml#/components/schemas/AffinityAntiAffinity'

serviceContinuity:

type: boolean

virtualResource:

$ref: 'TS28538\_EdgeNrm.yaml#/components/schemas/VirtualResource'

MMContentType:

type: object

properties:

typeNumber:

type: string

addtypeInfo:

type: string

contentSize:

type: integer

mmAddContentInfo:

type: array

items:

$ref: '#/components/schemas/MMAddContentInfo'

minItems: 0

MMAddContentInfo:

type: object

properties:

typeNumber:

type: string

addtypeInfo:

type: string

contentSize:

type: integer

APIOperation:

type: object

properties:

name:

type: string

description:

type: string

5GMulticastService:

type: object

properties:

mBSSessionIdList:

type: array

items:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/MbsSessionId'

minItems: 1

MBSSessionChargingInformation:

type: object

properties:

mBSSessionID:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/MbsSessionId'

mBSServiceType:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/MbsServiceType'

serviceArea:

$ref: '#/components/schemas/ServiceArea'

mBSStartTime:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/DateTime'

mBSEndTime:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/DateTime'

mBSServiceActivityStatus:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/MbsSessionActivityStatus'

servingNetworkFunctionID:

$ref: '#/components/schemas/ServingNetworkFunctionID'

required:

- mBSSessionID

- mBSServiceType

ServiceArea:

type: object

properties:

mBSServiceArea:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/MbsServiceArea'

uPFIDs:

type: array

items:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/NfInstanceId'

minItems: 0

ranNodeIDs:

type: array

items:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/GlobalRanNodeId'

minItems: 0

MBSContainerInformation:

type: object

properties:

timeofFirstUsage:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/DateTime'

timeofLastUsage:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/DateTime'

qoSInformation:

$ref: 'TS29512\_Npcf\_SMPolicyControl.yaml#/components/schemas/QosData'

establishedConnectionInfo:

$ref: '#/components/schemas/EstablishedConnectionInfo'

EstablishedConnectionInfo:

type: object

properties:

uPFIDs:

type: array

items:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/NfInstanceId'

minItems: 0

ranNodeIDs:

type: array

items:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/GlobalRanNodeId'

minItems: 0

SatelliteBackhaulInformation:

type: object

properties:

satelliteBackhaulCategory:

type: array

items:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/SatelliteBackhaulCategory'

minItems: 0

gEOSatelliteID:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/GeoSatelliteId'

NotificationType:

anyOf:

- type: string

enum:

- REAUTHORIZATION

- ABORT\_CHARGING

- type: string

NodeFunctionality:

anyOf:

- type: string

enum:

- AMF

- SMF

- SMS # Included for backwards compatibility, shall not be used

- SMSF

- PGW\_C\_SMF

- NEFF # Included for backwards compatibility, shall not be used

- SGW

- I\_SMF

- ePDG

- CEF

- NEF

- MnS\_Producer

- SGSN

- V\_SMF

- 5G\_DDNMF

- IMS\_Node

- MMS\_Node

- EES

- PCF

- UDM

- UPF

- TSN\_AF

- TSCTSF

- MB\_SMF

- CHF

- GMLC

- AIOTF

- CCF

- type: string

ChargingCharacteristicsSelectionMode:

anyOf:

- type: string

enum:

- HOME\_DEFAULT

- ROAMING\_DEFAULT

- VISITING\_DEFAULT

- type: string

TriggerType:

anyOf:

- type: string

enum:

# SMF TriggerType

- QUOTA\_THRESHOLD

- QHT

- FINAL

- QUOTA\_EXHAUSTED

- VALIDITY\_TIME

- OTHER\_QUOTA\_TYPE

- FORCED\_REAUTHORISATION

- UNUSED\_QUOTA\_TIMER # Included for backwards compatibility, shall not be used

- UNIT\_COUNT\_INACTIVITY\_TIMER

- ABNORMAL\_RELEASE

- QOS\_CHANGE

- VOLUME\_LIMIT

- TIME\_LIMIT

- EVENT\_LIMIT

- PLMN\_CHANGE

- USER\_LOCATION\_CHANGE

- RAT\_CHANGE

- SESSION\_AMBR\_CHANGE

- UE\_TIMEZONE\_CHANGE

- TARIFF\_TIME\_CHANGE

- MAX\_NUMBER\_OF\_CHANGES\_IN\_CHARGING\_CONDITIONS

- MANAGEMENT\_INTERVENTION

- CHANGE\_OF\_UE\_PRESENCE\_IN\_PRESENCE\_REPORTING\_AREA

- CHANGE\_OF\_3GPP\_PS\_DATA\_OFF\_STATUS

- SERVING\_NODE\_CHANGE

- REMOVAL\_OF\_UPF

- ADDITION\_OF\_UPF

- INSERTION\_OF\_ISMF

- REMOVAL\_OF\_ISMF

- CHANGE\_OF\_ISMF

- START\_OF\_SERVICE\_DATA\_FLOW

- ECGI\_CHANGE

- TAI\_CHANGE

- HANDOVER\_CANCEL

- HANDOVER\_START

- HANDOVER\_COMPLETE

- GFBR\_GUARANTEED\_STATUS\_CHANGE

- ADDITION\_OF\_ACCESS

- REMOVAL\_OF\_ACCESS

- START\_OF\_SDF\_ADDITIONAL\_ACCESS

- REDUNDANT\_TRANSMISSION\_CHANGE

- CGI\_SAI\_CHANGE

- RAI\_CHANGE

- JOIN\_MULTICAST

- MBS\_DELIVERY\_METHOD\_CHANGE

- LEAVE\_MULTICAST

- VSMF\_CHANGE

- SNSSAI\_REPLACEMENT

- SATELLITE\_BACKHAUL\_CATEGORY\_CHANGE

- GEO\_SATELLITE\_ID\_CHANGE

# IMS TriggerType

- SIP\_INVITE

- SIP\_RE-INVITE\_OR\_UPDATE

- SIP\_2XX\_ACKNOWLEDGING

- SIP\_1XX\_PROVISIONAL\_RESPONSE

- SIP\_4XX\_5XX\_OR\_6XX\_RESPONSE

- ANY\_OTHER\_SIP\_MESSAGE - SIP\_BYE\_MESSAGE

- SIP\_2XX\_ACKNOWLEDGING\_A\_SIP\_BYE

- ABORTING\_A\_SIP\_SESSION\_SET-UP

- SIP\_3XX\_FINAL\_OR\_REDIRECTION\_RESPONSE

- SIP\_4XX\_5XX\_OR\_6XX\_FINAL\_RESPONSE

# MB-SMF TriggerType

- MBS\_CONNECTION\_ESTABLISHED\_WITH\_NG-RAN

- MBS\_CONNECTION\_RELEASED\_WITH\_NG-RAN

- MBS\_CONNECTION\_ESTABLISHED\_WITH\_UPF

- MBS\_CONNECTION\_RELEASED\_WITH\_UPF

- MBS\_SESSION\_ACTIVITY\_STATUS\_CHANGE\_TO\_ACTIVE

- MBS\_SESSION\_ACTIVITY\_STATUS\_CHANGE\_TO\_INACTIVE

- MBS\_SESSION\_CONTEXT\_UPDATE

# NSAC TriggerType

- NSAC\_THRESHOLD\_INITIAL

- NSAC\_THRESHOLD\_UPWARDS\_REACHED

- NSAC\_THRESHOLD\_UPWARDS\_CROSSED

- NSAC\_THRESHOLD\_DOWNWARDS\_CROSSED

- NSAC\_QUOTA\_THRESHOLD

- NSAC\_QUOTA\_EXHAUSTED

- NSAC\_VALIDITY\_TIME

- NSAC\_QHT

- NSAC\_THRESHOLD\_TERMINATION

- NS\_TERMINATION

FinalUnitAction:

anyOf:

- type: string

enum:

- TERMINATE

- REDIRECT

- RESTRICT\_ACCESS

- type: string

RedirectAddressType:

anyOf:

- type: string

enum:

- IPV4

- IPV6

- URL

- URI

- type: string

TriggerCategory:

anyOf:

- type: string

enum:

- IMMEDIATE\_REPORT

- DEFERRED\_REPORT

- type: string

QuotaManagementIndicator:

anyOf:

- type: string

enum:

- ONLINE\_CHARGING

- OFFLINE\_CHARGING

- QUOTA\_MANAGEMENT\_SUSPENDED

- type: string

FailureHandling:

anyOf:

- type: string

enum:

- TERMINATE

- CONTINUE

- RETRY\_AND\_TERMINATE

- type: string

SessionFailover:

anyOf:

- type: string

enum:

- FAILOVER\_NOT\_SUPPORTED

- FAILOVER\_SUPPORTED

- type: string

3GPPPSDataOffStatus:

anyOf:

- type: string

enum:

- ACTIVE

- INACTIVE

- type: string

ResultCode:

anyOf:

- type: string

enum:

- SUCCESS

- END\_USER\_SERVICE\_DENIED

- QUOTA\_MANAGEMENT\_NOT\_APPLICABLE

- QUOTA\_LIMIT\_REACHED

- END\_USER\_SERVICE\_REJECTED

- USER\_UNKNOWN #Included for backwards compatibility, shall not be used

- RATING\_FAILED

- QUOTA\_MANAGEMENT

- type: string

PartialRecordMethod:

anyOf:

- type: string

enum:

- DEFAULT

- INDIVIDUAL

- type: string

RoamerInOut:

anyOf:

- type: string

enum:

- IN\_BOUND

- OUT\_BOUND

- type: string

SMMessageType:

anyOf:

- type: string

enum:

- SUBMISSION

- DELIVERY\_REPORT

- SM\_SERVICE\_REQUEST

- DELIVERY

- type: string

SMPriority:

anyOf:

- type: string

enum:

- LOW

- NORMAL

- HIGH

- type: string

DeliveryReportRequested:

anyOf:

- type: string

enum:

- YES

- NO

- type: string

InterfaceType:

anyOf:

- type: string

enum:

- UNKNOWN

- MOBILE\_ORIGINATING

- MOBILE\_TERMINATING

- APPLICATION\_ORIGINATING

- APPLICATION\_TERMINATING

- type: string

ClassIdentifier:

anyOf:

- type: string

enum:

- PERSONAL

- ADVERTISEMENT

- INFORMATIONAL

- AUTO

- type: string

SMAddressType:

anyOf:

- type: string

enum:

- EMAIL\_ADDRESS

- MSISDN # Included for backwards compatibility, shall not be used

- IPV4\_ADDRESS

- IPV6\_ADDRESS

- NUMERIC\_SHORTCODE

- ALPHANUMERIC\_SHORTCODE

- OTHER

- IMSI # Included for backwards compatibility, shall not be used

- type: string

SMAddresseeType:

anyOf:

- type: string

enum:

- TO

- CC

- BCC

- type: string

SMServiceType:

anyOf:

- type: string

enum:

- VAS4SMS\_SHORT\_MESSAGE\_CONTENT\_PROCESSING

- VAS4SMS\_SHORT\_MESSAGE\_FORWARDING

- VAS4SMS\_SHORT\_MESSAGE\_FORWARDING\_MULTIPLE\_SUBSCRIPTIONS

- VAS4SMS\_SHORT\_MESSAGE\_FILTERING

- VAS4SMS\_SHORT\_MESSAGE\_RECEIPT

- VAS4SMS\_SHORT\_MESSAGE\_NETWORK\_STORAGE

- VAS4SMS\_SHORT\_MESSAGE\_TO\_MULTIPLE\_DESTINATIONS

- VAS4SMS\_SHORT\_MESSAGE\_VIRTUAL\_PRIVATE\_NETWORK(VPN)

- VAS4SMS\_SHORT\_MESSAGE\_AUTO\_REPLY

- VAS4SMS\_SHORT\_MESSAGE\_PERSONAL\_SIGNATURE

- VAS4SMS\_SHORT\_MESSAGE\_DEFERRED\_DELIVERY

- type: string

ReplyPathRequested:

anyOf:

- type: string

enum:

- NO\_REPLY\_PATH\_SET

- REPLY\_PATH\_SET

- type: string

oneTimeEventType:

anyOf:

- type: string

enum:

- IEC

- PEC

- type: string

dnnSelectionMode:

anyOf:

- type: string

enum:

- VERIFIED

- UE\_DNN\_NOT\_VERIFIED

- NW\_DNN\_NOT\_VERIFIED

- type: string

APIDirection:

anyOf:

- type: string

enum:

- INVOCATION

- NOTIFICATION

- type: string

RegistrationMessageType:

anyOf:

- type: string

enum:

- INITIAL

- MOBILITY

- PERIODIC

- EMERGENCY

- DEREGISTRATION

- type: string

MICOModeIndication:

anyOf:

- type: string

enum:

- MICO\_MODE

- NO\_MICO\_MODE

- type: string

SmsIndication:

anyOf:

- type: string

enum:

- SMS\_SUPPORTED

- SMS\_NOT\_SUPPORTED

- type: string

ManagementOperation:

anyOf:

- type: string

enum:

- CreateMOI #Included for backwards compatibility, shall not be used

- ModifyMOIAttributes #Included for backwards compatibility, shall not be used

- DeleteMOI #Included for backwards compatibility, shall not be used

- CREATE\_MOI

- MODIFY\_MOI\_ATTR

- DELETE\_MOI

- NOTIFY\_MOI\_CREATION

- NOTIFY\_MOI\_ATTR\_CHANGE

- NOTIFY\_MOI\_DELETION

- type: string

ManagementOperationStatus:

anyOf:

- type: string

enum:

- OPERATION\_SUCCEEDED

- OPERATION\_FAILED

- type: string

RedundantTransmissionType:

anyOf:

- type: string

enum:

- NON\_TRANSMISSION

- END\_TO\_END\_USER\_PLANE\_PATHS

- N3\_N9

- TRANSPORT\_LAYER

- type: string

VariablePartType:

anyOf:

- type: string

enum:

- INTEGER

- NUMBER

- TIME

- DATE

- CURRENCY

- type: string

QuotaConsumptionIndicator:

anyOf:

- type: string

enum:

- QUOTA\_NOT\_USED

- QUOTA\_IS\_USED

- type: string

PlayToParty:

anyOf:

- type: string

enum:

- SERVED

- REMOTE

- type: string

AnnouncementPrivacyIndicator:

anyOf:

- type: string

enum:

- NOT\_PRIVATE

- PRIVATE

- type: string

SupplementaryServiceType:

anyOf:

- type: string

enum:

- OIP

- OIR

- TIP

- TIR

- HOLD

- CB

- CDIV

- CW

- MWI

- CONF

- FA

- CCBS

- CCNR

- MCID

- CAT

- CUG

- PNM

- CRS

- ECT

- type: string

SupplementaryServiceMode:

anyOf:

- type: string

enum:

- CFU

- CFB

- CFNR

- CFNL

- CD

- CFNRC

- ICB

- OCB

- ACR

- BLIND\_TRANFER

- CONSULTATIVE\_TRANFER

- type: string

ParticipantActionType:

anyOf:

- type: string

enum:

- CREATE

- JOIN

- INVITE\_INTO

- QUIT

- type: string

TrafficForwardingWay:

anyOf:

- type: string

enum:

- N6

- N19

- LOCAL\_SWITCH

- type: string

IMSNodeFunctionality:

anyOf:

- type: string

enum:

# The applicable IMS Nodes are MRFC, IMS-GWF (connected to S-CSCF using ISC), SIP AS and DCSF.

- S\_CSCF

- P\_CSCF

- I\_CSCF

- MRFC

- MGCF

- BGCF

- AS

- IBCF

- S-GW

- P-GW

- HSGW

- E-CSCF

- MME

- TRF

- TF

- ATCF

- PROXY

- EPDG

- TDF

- TWAG

- SCEF

- IWK\_SCEF

- IMS\_GWF

- DCSF

- type: string

RoleOfIMSNode:

anyOf:

- type: string

enum:

- ORIGINATING

- TERMINATING

- FORWARDING

- type: string

IMSSessionPriority:

anyOf:

- type: string

enum:

- PRIORITY\_0

- PRIORITY\_1

- PRIORITY\_2

- PRIORITY\_3

- PRIORITY\_4

- type: string

MediaInitiatorFlag:

anyOf:

- type: string

enum:

- CALLED\_PARTY

- CALLING\_PARTY

- UNKNOWN

- type: string

SDPType:

anyOf:

- type: string

enum:

- OFFER

- ANSWER

- type: string

OriginatorPartyType:

anyOf:

- type: string

enum:

- CALLING

- CALLED

- type: string

AccessTransferType:

anyOf:

- type: string

enum:

- PS\_TO\_CS

- CS\_TO\_PS

- PS\_TO\_PS

- CS\_TO\_CS

- type: string

UETransferType:

anyOf:

- type: string

enum:

- INTRA\_UE

- INTER\_UE

- type: string

NNISessionDirection:

anyOf:

- type: string

enum:

- INBOUND

- OUTBOUND

- type: string

NNIType:

anyOf:

- type: string

enum:

- NON\_ROAMING

- ROAMING\_NO\_LOOPBACK

- ROAMING\_LOOPBACK

- type: string

NNIRelationshipMode:

anyOf:

- type: string

enum:

- TRUSTED

- NON\_TRUSTED

- type: string

TADIdentifier:

anyOf:

- type: string

enum:

- CS

- PS

- type: string

ProseFunctionality:

anyOf:

- type: string

enum:

- DIRECT\_DISCOVERY

- DIRECT\_COMMUNICATION

- type: string

ProseEventType:

anyOf:

- type: string

enum:

- ANNOUNCING

- MONITORING

- MATCH\_REPORT

- type: string

DirectDiscoveryModel:

anyOf:

- type: string

enum:

- MODEL\_A

- MODEL\_B

- type: string

RoleOfUE:

anyOf:

- type: string

enum:

- ANNOUNCING\_UE

- MONITORING\_UE

- REQUESTOR\_UE

- REQUESTED\_UE

- type: string

RangeClass:

anyOf:

- type: string

enum:

- RESERVED

- 50\_METER

- 100\_METER

- 200\_METER

- 500\_METER

- 1000\_METER

- UNUSED

- type: string

RadioResourcesIndicator:

anyOf:

- type: string

enum:

- OPERATOR\_PROVIDED

- CONFIGURED

- type: string

MbsDeliveryMethod:

anyOf:

- type: string

enum:

- SHARED

- INDIVIDUAL

- type: string

TSCFlowDirection:

anyOf:

- type: string

enum:

- UPLINK

- DOWNLINK

- type: string

TimeDistributionMethod:

anyOf:

- type: string

enum:

- GPTP

- ASTI

- type: string

AllocateUnitIndicator:

anyOf:

- type: string

enum:

- CHF\_DETERMINED

- CTF\_DETERMINED

- type: string

NSSAAMessageType:

anyOf:

- type: string

enum:

- Authenticate

- Re-Authentication-Notification

- Revocation Notification

- type: string

LocationType:

anyOf:

- type: string

enum:

- CURRENT\_LOCATION

- LAST\_KNOWN\_LOCATION

- INITIAL\_LOCATION

- DEFERRED\_LOCATION

- NOTIFICATION\_VERIFICATION

- type: string

<CODE ENDS>

\*\*\* END OF CHANGE 1 \*\*\*