**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** |  |
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| *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 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-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 –strictNot 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** |