**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 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:*** | | 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. | | | | | | | | |
|  | |  | | | | | | | | |
| ***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:DistinguishedName  Defined 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***