**3GPP TSG-CT WG3 Meeting #137 *C3-245426***

**Hefei, CN, 14 - 18 October, 2024 (Revision of C3-245353)**

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| *CR-Form-v12.3* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **29.122** | **CR** | **0885** | **rev** | **1** | **Current version:** | **19.0.0** |  |
|  | | | | | | | | |
| *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:*** | Updates to CpProvisioning API and NpConfiguration API | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Ericsson | | | | | | | | | |
| ***Source to TSG:*** | CT3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | NBI19 | | | | |  | ***Date:*** | | | 2024-09-16 |
|  |  | | | |  | |  | | |  |
| ***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:*** | | Features applicability is available in the existing APIs supporting specific data types, while many re-used data types table still missing the feature applicability i.e., no clear on the related feature supporting conditions for the re-used data types especially for the related APIs reused in 5G.  NetworkAreaInfo data type in clause 5.10.2.1.1 is not reused in CpProvisioning API.  NetworkParameterConfiguration API naming in clause 5.13.2.1.1 needs to be corrected. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Adding feature applicability and missing re-used data types in re-used data types table of clauses 5.10.2.1.1 and 5.13.2.1.1.  Remove the not used NetworkAreaInfo data type in clause 5.10.2.1.1.  Corrected NetworkParameterConfiguration API naming as NpConfiguration API in clause 5.13.2.1.1. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Missing feature applicabilities and re-used data types in the re-use data type tables. Not clear and not complete on which data types are re-used and which feature condition applied to the re-used data types in CpProvisioning API and NpConfiguration API.  Wrong NetworkParameterConfiguration API naming in clause 5.13.2.1.1. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 5.10.2.1.1, 5.13.2.1.1 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 impact the OpenAPI files. | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

**Additional discussion(if needed):**

**Proposed changes:**

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

##### 5.10.2.1.1 Introduction

This clause defines data structures to be used in resource representations.

Table 5.10.2.1.1-1 specifies data types re-used by the CpProvisioning API from other specifications, including a reference to their respective specifications and when needed, a short description of their use within the CpProvisioning API.

Table 5.10.2.1.1-1: CpProvisioning API re-used Data Types

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | Reference | Comments | Applicability |
| Dnn | 3GPP TS 29.571 [45] | Identifies a DNN. | UEId\_retrieval |
| IpAddr | 3GPP TS 29.571 [45] | UE IP Address. | UEId\_retrieval |
| MacAddr48 | 3GPP TS 29.571 [45] | MAC Address. | UEId\_retrieval |
| Snssai | 3GPP TS 29.571 [45] | Identifies the S-NSSAI. | UEId\_retrieval |
| TimeWindow | 5.2.1.2.3 | Identifies the time window from the start time to the end time. |  |
| SupportedFeatures | 3GPP TS 29.571 [45] | Used to negotiate the applicability of the optional features defined in table 5.10.4-1. |  |

Table 5.10.2.1.1-2 specifies the data types defined for the CpProvisioning API.

Table 5.10.2.1.1-2: CpProvisioning API specific Data Types

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | Clause defined | Description | Applicability |
| AppExpUeBehaviour | 5.10.2.2.6 | Contains the Application Specific Expected UE Behaviour parameters. | AppExpUeBehaviour |
| BatteryIndication | 5.10.2.3.6 | Represents the type of power consumption. |  |
| CommunicationIndicator | 5.10.2.3.3 | Represents the communication type used by the UE. |  |
| CpFailureCode | 5.10.2.3.5 | Represents the failure reason of the CP parameter provisioning. |  |
| CpInfo | 5.10.2.1.2 | Represents the resources for communication pattern parameter provisioning. |  |
| CpParameterSet | 5.10.2.2.2 | Represents an offered communication pattern parameter set. |  |
| CpReport | 5.10.2.2.4 | Represents a CP report indicating the CP set identifier(s) which CP parameter(s) are not added or modified successfully and the corresponding failure cause(s). |  |
| ScheduledCommunicationTime | 5.10.2.2.3 | Represents an offered scheduled communication time. |  |
| ScheduledCommunicationType | 5.10.2.3.8a | Represents the type of scheduled communication. | ScheduledCommType\_5G |
| StationaryIndication | 5.10.2.3.4 | Indicates whether the UE is stationary or mobile. |  |
| TrafficProfile | 5.10.2.3.7 | Represents the type of data transmission. |  |
| UmtLocationArea5G | 5.10.2.2.5 | Represents the user location area describing the UE moving trajectory. | ExpectedUMT\_5G, ExpectedUmtTime\_5G |

\*\*\* 2nd Change \*\*\*

##### 5.13.2.1.1 Introduction

This clause defines data structures to be used in resource representations.

Table 5.13.2.1.1-1 specifies data types re-used by the NpConfiguration API from other specifications, including a reference to their respective specifications and when needed, a short description of their use within the NpConfiguration API.

Table 5.13.2.1.1-1: NpConfiguration API re-used Data Types

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | Reference | Comments | Applicability |
| Dnn | 3GPP TS 29.571 [45] | Identifies a DNN. | UEId\_retrieval |
| IpAddr | 3GPP TS 29.571 [45] | UE IP Address. | UEId\_retrieval |
| MacAddr48 | 3GPP TS 29.571 [45] | MAC Address. | UEId\_retrieval |
| Snssai | 3GPP TS 29.571 [45] | Identifies an S-NSSAI. | UEId\_retrieval |
| SupportedFeatures | 3GPP TS 29.571 [45] | Used to negotiate the applicability of the optional features defined in table 5.13.4-1. |  |

Table 5.13.2.1.1-2 specifies the data types defined for the NpConfiguration API.

Table 5.13.2.1.1-2: NpConfiguration API specific Data Types

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | Clause defined | Description | Applicability |
| ConfigurationNotification | 5.13.2.1.4 | Represents a configuration result notification. |  |
| NpConfiguration | 5.13.2.1.2 | Represents a network parameters configuration. |  |
| NpConfigurationPatch | 5.13.2.1.3 | Represents parameters used to request the modification of a network parameters configuration resource. |  |

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