**3GPP TSG- Meeting #**

**, -**  Revision of S5-211492

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  |  | **CR** |  | **rev** | **2** | **Current version:** |  |  |
|  | | | | | | | | |
| *For* [***HELP***](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:*** | Rel-16 CR TS 28.541 Correct the NF name in definition of EP\_NgU | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** |  | | | | | | | | | |
| ***Source to TSG:*** | S5 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** |  | | | | |  | ***Date:*** | | |  |
|  |  | | | |  | |  | | |  |
| ***Category:*** |  |  | | | | | ***Release:*** | | |  |
|  | *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)* | |
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| ***Reason for change:*** | | The definition in 4.3.10 of EP\_NgC is “This IOC represents the local end point of the control plane interface (NG-C) between the gNB and NG-Core entity.” But in 4.3.11, EP\_NgU represents the local end point of the NG user plane (NG-U) interface between the gNB and the UPGW. “UPGW” is not defined in 5GS. “UPGW” should be corrected. | | | | | | | | |
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| ***Summary of change:*** | | Correcting the NF name in definition of EP\_NgU. | | | | | | | | |
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| ***Consequences if not approved:*** | | The definition for EP\_NgU is not correct. | | | | | | | | |
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| ***Clauses affected:*** | | 4.3.11.1, E.5.2 | | | | | | | | |
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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 ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

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| **1st change** |

### 4.3.11 EP\_NgU

#### 4.3.11.1 Definition

This IOC represents the local end point of the NG user plane (NG-U) interface between the gNB and UPF. The interface provides non‑guaranteed delivery of user plane PDUs between the gNB and UPF. GTP-U is baseline for this interface.

3GPP TS 38.470 [7] noted that "one gNB-CU and a set of gNB-DUs are visible to other logical nodes as a gNB or an en-gNB where the gNB terminates the Xn and the NG interfaces, and the en-gNB terminates the X2 and the S1-U interfaces".

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| **Next change** |

## E.5.2 module\_3gpp-nr-nrm-ep.yang

module \_3gpp-nr-nrm-ep {

yang-version 1.1;

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

prefix "ep3gpp";

import \_3gpp-common-ep-rp { prefix eprp3gpp; }

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

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

import \_3gpp-nr-nrm-gnbcucpfunction { prefix gnbcucp3gpp; }

import \_3gpp-nr-nrm-gnbcuupfunction { prefix gnbcuup3gpp; }

import \_3gpp-nr-nrm-gnbdufunction { prefix gnbdu3gpp; }

organization "3GPP SA5";

description "Defines the YANG mapping of the NR related endpoint

Information Object Classes (IOCs) that are part of the NR Network

Resource Model (NRM).";

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

revision 2021-03-02 { reference CR-0434; }

revision 2020-11-02 { reference CR-0409 ; }

revision 2020-03-02 { reference S5-201191; }

revision 2019-06-17 { reference "Initial revision"; }

grouping EP\_E1Grp {

description "Represents the EP\_E1 IOC.";

reference "3GPP TS 28.541, 3GPP TS 38.401";

uses eprp3gpp:EP\_Common;

}

grouping EP\_F1CGrp {

description "Represents the EP\_F1C IOC.";

reference "3GPP TS 28.541, 3GPP TS 38.470";

uses eprp3gpp:EP\_Common;

}

grouping EP\_F1UGrp {

description "Represents the EP\_F1U IOC.";

reference "3GPP TS 28.541, 3GPP TS 38.470";

uses eprp3gpp:EP\_Common;

}

grouping EP\_XnCGrp {

description "Represents the EP\_XnC IOC.";

reference "3GPP TS 28.541, 3GPP TS 38.420";

uses eprp3gpp:EP\_Common;

}

grouping EP\_XnUGrp {

description "Represents the EP\_XnU IOC.";

reference "3GPP TS 28.541, 3GPP TS 38.420";

uses eprp3gpp:EP\_Common;

}

grouping EP\_NgCGrp {

description "Represents the EP\_NgC IOC.";

reference "3GPP TS 28.541, 3GPP TS 38.470";

uses eprp3gpp:EP\_Common;

}

grouping EP\_NgUGrp {

description "Represents the EP\_NgU IOC.";

reference "3GPP TS 28.541, 3GPP TS 38.470";

uses eprp3gpp:EP\_Common;

}

grouping EP\_X2CGrp {

description "Represents the EP\_X2C IOC.";

reference "3GPP TS 28.541, 3GPP TS 36.423";

uses eprp3gpp:EP\_Common;

}

grouping EP\_X2UGrp {

description "Represents the EP\_X2U IOC.";

reference "3GPP TS 28.541, 3GPP TS 36.425";

uses eprp3gpp:EP\_Common;

}

grouping EP\_S1UGrp {

description "Represents the EP\_S1U IOC.";

reference "3GPP TS 28.541, 3GPP TS 36.410";

uses eprp3gpp:EP\_Common;

}

augment "/me3gpp:ManagedElement/gnbcucp3gpp:GNBCUCPFunction" {

list EP\_E1 {

description "Represents the local end point of the logical link,

supporting E1 interface between gNB-CU-CP and gNB-CU-UP.";

reference "3GPP TS 28.541, 3GPP TS 38.401";

key id;

uses top3gpp:Top\_Grp;

container attributes {

uses EP\_E1Grp;

}

}

list EP\_F1C {

description "Represents the local end point of the control plane

interface (F1-C) between the DU and CU or CU-CP.";

reference "3GPP TS 28.541, 3GPP TS 38.470";

key id;

uses top3gpp:Top\_Grp;

container attributes {

uses EP\_F1CGrp;

}

}

list EP\_NgC {

description "Represents the local end point of the control plane

interface (NG-C) between the gNB and NG-Core entity.";

reference "3GPP TS 28.541, 3GPP TS 38.470";

key id;

uses top3gpp:Top\_Grp;

container attributes {

uses EP\_NgCGrp;

}

}

list EP\_XnC {

description "Represents the local gNB node end point of the logical

link, supporting Xn application protocols, to a neighbour NG-RAN node

(including gNB and ng-eNB). The Xn Application PDUs are carried over

SCTP/IP/Data link layer/Physical layer stack.";

reference "3GPP TS 28.541, 3GPP TS 38.420 subclause 7";

key id;

uses top3gpp:Top\_Grp;

container attributes {

uses EP\_XnCGrp;

}

}

list EP\_X2C {

description "Represents the local end point of the logical link,

supporting X2-C application protocols used in EN-DC, to a neighbour

eNB or en-gNB node.";

reference "3GPP TS 28.541, 3GPP TS 36.423";

key id;

uses top3gpp:Top\_Grp;

container attributes {

uses EP\_X2CGrp;

}

}

}

augment "/me3gpp:ManagedElement/gnbcuup3gpp:GNBCUUPFunction" {

list EP\_E1 {

description "Represents the local end point of the logical link,

supporting E1 interface between gNB-CU-CP and gNB-CU-UP.";

reference "3GPP TS 28.541, 3GPP TS 38.401";

key id;

uses top3gpp:Top\_Grp;

container attributes {

uses EP\_E1Grp;

}

}

list EP\_F1U {

description "Represents the local end point of the user plane

interface (F1-U) between the DU and CU or CU-UP.";

reference "3GPP TS 28.541, 3GPP TS 38.470";

key id;

uses top3gpp:Top\_Grp;

container attributes {

uses EP\_F1UGrp;

}

}

list EP\_NgU {

description "Represents the local end point of the NG user plane

(NG-U) interface between the gNB and UPF.";

reference "3GPP TS 28.541, 3GPP TS 38.470";

key id;

uses top3gpp:Top\_Grp;

container attributes {

uses EP\_NgUGrp;

}

}

list EP\_XnU {

description "Represents the one end-point of a logical link supporting

the Xn user plane (Xn-U) interface. The Xn-U interface provides

non-guaranteed delivery of user plane PDUs between two NG-RAN nodes.";

reference "3GPP TS 28.541, 3GPP TS 38.420";

key id;

uses top3gpp:Top\_Grp;

container attributes {

uses EP\_XnUGrp;

}

}

list EP\_X2U {

description "Represents the local end-point of a logical link supporting

the X2 user plane (X2-U) interface used in EN-DC.";

reference "3GPP TS 28.541, 3GPP TS 36.425";

key id;

uses top3gpp:Top\_Grp;

container attributes {

uses EP\_X2UGrp;

}

}

list EP\_S1U {

description "Represents the local end point of the logical link,

supporting S1-U interface towards a S-GW node.";

reference "3GPP TS 28.541, 3GPP TS 36.410";

key id;

uses top3gpp:Top\_Grp;

container attributes {

uses EP\_S1UGrp;

}

}

}

augment "/me3gpp:ManagedElement/gnbdu3gpp:GNBDUFunction" {

list EP\_F1C {

description "Represents the local end point of the control plane

interface (F1-C) between the DU and CU or CU-CP.";

reference "3GPP TS 28.541, 3GPP TS 38.470";

key id;

uses top3gpp:Top\_Grp;

container attributes {

uses EP\_F1CGrp;

}

}

list EP\_F1U {

description "Represents the local end point of the user plane

interface (F1-U) between the DU and CU or CU-UP.";

reference "3GPP TS 28.541, 3GPP TS 38.470";

key id;

uses top3gpp:Top\_Grp;

container attributes {

uses EP\_F1UGrp;

}

}

}

}

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| **End of changes** |