**3GPP TSG-SA5 Meeting #155 *S5-243287***

Jeju, Korea (Republic Of), 27th May 2024 - 31st May 2024

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| --- |
| *CR-Form-v12.1* |
| **CHANGE REQUEST** |
|  |
|  | **28.623** | **CR** | **0373** | **rev** | **-** | **Current version:** | **18.6.0** |  |
|  |
| *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 | **X** | Core Network | **X** |

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|  |
| ***Title:***  | CR 28.623 Rel19 Common data types in YANG |
|  |  |
| ***Source to WG:*** |  |
| ***Source to TSG:*** | S5 |
|  |  |
| ***Work item code:*** |  |  | ***Date:*** | 2024-05-29 |
|  |  |  |  |  |
| ***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 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-15 (Release 15)Rel-16 (Release 16)Rel-17 (Release 17)Rel-18 (Release 18)* |
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| ***Reason for change:*** | Common data types were recently defined on stage2. A number of these datatypes already exist in the stage 3 YANG definitions or in IETF standard YANG modules. A table shall be introduced to specify the mapping between stage 2 data type names and YANG data type names. |
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| ***Summary of change:*** | Add a table to specify the mapping between stage 2 data type names and YANG data type names. |
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| ***Consequences if not approved:*** | Difficult to understand the stage 2 to YANG mapping. |
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| ***Clauses affected:*** | E.2, E.2.a, E.2.b |
|  |  |
|  | **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:*** |  |

***First change***

# E.2 YANG/Netconf-based solution set

### E.2.a NRM properties supported

The YANG module "ietf-yang-library" (RFC 8525 [18]) is available via NETCONF at the "mnsAddress". This YANG module lists the supported YANG modules and related information. The individual supported YANG modules are accessible either via the "ietf-yang-library module" as specified by the leaves "/modules-state/module/schema", "/yang-library/module-set/import-only-module/location" and "/yang-library/module-set/module/location" or via the "ietf-netconf-monitoring module" (RFC 6022 [19]) with the "<get-schema>" operation.

### E.2.b Common data types

Data types in YANG have the same name as in stage 2 also considering the mapping rule in TS 32.160[14] clause 6.2.16.1. There are some data types that do not conform to this rule because the data type was defined by an external organisation (e.g. IETF) or pre-existing YANG definitions exist. The table E.2.b-1 lists the mapping for these exceptions.

**Table E.2.b-1: Mapping of common data types**

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| **Stage-2 Type Name** | **YANG type** | **Description** |
| FullTime | yang:time-with-zone-offset | Defined in ietf-yang-types.yang |
| Float | Decimal64 | Defined in RFC 7950 |
| DnList | types3gpp:DistinguishedName | A list or leaf-list of type types3gpp:DistinguishedNameDefined in \_3gpp-common-yang-types.yang |
| Fqdn | inet:host-name | Defined in ietf-inet-types.yang  |
| Ipv4Addr | inet:ipv4-address | Defined in ietf-inet-types.yang  |
| Ipv6Addr | inet:ipv6-address | Defined in ietf-inet-types.yang |
| Ipv6Prefix | inet:ipv6-prefix | Defined in ietf-inet-types.yang |
| Uri | inet:uri | Defined in ietf-inet-types.yang  |

***End of changes***