**3GPP TSG-SA5 Meeting #130-e *S5-202176rev3***

**Online, , 20th Apr 2020 - 28th Apr 2020**

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| *CR-Form-v12.0* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **32.291** | **CR** | **0226** | **rev** | **1** | **Current version:** | **16.3.0** |  |
|  | | | | | | | | |
| *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)*.* | | | | | | | | |
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| ***Proposed change affects:*** | UICC apps |  | ME |  | Radio Access Network |  | Core Network | **x** |

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|  | | | | | | | | | | |
| ***Title:*** | Add description on identifier for 5G RG and FN RG | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Huawei | | | | | | | | | |
| ***Source to TSG:*** | S5 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | 5WWC | | | | |  | ***Date:*** | | | 2020-04-23 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | B |  | | | | | ***Release:*** | | | Rel-16 |
|  | *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-12 (Release 12)* *Rel-13 (Release 13) Rel-14 (Release 14) Rel-15 (Release 15) Rel-16 (Release 16)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | This contribution is to add description on SUPI for 5G RG and FN RG. | | | | | | | | |
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| ***Summary of change:*** | | Add description on SUPI for 5G RG and FN RG. | | | | | | | | |
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| ***Consequences if not approved:*** | | No description on identifers for 5WWC scenarios in TS 32.291. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 6.1.6.1 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | |  | **x** | Other core specifications | | | | TS/TR ... CR ... | | |
| ***affected:*** | |  | **x** | Test specifications | | | | TS/TR ... CR ... | | |
| ***(show related CRs)*** | |  | **x** | O&M Specifications | | | | TS/TR ... CR ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

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| ***First change*** |

#### 6.1.6.1 General

This subclause specifies the application data model supported by the API.

The Nchf\_ConvergedCharging Service API allows the NF consumer to consume the converged charging service from the CHF as defined in 3GPP TS 32.290 [58].

Table 6.1.6.1-1 specifies the data types defined for the ConvergedCharging service based interface protocol.

Table 6.1.6.1-1: Nchf\_ ConvergedCharging specific Data Types

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Data type | | Section defined | | Description | | Applicability | |
| ChargingDataRequest | | 6.1.6.2.1.1  6.1.6.2.2.1 | | Describes the attributes of Charging Data Request to CHF for initial, update and termination of the charging session. | |  | |
| ChargingDataResponse | | 6.1.6.2.1.2  6.1.6.2.2.2 | | Describes the attributes of Charging Data Response from CHF on charging session initial, update and termination. | |  | |
| ChargingNotifyRequest | | 6.1.6.2.1.3 | | Describes Notifications about events that occurred in request message. | |  | |
| ChargingNotifyResponse | | 6.1.6.2.1.16 | | Describes the response of notification. | |  | |

Table 6.1.6.1-2 specifies data types re-used by the Nchf\_ConvergedCharging service based interface protocol from other specifications, including a reference to their respective specifications and when needed, a short description of their use within the Nchf\_ConvergedCharging service based interface.

Table 6.1.6.1-2: Nchf\_ConvergedCharging re-used Data Types

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | Reference | Comments | Applicability |
| Supi | 3GPP TS 29.571 [371] | The identification of the user (i.e. IMSI, NAI, GLI, GCI).  (NOTE 1) |  |
| Uint32 | 3GPP TS 29.571 [371] | Unsigned 32-bit integers |  |
| Uint64 | 3GPP TS 29.571 [371] | Unsigned 64-bit integers |  |
| PduSessionId | 3GPP TS 29.571 [371] | The identification of the PDU session. |  |
| PduSessionType | 3GPP TS 29.571 [371] | the type of a PDU session |  |
| Uri | 3GPP TS 29.571 [371] | String providing an URI |  |
| AccessType | 3GPP TS 29.571 [371] | The identification of the type of access network. |  |
| DateTime | 3GPP TS 29.571 [371] | The time. |  |
| ChargingId | 3GPP TS 29.571 [371] | Charging identifier allowing correlation of charging information |  |
| RatType | 3GPP TS 29.571 [371] | The identification of the RAT type. |  |
| RatingGroup | 3GPP TS 29.571 [371] | The identification of the rating group |  |
| Ipv4Addr | 3GPP TS 29.571 [371] | Ipv4 address. |  |
| Ipv6Prefix | 3GPP TS 29.571 [371] | The Ipv6 prefix allocated for the user. |  |
| Ipv6Addr | 3GPP TS 29.571 [371] | Ipv6 Address. |  |
| Pei | 3GPP TS 29.571 [371] | The Identification of a Permanent Equipment. |  |
| TimeZone | 3GPP TS 29.571 [371] | Time zone information |  |
| NfInstanceId | 3GPP TS 29.571 [371] | String uniquely identifying a NF instance. |  |
| Gpsi | 3GPP TS 29.571 [371] | String identifying a Gpsi |  |
| DefaultQosInformation | 3GPP TS 29.571 [371] | Identifies the information of the default QoS. |  |
| SubscribedDefaultQos | 3GPP TS 29.571 [371] | subscribed default QoS. |  |
| AuthorizedDefaultQos | 3GPP TS 29.512 [302] | Authorized default QoS. |  |
| Ambr | 3GPP TS 29.571 [371] | Aggregate Maximum Bit rate |  |
| QosData | 3GPP TS 29.512 [302] | Contains QoS parameters |  |
| UserLocation | 3GPP TS 29.571 [371] | User location information |  |
| PlmnId | 3GPP TS 29.571 [371] | PLMN id |  |
| Guami | 3GPP TS 29.571 [371] | Globally Unique AMF Identifier |  |
| DurationSec | 3GPP TS 29.571 [371] | Identifies a period of time in units of seconds. |  |
| Snssai | 3GPP TS 29.571 [371] | SNSSAI |  |
| ProblemDetails | 3GPP TS 29.571 [371] | additional details of the error |  |
| ServiceId | 3GPP TS 29.571 [371] | Identifier of service |  |
| SscMode | 3GPP TS 29.571 [371] | SSC Mode type |  |
| PresenceInfo | 3GPP TS 29.571 [371] | PRA information including PRAId, PRA element list and PRA status |  |
| Qfi | 3GPP TS 29.571 [371] | QoS flow identifier designated as "Qfi". |  |
| AmfId | 3GPP TS 29.571 [371] | AMF identifier |  |
| Dnn | 3GPP TS 29.571 [371] | Data Network Name |  |
| GroupId | 3GPP TS 29.571 [371] | Identifies a group |  |
| Bytes | 3GPP TS 29.571 [371] | String with format "byte" |  |
| Tai | 3GPP TS 29.571 [371] | Tracking Area Identifier |  |
| Area | 3GPP TS 29.571 [371] | List of TACs or Operator specific codes |  |
| CoreNetworkType | 3GPP TS 29.571 [371] | 5GC or EPC |  |
| ServiceAreaRestriction | 3GPP TS 29.571 [371] | Service Area restriction |  |
| GlobalRanNodeId | 3GPP TS 29.571 [371] | Global RAN Node Id |  |
| QosCharacteristics | 3GPP TS 29.512 [302] | Map of QoS characteristics for non standard 5QIs and non-preconfigured 5QIs. |  |
| NOTE 1: A SUPI containing GLI or GCI is used to support 5G-RG and FN-RG in scenarios of wireline network. | | | |

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| **End of change** |