**3GPP TSG-CT3 Meeting #134C3-242xxx**

**Changsha, China, 15th – 19st April 2024 was C3-242353**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.2* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **29.521** | **CR** | **0202** | **rev** | **1** | **Current version:** | **18.4.0** |  |
|  | | | | | | | | |
| *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:*** | Move some data types definition to the correct clause | | | | | | | | |
|  |  | | | | | | | | |
| ***Source to WG:*** | Huawei | | | | | | | | |
| ***Source to TSG:*** | CT3 | | | | | | | | |
|  |  | | | | | | | | |
| ***Work item code:*** | SBIProtoc18 | | | | |  | ***Date:*** | | 2024-04-18 |
|  |  | | | |  | |  | |  |
| ***Category:*** | **F** |  | | | | | ***Release:*** | | Rel-18 |
|  | *Use one of the following categories:* ***F*** *(correction)* ***A*** *(mirror corresponding to a change in an earlier release)* ***B*** *(addition of feature),* ***C*** *(functional modification of feature)* ***D*** *(editorial modification)*  Detailed explanations of the above categories can be found in 3GPP [TR 21.900](http://www.3gpp.org/ftp/Specs/html-info/21900.htm). | | | | | | | *Use one of the following releases: Rel-8 (Release 8) Rel-9 (Release 9) Rel-10 (Release 10) Rel-11 (Release 11) … Rel-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)* | |
|  |  | | | | | | | | |
| ***Reason for change:*** | | | The ExtProblemDetails and MbsExtProblemDetails data types are defined under clause 5.6.2 whereas they should be defined under clause 5.6.4. | | | | | | |
|  | | |  | | | | | | |
| ***Summary of change:*** | | | This CR proposes to:   * Move these data types to the correct clause under which they should be defined. | | | | | | |
|  | | |  | | | | | | |
| ***Consequences if not approved:*** | | | * The issue of the ExtProblemDetails and MbsExtProblemDetails data types being defined under the wrong clause remains in the specification and its quality is not improved. | | | | | | |
|  | |  | | | | | | | |
| ***Clauses affected:*** | | 5.6.1, 5.6.2.5, 5.6.2.17, 5.6.4.2 (new clause) , 5.6.4.3 (new clause) | | | | | | | |
|  | |  | | | | | | | |
|  | | **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 descriptions of the APIs defined in this specification. | | | | | | | |
|  | |  | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | |

\* \* \* \* Start of changes \* \* \* \*

### 5.6.1 General

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

Table 5.6.1-1 specifies the data types defined for the Nbsf\_Management service based interface protocol.

Table 5.6.1-1: Nbsf\_Management specific Data Types

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | Section defined | Description | Applicability |
| BindingLevel | 5.6.3.3 | Contains the binding level. |  |
| BindingResp | 5.6.2.6 | Contains the binding information. | SamePcf |
| BsfEvent | 5.6.3.5 | Contains the event notified by the BSF. |  |
| BsfEventNotification | 5.6.2.9 | Contains an event notification. |  |
| BsfNotification | 5.6.2.8 | Contains the notification to the events. |  |
| BsfSubscription | 5.6.2.7 | Contains the event subscription data. |  |
| BsfSubscriptionResp | 5.6.4.1 | Contains the response to the subscription request. It consists of the resource representation within BsfSubscription data type and, if available, the matched observed event within the BsfNotification data type. |  |
| ExtProblemDetails | 5.6.4.2 | Contains the FQDN or IP endpoints of the existing PCF and cause value if there is an existing PCF binding information for the indicated combination. | SamePcf |
| MbsExtProblemDetails | 5.6.4.3 | Represents an extension to the ProblemDetails data structure with additional MBS related information. |  |
| ParameterCombination | 5.6.2.4 | The combination used by the BSF to check whether there is an existing PCF binding information. | SamePcf |
| PcfBinding | 5.6.2.2 | Identifies an Individual PCF for a PDU session binding. |  |
| PcfBindingPatch | 5.6.2.3 | Identifies an Individual PCF for a PDU session binding used for Patch method. | BindingUpdate |
| PcfMbsBinding | 5.6.2.15 | Represents an Individual PCF for an MBS Session binding. |  |
| PcfMbsBindingPatch | 5.6.2.16 | Represents the requested modifications to an Individual PCF for an MBS Session binding. |  |
| PcfForPduSessionInfo | 5.6.2.13 | The information of the PCF for a PDU session. |  |
| PcfForUeBinding | 5.6.2.10 | Identifies an Individual PCF for a UE binding. |  |
| PcfForUeBindingPatch | 5.6.2.11 | Identifies the updates to an Individual PCF for a UE binding. |  |
| PcfForUeInfo | 5.6.2.14 | The information of the PCF for a UE. |  |
| SnssaiDnnPair | 5.6.2.12 | Represents a S-NSSAI and DNN pair. |  |

Table 5.6.1-2 specifies data types re-used by the Nbsf\_Management 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 Nbsf\_Management service based interface.

Table 5.6.1-2: Nbsf\_Management re-used Data Types

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Data type | | Reference | | Comments | | Applicability | |
| DateTime | | 3GPP TS 29.571 [10] | |  | |  | |
| DiameterIdentity | | 3GPP TS 29.571 [10] | |  | |  | |
| Dnn | | 3GPP TS 29.571 [10] | |  | |  | |
| Fqdn | | 3GPP TS 29.571 [10] | |  | |  | |
| Gpsi | | 3GPP TS 29.571 [10] | |  | |  | |
| IpEndPoint | | 3GPP TS 29.510 [12] | |  | |  | |
| Ipv4Addr | | 3GPP TS 29.571 [10] | |  | |  | |
| Ipv4AddrMask | | 3GPP TS 29.571 [10] | | String identifying an IPv4 address mask. | |  | |
| Ipv4AddrRm | | 3GPP TS 29.571 [10] | |  | |  | |
| Ipv6Prefix | | 3GPP TS 29.571 [10] | |  | |  | |
| Ipv6PrefixRm | | 3GPP TS 29.571 [10] | |  | |  | |
| MacAddr48 | | 3GPP TS 29.571 [10] | |  | |  | |
| MacAddr48Rm | | 3GPP TS 29.571 [10] | |  | |  | |
| MbsSessionId | | 3GPP TS 29.571 [10] | | Represents the identifier of an MBS Session. | |  | |
| NfInstanceId | | 3GPP TS 29.571 [10] | |  | |  | |
| NfSetId | | 3GPP TS 29.571 [10] | |  | |  | |
| ProblemDetails | | 3GPP TS 29.571 [10] | | Used in error responses to provide more detailed information about an error. | |  | |
| RedirectResponse | | 3GPP TS 29.571 [10] | | Contains redirection related information. | | ES3XX | |
| Snssai | | 3GPP TS 29.571 [10] | |  | |  | |
| Supi | | 3GPP TS 29.571 [10] | |  | |  | |
| SupportedFeatures | | 3GPP TS 29.571 [10] | | Used to negotiate the applicability of the optional features defined in table 5.8-1. | |  | |

\* \* \* \* Next changes \* \* \* \*

#### 5.6.2.5 Void



\* \* \* \* Next changes \* \* \* \*

#### 5.6.2.17 Void



\* \* \* \* Next changes \* \* \* \*

#### 5.6.4.2 Type ExtProblemDetails

Table 5.6.4.2-1: Definition of type ExtProblemDetails as a list of to be combined data types

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data Type | P | Cardinality | Description | Applicability |
| ProblemDetails | O | 0..1 | Problem Details. |  |
| BindingResp | O | 0..1 | PCF Binding Information. |  |

\* \* \* \* Next changes \* \* \* \*

#### 5.6.4.3 Type MbsExtProblemDetails

Table 5.6.4.3-1: Definition of type MbsExtProblemDetails as a list of to be combined data types

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data Type | P | Cardinality | Description | Applicability |
| ProblemDetails | O | 0..1 | Problem Details. |  |
| MbsBindingResp | O | 0..1 | PCF Binding Information for the MBS Session. |  |

\* \* \* \* End of changes \* \* \* \*