**3GPP TSG-CT WG4 Meeting #107-eC4-216xyz**

**E-Meeting, 15th – 23rd November 2021**

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **29.571** | **CR** | **0abc** | **rev** | **-** | **Current version:** | **16.9.0** |  |
|  | | | | | | | | |
| *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:*** | SnssaiExtension data type definition | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Ericsson | | | | | | | | | |
| ***Source to TSG:*** | CT4 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | SBIProtoc16 | | | | |  | ***Date:*** | | | 2021-11-16 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **F** |  | | | | | ***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-15 (Release 15) Rel-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | The OpenAPI definition of type SnssaiExtension does not reflect the constraints expressed in the normative text in Table 5.4.4.66-1:  - sdRanges and wildcardSd shall not be present simultaneously  - wildcardSd, when present, shall always be set to true  Also, the keyword "default: false" for attribute wildcardSd is misleading, since it could be interpreted as if the absence of wildcardSd is completely equivalent as having the attribute with value false, which is not possible, given that the attribute shall never take value false.  This problem has been observed on the field in several product implementations. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | - Add the constraints expressed in Table 5.4.4.66-1 to the OpenAPI definition of type SnssaiExtension  Other changes:  - Remove the quotes around JSON value ***true***  - Move the description in OpenAPI to the top of the type definition  - Do not add references to specific TS clauses in the description fields (YAML files should be standalone documents, so either add the full TS number along the clause reference, or avoid clause references entirely) | | | | | | | | |
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| ***Consequences if not approved:*** | | Misleading OpenAPI description which might lead to wrong API implementations. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 5.4.4.66, A.2 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 introduces backwards-compatible corrections with impacts on the following OpenAPI specification files:  - TS29571\_CommonData.yaml  - TS29510\_Nnrf\_NFDiscovery.yaml  - TS29510\_Nnrf\_NFManagement.yaml  - TS29518\_Namf\_Communication.yaml  - TS29518\_Namf\_EventExposure.yaml  - TS29531\_Nnssf\_NSSAIAvailability.yaml | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

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

#### 5.4.4.66 Type: SnssaiExtension

Table 5.4.4.66-1: Definition of type SnssaiExtension

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description |
| sdRanges | array(SdRange) | C | 1..N | When present, it shall contain the range(s) of Slice Differentiator values supported for the Slice/Service Type value indicated in the sst attribute of the Snssai data type (see clause 5.4.4.2). |
| wildcardSd | boolean | C | 0..1 | When present, it shall be set to true, to indicate that all SD values are supported for the Slice/Service Type value indicated in the sst attribute of the Snssai data type (see clause 5.4.4.2). |
| NOTE: sdRanges and wildcardSd shall not be present simultaneously. | | | | |

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

## A.2 Data related to Common Data Types

*(... text not shown for clarity ...)*

SnssaiExtension:

description: Extensions to the Snssai data type, sdRanges and wildcardSd shall not be present simultaneously

type: object

not:

required:

- sdRanges

- wildcardSd

properties:

sdRanges:

description: When present, it shall contain the range(s) of Slice Differentiator values supported for the Slice/Service Type value indicated in the sst attribute of the Snssai data type

type: array

items:

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

minItems: 1

wildcardSd:

description: When present, it shall be set to true, to indicate that all SD values are supported for the Slice/Service Type value indicated in the sst attribute of the Snssai data type

type: boolean

enum:

- true

*(... text not shown for clarity ...)*

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