**3GPP TSG-CT WG3 Meeting #141 *C3-252149r1***

**Bratislava, SK, 19 - 23 May 2025**

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| --- |
| *CR-Form-v12.3* |
| **CHANGE REQUEST** |
|  |
|  | **29.519** | **CR** | **0601** | **rev** | **1** | **Current version:** | **19.2.0** |  |
|  |
| *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:***  | Corrections on data types for Application Data |
|  |  |
| ***Source to WG:*** | ZTE |
| ***Source to TSG:*** | CT3 |
|  |  |
| ***Work item code:*** | SBIProtoc19 |  | ***Date:*** | 2025-05-12 |
|  |  |  |  |  |
| ***Category:*** | **F** |  | ***Release:*** | Rel-19 |
|  | *Use one of the following categories:****F*** *(correction)****A*** *(mirror corresponding to a change in an earlier release)****B*** *(addition of feature),* ***C*** *(functional modification of feature)****D*** *(editorial modification)*Detailed explanations of the above categories canbe found in 3GPP [TR 21.900](http://www.3gpp.org/ftp/Specs/html-info/21900.htm). | *Use one of the following releases:Rel-8 (Release 8)Rel-9 (Release 9)Rel-10 (Release 10)Rel-11 (Release 11)…Rel-17 (Release 17)Rel-18 (Release 18)Rel-19 (Release 19) Rel-20 (Release 20)* |
|  |  |
| ***Reason for change:*** | Following issues are identified in 6.4.1:* EcsAddrDataPatch data type is missing from the specific data type table.
* Ipv4AddrRm and Ipv6AddrRm data types are missing from the re-used data type table.
* The applicable feature for ParamForProSeRemUeRm data type is missing.
* The referred data type in description of ParamProSeMultiHopU2URelUeRm is incorrect.
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| ***Summary of change:*** | Fix the issues above. |
|  |  |
| ***Consequences if not approved:*** | Incorrect and incomplete specification. |
|  |  |
| ***Clauses affected:*** | 6.4.1 |
|  |  |
|  | **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 does not have any impact in the OpenAPI specification. |
|  |  |
| ***This CR's revision history:*** |  |

**Additional discussion(if needed):**

**Proposed changes:**

\*\*\* 1st Change \*\*\*

### 6.4.1 General

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

Table 6.4.1-1 specifies the data types defined for the Nudr\_DataRepository Service API for Application Data service-based interface protocol.

Table 6.4.1-1: Nudr\_DataRepository specific Data Types for Application Data

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | Section defined | Description | Applicability |
| AfRequestedQosData | 6.4.2.18 | Represents an AF Requested QoS Data Set. | GMEC |
| AfRequestedQosDataPatch | 6.4.2.19 | Represents the requested modifications to an AF Requested QoS Data Set. | GMEC |
| AmInfluData | 6.4.2.16 | Contains AM influence data. | DCAMP |
| AmInfluDataPatch | 6.4.2.17 | Contains AM influence data that can be updated. | DCAMP |
| ApplicationDataSubs | 6.4.2.10 | Contains application data subscription data. |  |
| ApplicationDataChangeNotif | 6.4.2.11 | Contains the new or updated application data or removed indication. |  |
| BdtPolicyData | 6.4.2.7 | Contains applied BDT policy data. | EnhancedBackgroundDataTransfer |
| BdtPolicyDataPatch | 6.4.2.8 | Contains modification instructions to be performed on the applied BDT policy data. | EnhancedBackgroundDataTransfer |
| CorrelationType | 6.4.3.4 | Indicates that the EAS(es) corresponding to a common DNAI or common EAS should be selected | CommonEASDNAI |
| DataInd | 6.4.3.3 | Indicates the type of data. |  |
| DataFilter | 6.4.2.12 | Indicates an application data filter. |  |
| DnaiEasInfo | 6.4.2.22 | Contains EAS information for a DNAI. | DnaiEasMappings |
| DnaiEasMapping | 6.4.2.21 | Contains DNAI(s) to EAS mapping. | DnaiEasMappings |
| EcsAddrData | 6.4.2.23 | Represents ECS Address Configuration Data. | HR-SBO |
| EcsAddrDataPatch | 6.4.2.23A | Represents the requested modifications to ECS Address Configuration Data. | HR-SBO |
| IptvConfigData | 6.4.2.9 | Represents IPTV configuration data information. |  |
| Non3gppDevInfo | 6.4.2.26 | Represents the Non-3GPP Device Identifier Information. | Non3gppDevice |
| Non3gppDevInfoPatch | 6.4.2.27 | Contains modification instructions to be performed on the Non-3GPP Device Identifier Information | Non3gppDevice |
| PfdDataForAppExt | 6.4.2.6 | The PFDs and related data for the application |  |
| QosRequirements | 6.4.6.24 | Represents QoS requirements. | GMEC |
| QosRequirementsRm | 6.4.6.25 | Represents the same as the QosRequirements data type but:- with the OpenAPI "nullable: true" property; and- with the individual attributes defined with the corresponding nullable data types. | GMEC |
| ServiceParameterData | 6.4.2.15 | Contains the service parameter data. |  |
| TrafficCorrelationInfo | 6.4.2.18 | Contains the information for traffic correlation. | CommonEASDNAI |
| ServiceParameterDataPatch | 6.4.2.15A | Contains the service parameter data that can be updated. |  |
| TrafficInfluData | 6.4.2.2 | Contains traffic influence data. |  |
| TrafficInfluDataPatch | 6.4.2.3 | Contains modification instructions to be performed on the traffic influence data. |  |
| TrafficInfluDataNotif | 6.4.2.14 | Contains traffic influence data for notification. | EnhancedInfluDataNotification |
| TrafficInfluSub | 6.4.2.4 | Contains traffic influence subscription data. |  |

Table 6.4.1-2 specifies data types re-used by the Nudr\_DataRepository Service API for Application Data 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 Nudr\_DataRepository Service API for Application Data service based interface.

Table 6.4.1-2: Nudr\_DataRepository re-used Data Types for Application Data

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | Reference | Comments | Applicability |
| 5QiPriorityLevel | 3GPP TS 29.571 [7] | Represents the 5QI Priority Level | GMEC |
| 5QiPriorityLevelRm | 3GPP TS 29.571 [7] | Represents the 5QI Priority Level. This data type is defined in the same way as the "5QiPriorityLevel" data type, but with the OpenAPI "nullable: true" property. | GMEC |
| A2xParamsPc5 | 3GPP TS 29.522 [19] | Contains the A2X service parameters data provisioned over PC5 reference point. | A2X |
| A2xParamsPc5Rm | 3GPP TS 29.522 [19] | This data type is defined in the same way as the A2xParamsPc5 data type, but with the OpenAPI nullable property set to true. | A2X |
| A2xParamsUu | 3GPP TS 29.522 [19] | Contains the A2X service parameters data provisioned over Uu reference point. | A2X |
| A2xParamsUuRm | 3GPP TS 29.522 [19] | This data type is defined in the same way as the A2xParamsUu data type, but with the OpenAPI nullable property set to true. | A2X |
| AfHeaderHandlingControlInfo | 3GPP TS 29.514 [52] | Represents the header handling control information. | HeaderHandling |
| AmInfluEvent | 3GPP TS 29.522 [19] | Identifies the type of AM related events of which the AF requests to be notified. |  |
| AlternativeServiceRequirementsData | 3GPP TS 29.514 [52] | Contains alternative QoS related parameters and a reference to them. | GMEC |
| ApplicationId | 3GPP TS 29.571 [7] | Indicates an application identifier. |  |
| BdtReferenceId | 3GPP TS 29.122 [9] | Identifies a selected policy of background data transfer. | EnhancedBackgroundDataTransfer |
| BitRate | 3GPP TS 29.571 [7] | Represent a bitrate. | GMEC |
| BitRateRm | 3GPP TS 29.571 [7] | Represent a bitrate. This data type is defined in the same way as the "BitRate" data type, but with the OpenAPI nullable property set to true. | GMEC |
| DateTime | 3GPP TS 29.571 [7] | Indicates a date and time. |  |
| DateTimeRm | 3GPP TS 29.571 [7] | Indicates a date and time that can be updated. |  |
| Dnai | 3GPP TS 29.571 [7] | Represents a DNAI. | DnaiEasMappings |
| DnaiChangeType | 3GPP TS 29.571 [7] | Describes the types of DNAI change. |  |
| Dnn | 3GPP TS 29.571 [7] | Identifies a Data Network Name. (NOTE 2) |  |
| DnnSnssaiInformation | 3GPP TS 29.522 [19] | Represents a DNN, S-NSSAI combination. | DCAMP |
| DurationSec | 3GPP TS 29.571 [7] | Represents a duration in seconds. | DCAMPCachingTimer |
| DurationSecRm | 3GPP TS 29.571 [7] | Represents a removable duration in seconds. | DCAMP |
| EcsAuthMethod | 3GPP TS 29.503 [30] | Represents the ECS Authentication Methods. | HR-SBO |
| EasDeployInfoData | 3GPP TS 29.591 [23] | Represnts the EAS Deployment Information. | EasDeployment |
| EcsServerAddr | 3GPP TS 29.571 [7] | Represents the Edge Configuration Server (ECS) address configuration information. | HR-SBO |
| EthFlowDescription | 3GPP TS 29.514 [16] | Contains the definition of the packet filter for an Ethernet data flow.(NOTE 1). |  |
| EthFlowInfo | 3GPP TS 29.122 [9] | Represents Ethernet service data flow information. | GMEC |
| Event | 3GPP TS 29.522 [19] | Contains the outcome of the UE Policy Delivery related to the invocation of AF provisioned service parameters. | DeliveryOutcome |
| EventsSubscReqData | 3GPP TS 29.514 [16] | Represents the events that the application subscribes to. | GMEC |
| EventsSubscReqDataRm | 3GPP TS 29.514 [16] | This data type is defined in the same way as the EventsSubsReqData data type, but with the OpenAPI "nullable: true" property. | GMEC |
| ExtMaxDataBurstVol | 3GPP TS 29.571 [7] | Represents the Maximum Data Burst Volume, expressed in Bytes.Minimum = 4096. Maximum = 2000000. | GMEC |
| ExtMaxDataBurstVolRm | 3GPP TS 29.571 [7] | Represents the Maximum Data Burst Volume, expressed in Bytes.Minimum = 4096. Maximum = 2000000.This data type is defined in the same way as the "ExtMaxDataBurstVol" data type, but with the OpenAPI "nullable: true" property. | GMEC |
| FlowInfo | 3GPP TS 29.122 [9] | Contains the flow information. |  |
| FqdnPatternMatchingRule | 3GPP TS 29.571 [7] | Identifies an FQDN pattern matching rule. | DnaiEasMappings |
| GroupId | 3GPP TS 29.571 [7] | Identifies a group of users. | EasDeployment |
| IpAddr | 3GPP TS 29.571 [7] | IP address and/or prefix. | DnaiEasMappings |
| IptvConfigDataPatch | 3GPP TS 29.522 [19] | Contains the IPTV configuration data used for PATCH. |  |
| Ipv4Addr | 3GPP TS 29.571 [7] | Identifies an IPv4 address. |  |
| Ipv4AddrRm | 3GPP TS 29.571 [7] | Identifies an IPv4 address. This data type is defined in the same way as the "Ipv4Addr" data type, but with the OpenAPI "nullable: true" property. | CommonEASDNAI |
| Ipv6Addr | 3GPP TS 29.571 [7] | Identifies an IPv6 address. |  |
| Ipv6AddrRm | 3GPP TS 29.571 [7] | Identifies an IPv6 address. This data type is defined in the same way as the "Ipv6Addr" data type, but with the OpenAPI "nullable: true" property. | CommonEASDNAI |
| Link | 3GPP TS 29.122 [9] | Identifies a referenced resource. | HR-SBO |
| MacAddr48 | 3GPP TS 29.571 [7] | MAC Address. |  |
| MaxDataBurstVol | 3GPP TS 29.571 [7] | Represents Maximum Data Burst Volume expressed in Bytes.Minimum = 1. Maximum = 4095. | GMEC |
| MaxDataBurstVolRm | 3GPP TS 29.571 [7] | Represents Maximum Data Burst Volume expressed in Bytes.Minimum = 1. Maximum = 4095.This data type is defined in the same way as the "MaxDataBurstVol" data type, but with the OpenAPI "nullable: true" property. | GMEC |
| MulticastAccessControl | 3GPP TS 29.522 [19] | Represents the multicast access control information. |  |
| NetworkAreaInfo | 3GPP TS 29.554 [13] | Describes a network area information. |  |
| NetworkDescription | 3GPP TS 29.522 [19] | Represents the description of a PLMN in terms of the PLMN ID, the MCC (and optionally, applicable MNCs) or the indication of any PLMN | VPLMNSpecificURSP |
| Non3gppDeviceInformation | 3GPP TS 29.522 [19] | Represents the Non-3GPP device information. | Non3gppDevice |
| PacketDelBudget | 3GPP TS 29.571 [7] | Represents the Packet Delay Budget expressed in milliseconds.Minimum = 1 | GMEC |
| PacketDelBudgetRm | 3GPP TS 29.571 [7] | Represents the Packet Delay Budget expressed in milliseconds. This data type is defined in the same way as the "PacketDelBudget" data type, but with the OpenAPI "nullable: true" property. | GMEC |
| PacketErrRate | 3GPP TS 29.571 [7] | Represents the Packet Error Rate ( | GMEC |
| PacketErrRateRm | 3GPP TS 29.571 [7] | Represents the Packet Error Rate. This data type is defined in the same way as the "PacketErrRate" data type, but with the OpenAPI "nullable: true" property. | GMEC |
| ParameterOverPc5 | 3GPP TS 29.522 [19] | Contains the V2X service parameters data provisioned over PC5. |  |
| ParameterOverPc5Rm | 3GPP TS 29.522 [19] | This data type is defined in the same way as the ParameterOverPc5 data type, but with the OpenAPI nullable property set to true. |  |
| ParameterOverUu | 3GPP TS 29.522 [19] | Contains the V2X service parameters data provisioned over Uu. |  |
| ParameterOverUuRm | 3GPP TS 29.522 [19] | This data type is defined in the same way as the ParameterOverUu data type, but with the OpenAPI nullable property set to true. |  |
| ParamForProSeDc | 3GPP TS 29.522 [19] | Contains the service parameters for 5G ProSe direct communications. | ProSe |
| ParamForProSeDcRm | 3GPP TS 29.522 [19] | This data type is defined in the same way as the ParamForProSeDc data type, but with the OpenAPI nullable property set to true. | ProSe |
| ParamForProSeDd | 3GPP TS 29.522 [19] | Contains the service parameters for 5G ProSe direct discovery. | ProSe |
| ParamForProSeDdRm | 3GPP TS 29.522 [19] | This data type is defined in the same way as the ParamForProSeDd data type, but with the OpenAPI nullable property set to true. | ProSe |
| ParamForProSeEndUe | 3GPP TS 29.522 [19] | Contains the service parameters for 5G ProSe End UE supporting 5G ProSe Layer-2 and/or Layer-3 UE-to-UE Relay. | ProSe\_Ph2 |
| ParamForProSeEndUeRm | 3GPP TS 29.522 [19] | This data type is defined in the same way as the ParamForProSeEndUe data type, but with the OpenAPI nullable property set to true. | ProSe\_Ph2 |
| ParamForProSeRemUe | 3GPP TS 29.522 [19] | Contains the service parameters for 5G ProSe remote UE supporting 5G ProSe Layer-2 and/or Layer-3 UE-to-Network Relay. | ProSe |
| ParamForProSeRemUeRm | 3GPP TS 29.522 [19] | This data type is defined in the same way as the ParamForProSeRemUe data type, but with the OpenAPI nullable property set to true. | ProSe |
| ParamForProSeU2NRelUe | 3GPP TS 29.522 [19] | Contains the service parameters for 5G ProSe UE-to-network relay UE supporting 5G ProSe Layer-2 and/or Layer-3 UE-to-Network Relay. | ProSe |
| ParamForProSeU2NRelUeRm | 3GPP TS 29.522 [19] | This data type is defined in the same way as the ParamForProSeU2NRelUe data type, but with the OpenAPI nullable property set to true. | ProSe |
| ParamForProSeU2URelUe | 3GPP TS 29.522 [19] | Contains the service parameters for 5G ProSe UE-to-UE Relay UE supporting 5G ProSe Layer-2 and/or Layer-3 UE-to-UE Relay. | ProSe\_Ph2 |
| ParamForProSeU2URelUeRm | 3GPP TS 29.522 [19] | This data type is defined in the same way as the ParamForProSeU2URelUe data type, but with the OpenAPI nullable property set to true. | ProSe\_Ph2 |
| ParamProSeMultiHopEndUe | 3GPP TS 29.522 [19] | Represents the service parameters for 5G ProSe End UE supporting 5G ProSe Layer-3 multi-hop UE-to-UE Relay. | ProSe\_Ph3 |
| ParamProSeMultiHopEndUeRm | 3GPP TS 29.522 [19] | This data type is defined in the same way as the ParamProSeMultiHopEndUe data type, but with the OpenAPI nullable property set to "true". | ProSe\_Ph3 |
| ParamProSeMultiHopU2NRelUe | 3GPP TS 29.522 [19] | Contains the service parameters for 5G ProSe UE-to-Network Relay UE supporting 5G ProSe Layer-2 and/or Layer-3 multi-hop UE-to-Network Relay. | ProSe\_Ph3 |
| ParamProSeMultiHopU2NRelUeRm | 3GPP TS 29.522 [19] | This data type is defined in the same way as the ParamProSeMultiHopU2NRelUe data type, but with the OpenAPI nullable property set to "true". | ProSe\_Ph3 |
| ParamProSeMultiHopU2URelUe | 3GPP TS 29.522 [19] | Represents the service parameters for 5G ProSe UE-to-UE Relay UE supporting 5G ProSe Layer-3 multi-hop UE-to-UE Relay. | ProSe\_Ph3 |
| ParamProSeMultiHopU2URelUeRm | 3GPP TS 29.522 [19] | This data type is defined in the same way as the ParamProSeMultiHopU2URelUe data type, but with the OpenAPI nullable property set to "true". | ProSe\_Ph3 |
| ParamProSeMultiHopRemUe | 3GPP TS 29.522 [19] | Contains the service parameters for 5G ProSe Remote UE supporting 5G ProSe Layer-2 and/or Layer-3 multi-hop UE-to-Network Relay. | ProSe\_Ph3 |
| ParamProSeMultiHopRemUeRm | 3GPP TS 29.522 [19] | This data type is defined in the same way as the ParamProSeMultiHopRemUe data type, but with the OpenAPI nullable property set to "true". | ProSe\_Ph3 |
| ParamProSeMultiHopIntermUe | 3GPP TS 29.522 [19] | Contains the service parameters for 5G ProSe Intermediate UE-to-Network Relay supporting 5G ProSe Layer-2 and/or Layer-3 multi-hop UE-to-Network Relay. | ProSe\_Ph3 |
| ParamProSeMultiHopIntermUeRm | 3GPP TS 29.522 [19] | This data type is defined in the same way as the ParamProSeMultiHopIntermUe data type, but with the OpenAPI nullable property set to "true". | ProSe\_Ph3 |
| ParamForRangingSlPos | 3GPP TS 29.522 [19] | Contains the service parameters for ranging and sidelink positioning. | Ranging\_SL |
| ParamForRangingSlPosRm | 3GPP TS 29.522 [19] | This data type is defined in the same way as the "ParamForRangingSlPos" data type, but with the OpenAPI "nullable: true" property. | Ranging\_SL |
| PfdChangeNotification | 3GPP TS 29.551 [8] | Describes the PFD change. |  |
| PfdContent | 3GPP TS 29.551 [8] | Represents the content of a PFD for an application identifier. |  |
| PlmnId | 3GPP TS 29.571 [7] | Identifies a PLMN. | DCAMP\_Roaming\_LBOHR-SBO |
| RouteToLocation | 3GPP TS 29.571 [7] | Identifies the N6 traffic routing requirement. |  |
| ServiceAreaCoverageInfo | 3GPP TS 29.534 [22] | Contains service area coverage information. | DCAMP |
| SliceReplInfo | 3GPP TS 29.534 [22] | Represents the AF requested Network Slice replacement information (e.g. initial S-NSSAI, Alternative S-NSSAI) | AfNetSliceRepl |
| Snssai | 3GPP TS 29.571 [7] | Identifies a Single Network Slice Selection Assistance Information. |  |
| SpatialValidityCond | 3GPP TS 29.571 [7] | Indicates the spatial validity condition. | HR-SBO |
| SubscribedEvent | 3GPP TS 29.522 [19] | Identified the type of UP path management events of which the AF requests to be notified. |  |
| Supi | 3GPP TS 29.571 [7] | Identifies a SUPI that shall contain either an IMSI or an NAI. |  |
| SupportedFeatures | 3GPP TS 29.571 [7] | Used to negotiate the applicability of the optional features. |  |
| TemporalInValidity | 3GPP TS 29.565 [27] | Represents the temporal invalidity conditions. | GMEC |
| TemporalValidity | 3GPP TS 29.514 [16] | Indicates the time interval during which the AF request is to be applied. | MultiTemporalCondition |
| TnapId | 3GPP TS 29.571 [7] | Trusted Network Access Point identifier. | AfGuideTNAPs |
| TrafficDataSet | 3GPP TS 29.522 [19] | Represents a set of traffic filters and the corresponding N6 traffic routing requirements. | MultiTrafficInflu\_Ext1 |
| TrafficDataSetRm | 3GPP TS 29.522 [19] | Represents the same as TrafficDataSet data type, but with the OpenAPI "nullable: true" property. | MultiTrafficInflu\_Ext1 |
| TscaiInputContainer | 3GPP TS 29.514 [16] | Represents the TSCAI Input information container. | GMEC |
| UeIdMappingInfo | 3GPP TS 29.522 [19] | Contains the UE ID mapping information. | Ranging\_SL |
| Uinteger | 3GPP TS 29.571 [7] | Unsigned Integer, i.e. only value 0 and integers greater than 0 are allowed. |  |
| UintegerRm | 3GPP TS 29.571 [7] | This data type is defined in the same way as the "Uinteger" data type, but with the OpenAPI "nullable: true" property. |  |
| Uri | 3GPP TS 29.571 [7] | Identifies a URI. |  |
| UriRm | 3GPP TS 29.571 [7] | Identifies a removable URI. | DCAMP |
| UrspRuleRequest | 3GPP TS 29.522 [19] | Contains service parameter data used to guide the URSP. | AfGuideURSP |
| NOTE 1: In order to support a set of MAC addresses with a specific range in the traffic filter, feature MacAddressRange as specified in clause 6.1.8 of TS 29.504 [6] shall be supported.NOTE 2: The UDR uses the DNN as received from the NF service consumer without applying any transformation. To successfully perform DNN matching, in a specific deployment a DNN shall always be encoded either with the full DNN (e.g., because there are multiple Operator Identifiers for a Network Identifier) or the DNN Network Identifier only. |

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