**3GPP TSG-SA5 Meeting #131e *S5-203387***

**Online,, 25th May-3rd June 2020**

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| *CR-Form-v12.0* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **28.541** | **CR** | **0318** | **rev** | **-** | **Current version:** | **16.4.1** |  |
|  | | | | | | | | |
| *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 |  |

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| ***Title:*** | Update NRM YANG for 28.541 | | | | | | | | | |
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| ***Source to WG:*** | Ericsson | | | | | | | | | |
| ***Source to TSG:*** | S5 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | eNRM | | | | |  | ***Date:*** | | | 2020-05-15 |
|  |  | | | |  | |  | | |  |
| ***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-12 (Release 12)* *Rel-13 (Release 13) Rel-14 (Release 14) Rel-15 (Release 15) Rel-16 (Release 16)* | |
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| ***Reason for change:*** | | There have been errors in Stage 3 YANG solution where it does not follow stage 2. | | | | | | | | |
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| ***Summary of change:*** | | Add missing attribute gNBIdLength | | | | | | | | |
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| ***Consequences if not approved:*** | | Mismatch between stage 2 and 3. | | | | | | | | |
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| ***Clauses affected:*** | | E.5.17 | | | | | | | | |
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|  | | **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 ... | | |
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| ***Other comments:*** | | This is the stage 3 YANG solution for CR-0315 originally in S5-203283.  Checked locally with pyang –strict  Not present in Forge. | | | | | | | | |
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| ***This CR's revision history:*** | |  | | | | | | | | |

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| **1st Change** |

## E.5.17 module \_3gpp-nr-nrm-gnbcuupfunction.yang

module \_3gpp-nr-nrm-gnbcuupfunction {

yang-version 1.1;

namespace "urn:3gpp:sa5:\_3gpp-nr-nrm-gnbcuupfunction";

prefix "gnbcuup3gpp";

import \_3gpp-common-yang-types { prefix types3gpp; }

import \_3gpp-common-managed-function { prefix mf3gpp; }

import \_3gpp-common-managed-element { prefix me3gpp; }

import \_3gpp-common-top { prefix top3gpp; }

import \_3gpp-nr-nrm-rrmpolicy { prefix nrrrmpolicy3gpp; }

import \_3gpp-nr-nrm-common { prefix nrcommon3gpp; }

organization "3GPP SA5";

contact "https://www.3gpp.org/DynaReport/TSG-WG--S5--officials.htm?Itemid=464";

description "Defines the YANG mapping of the GNBCUUPFunction Information

Object Class (IOC) that is part of the NR Network Resource Model (NRM).";

reference "3GPP TS 28.541 5G Network Resource Model (NRM)";

revision 2020-05-28 { reference "CR-0318"; }

revision 2020-03-12 { reference "SP-200233 S5-201547"; }

revision 2020-02-14 { reference S5-20XXXX ; }

revision 2019-10-28 { reference S5-193518 ; }

revision 2019-08-21 {

description "Initial revision";

}

grouping TAIGrp {

description "Tracking Area Identity";

list pLMNId {

key "mcc mnc";

uses types3gpp:PLMNId;

}

leaf nRTAC {

type int64;

description "Identity of the common Tracking Area Code for the PLMNs

allowedValues:

a) It is the TAC or Extended-TAC.

b) A cell can only broadcast one TAC or Extended-TAC.

See TS 36.300, subclause 10.1.7 (PLMNID and TAC relation).

c) TAC is defined in subclause 19.4.2.3 of 3GPP TS 23.003 and

Extended-TAC is defined in subclause 9.3.1.29 of 3GPP TS 38.473.

d) For a 5G SA (Stand Alone), it has a non-null value.";

}

}

grouping BackhaulAddressGrp {

description "Indicates the backhauladdress of gNB.";

leaf gNBId {

type uint32 {

range "0..4294967295";

}

description "It identifies a gNB within a PLMN. The gNB ID is part of

the NR Cell Identifier (NCI) of the gNB cells.";

reference "gNB Identifier (gNB ID) of subclause 8.2 of TS 38.300.

Global gNB ID in subclause 9.3.1.6 of TS 38.413";

}

list tAI {

key nRTAC;

min-elements 1;

max-elements 1;

description "Tracking Area Identity";

reference "subclause 9.3.3.11 in TS 38.413";

uses TAIGrp;

}

}

grouping MappingSetIDBackhaulAddressGrp {

description "Mapping relationship between setID and backhaulAddress of gNB";

leaf idx {

type uint32 ;

description "ID value";

}

leaf setID {

type uint32;

mandatory true;

description "Indicates the setID of gNB.";

reference "Subclause 7.4.1.6 in TS 38.211";

}

list backhaulAddress {

key gNBId;

min-elements 1;

max-elements 1;

description "Indicates the backhauladdress of gNB.";

uses BackhaulAddressGrp;

}

}

grouping GNBCUUPFunctionGrp {

description "Represents the GNBCUUPFunction IOC.";

reference "3GPP TS 28.541";

uses mf3gpp:ManagedFunctionGrp;

uses nrrrmpolicy3gpp:RRMPolicy\_Grp;

leaf gNBCUUPId {

type uint64 {

range "0..68719476735" ;

}

config false;

mandatory true;

description "Identifies the gNB-CU-UP at least within a gNB-CU-CP";

reference "'gNB-CU-UP ID' in subclause 9.3.1.15 of 3GPP TS 38.463";

}

leaf gNBId {

type uint32;

mandatory true;

description "Identifies a gNB within a PLMN. The gNB ID is part of the

NR Cell Identifier (NCI) of the gNB cells. ";

reference "gNB Identifier (gNB ID) of subclause 8.2 of TS 38.300.

Global gNB ID" in subclause 9.3.1.6 of TS 38.413";

}

leaf gNBIdLength {

mandatory true;

type int32 { range "22..32"; }

description "Indicates the number of bits for encoding the gNB Id.";

reference "gNB Id in 3GPP TS 38.300, Global gNB ID in 3GPP TS 38.413";

}

list pLMNInfoList {

description "The PLMNInfoList is a list of PLMNInfo data type. It defines which PLMNs that

can be served by the GNBCUUPFunction and which S-NSSAIs can be supported by the

GNBCUUPFunction for corresponding PLMN in case of network slicing feature is supported";

key "mcc mnc";

uses nrcommon3gpp:PLMNInfo;

}

list mappingSetIDBackhaulAddressList {

key idx;

description "Specifies a list of mappingSetIDBackhaulAddress used to

retrieve the backhaul address of the victim set.

Must be present if Remote Interference Management function is supported.";

uses MappingSetIDBackhaulAddressGrp;

}

}

augment "/me3gpp:ManagedElement" {

list GNBCUUPFunction {

key id;

description "Represents the logical function CU-UP of gNB or en-gNB.";

reference "3GPP TS 28.541";

uses top3gpp:Top\_Grp;

container attributes {

uses GNBCUUPFunctionGrp;

}

uses mf3gpp:ManagedFunctionContainedClasses;

}

}

}

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| **Next Change** |

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| **End of Change** |