**3GPP TSG- Meeting #**

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| --- |
| *CR-Form-v12.3* |
| **CHANGE REQUEST** |
|  |
|  |  | **CR** |  | **rev** |  | **Current version:** |  |  |
|  |
| *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** |

|  |
| --- |
|  |
| ***Title:***  |  |
|  |  |
| ***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 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-17 (Release 17)Rel-18 (Release 18)Rel-19 (Release 19) Rel-20 (Release 20)* |
|  |  |
| ***Reason for change:*** | YANG SS is not matching the approved stage 2. |
|  |  |
| ***Summary of change:*** | Update YANG code to match existing stage 2. |
|  |  |
| ***Consequences if not approved:*** | Stage 2 and Stage 3 mismatch; interoperability problems. |
|  |  |
| ***Clauses affected:*** | Forge only |
|  |  |
|  | **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:*** | Forge MR link: <https://forge.3gpp.org/rep/sa5/MnS/-/merge_requests/1339> at commit 3f911d913dbd07e919d5901c46027b651a0ff6b4 |
|  |  |
| ***This CR's revision history:*** |  |

\*\*\* START OF CHANGE 1 \*\*\*

\*\*\* yang-models/\_3gpp-5gc-nrm-ep.yang \*\*\*

<CODE BEGINS>

module \_3gpp-5gc-nrm-ep {

 yang-version 1.1;

 namespace "urn:3gpp:tsg:sa5:nrm:\_3gpp-5gc-nrm-ep";

 prefix "cep3gpp";

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

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

 import \_3gpp-5gc-nrm-affunction { prefix af3gpp; }

 import \_3gpp-5gc-nrm-amffunction { prefix amf3gpp; }

 import \_3gpp-5gc-nrm-ausffunction { prefix ausf3gpp; }

 import \_3gpp-5gc-nrm-dnfunction { prefix dn3gpp; }

 import \_3gpp-5gc-nrm-lmffunction { prefix lmf3gpp; }

 import \_3gpp-5gc-nrm-n3iwffunction { prefix n3iwf3gpp; }

 import \_3gpp-5gc-nrm-ngeirfunction { prefix ngeir3gpp; }

 import \_3gpp-5gc-nrm-nrffunction { prefix nrf3gpp; }

 import \_3gpp-5gc-nrm-nssffunction { prefix nssf3gpp; }

 import \_3gpp-5gc-nrm-pcffunction { prefix pcf3gpp; }

 import \_3gpp-5gc-nrm-seppfunction { prefix sepp3gpp; }

 import \_3gpp-5gc-nrm-smffunction { prefix smf3gpp; }

 import \_3gpp-5gc-nrm-smsffunction { prefix smsf3gpp; }

 import \_3gpp-5gc-nrm-udmfunction { prefix udm3gpp; }

 import \_3gpp-5gc-nrm-upffunction { prefix upf3gpp; }

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

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

 import ietf-inet-types { prefix inet; }

 organization "3GPP SA5";

 description "Defines the YANG mapping of the 5GC related endpoint

 Information Object Classes (IOCs) that are part of the 5G Core

 Network Resource Model.

 Copyright 2024, 3GPP Organizational Partners (ARIB, ATIS, CCSA, ETSI, TSDSI,

 TTA, TTC). All rights reserved.";

 reference "3GPP TS 28.541";

 revision 2024-08-19 { reference CR-1314 ; }

 revision 2023-09-18 { reference CR-1043 ; }

 revision 2019-11-18 {

 description "Ericsson refactoring.";

 }

 revision 2018-07-31 {

 description "Initial revision";

 }

 grouping EP\_N2Grp {

 uses eprp3gpp:EP\_Common;

 }

 grouping EP\_N3Grp {

 uses eprp3gpp:EP\_Common;

 }

 grouping EP\_N4Grp {

 uses eprp3gpp:EP\_Common;

 }

 grouping EP\_N5Grp {

 uses eprp3gpp:EP\_Common;

 }

 grouping EP\_N6Grp {

 uses eprp3gpp:EP\_Common;

 }

 grouping EP\_N7Grp {

 uses eprp3gpp:EP\_Common;

 }

 grouping EP\_N8Grp {

 uses eprp3gpp:EP\_Common;

 }

 grouping EP\_N9Grp {

 uses eprp3gpp:EP\_Common;

 }

 grouping EP\_N10Grp {

 uses eprp3gpp:EP\_Common;

 }

 grouping EP\_N11Grp {

 uses eprp3gpp:EP\_Common;

 }

 grouping EP\_N12Grp {

 uses eprp3gpp:EP\_Common;

 }

 grouping EP\_N13Grp {

 uses eprp3gpp:EP\_Common;

 }

 grouping EP\_N14Grp {

 uses eprp3gpp:EP\_Common;

 }

 grouping EP\_N15Grp {

 uses eprp3gpp:EP\_Common;

 }

 grouping EP\_N16Grp {

 uses eprp3gpp:EP\_Common;

 }

 grouping EP\_N17Grp {

 uses eprp3gpp:EP\_Common;

 }

 grouping EP\_N20Grp {

 uses eprp3gpp:EP\_Common;

 }

 grouping EP\_N21Grp {

 uses eprp3gpp:EP\_Common;

 }

 grouping EP\_N22Grp {

 uses eprp3gpp:EP\_Common;

 }

 grouping EP\_N26Grp {

 uses eprp3gpp:EP\_Common;

 }

 grouping EP\_N27Grp {

 uses eprp3gpp:EP\_Common;

 }

 grouping EP\_N31Grp {

 uses eprp3gpp:EP\_Common;

 }

 grouping EP\_N32Grp {

 uses eprp3gpp:EP\_Common;

 container remotePlmnId {

 description "PLMN Identifiers of the remote sepp.

 The PLMN Identifier is composed of a Mobile Country Code (MCC) and a Mobile Network Code (MNC).";

 uses types3gpp:PLMNId;

 }

 leaf remoteSeppAddress {

 description "The host address of the SEPP.";

 type inet:host;

 }

 leaf remoteSeppId {

 type uint16;

 }

 leaf n32cParas {

 type string;

 }

 leaf n32fPolicy {

 type string;

 }

 leaf withIPX {

 type boolean;

 }

 }

 grouping EP\_S5CGrp {

 uses eprp3gpp:EP\_Common;

 }

 grouping EP\_S5UGrp {

 uses eprp3gpp:EP\_Common;

 }

 grouping EP\_RxGrp {

 uses eprp3gpp:EP\_Common;

 }

 grouping EP\_MAP\_SMSCGrp {

 uses eprp3gpp:EP\_Common;

 }

 grouping EP\_NLSGrp {

 uses eprp3gpp:EP\_Common;

 }

 grouping EP\_NL2Grp {

 uses eprp3gpp:EP\_Common;

 }

 grouping EP\_SBI\_IPXGrp {

 uses eprp3gpp:EP\_Common;

 leaf-list sBIService {

 min-elements 1;

 config false;

 type string;

 }

 }

 augment "/me3gpp:ManagedElement/af3gpp:AFFunction" {

 list EP\_N6 {

 description "Represents the EP\_N6 IOC.";

 key id;

 uses top3gpp:Top\_Grp;

 container attributes {

 uses EP\_N6Grp;

 }

 }

 list EP\_Rx {

 description "Represents the EP\_Rx IOC.";

 key id;

 uses top3gpp:Top\_Grp;

 container attributes {

 uses EP\_RxGrp;

 }

 }

 }

 augment "/me3gpp:ManagedElement/amf3gpp:AMFFunction" {

 list EP\_N2 {

 description "Represents the EP\_N2 IOC.";

 key id;

 uses top3gpp:Top\_Grp;

 container attributes {

 uses EP\_N2Grp;

 }

 }

 list EP\_N8 {

 description "Represents the EP\_N8 IOC.";

 key id;

 uses top3gpp:Top\_Grp;

 container attributes {

 uses EP\_N8Grp;

 }

 }

 list EP\_N11 {

 description "Represents the EP\_N11 IOC.";

 key id;

 uses top3gpp:Top\_Grp;

 container attributes {

 uses EP\_N11Grp;

 }

 }

 list EP\_N12 {

 description "Represents the EP\_N12 IOC.";

 key id;

 uses top3gpp:Top\_Grp;

 container attributes {

 uses EP\_N12Grp;

 }

 }

 list EP\_N14 {

 description "Represents the EP\_N14 IOC.";

 key id;

 uses top3gpp:Top\_Grp;

 container attributes {

 uses EP\_N14Grp;

 }

 }

 list EP\_N15 {

 description "Represents the EP\_N15 IOC.";

 key id;

 uses top3gpp:Top\_Grp;

 container attributes {

 uses EP\_N15Grp;

 }

 }

 list EP\_N17 {

 description "Represents the EP\_N17 IOC.";

 key id;

 uses top3gpp:Top\_Grp;

 container attributes {

 uses EP\_N17Grp;

 }

 }

 list EP\_N20 {

 description "Represents the EP\_N20 IOC.";

 key id;

 uses top3gpp:Top\_Grp;

 container attributes {

 uses EP\_N20Grp;

 }

 }

 list EP\_N22 {

 description "Represents the EP\_N22 IOC.";

 key id;

 uses top3gpp:Top\_Grp;

 container attributes {

 uses EP\_N22Grp;

 }

 }

 list EP\_N26 {

 description "Represents the EP\_N26 IOC.";

 key id;

 uses top3gpp:Top\_Grp;

 container attributes {

 uses EP\_N26Grp;

 }

 }

 list EP\_NLS {

 description "Represents the EP\_NLS IOC.";

 key id;

 uses top3gpp:Top\_Grp;

 container attributes {

 uses EP\_NLSGrp;

 }

 }

 list EP\_NL2 {

 description "Represents the EP\_NL2 IOC.";

 key id;

 uses top3gpp:Top\_Grp;

 container attributes {

 uses EP\_NL2Grp;

 }

 }

 }

 augment "/me3gpp:ManagedElement/ausf3gpp:AUSFFunction" {

 list EP\_N12 {

 description "Represents the EP\_N12 IOC.";

 key id;

 uses top3gpp:Top\_Grp;

 container attributes {

 uses EP\_N12Grp;

 }

 }

 list EP\_N13 {

 description "Represents the EP\_N13 IOC.";

 key id;

 uses top3gpp:Top\_Grp;

 container attributes {

 uses EP\_N13Grp;

 }

 }

 }

 augment "/me3gpp:ManagedElement/dn3gpp:DNFunction" {

 list EP\_N6 {

 description "Represents the EP\_N6 IOC.";

 key id;

 uses top3gpp:Top\_Grp;

 container attributes {

 uses EP\_N6Grp;

 }

 }

 }

 augment "/me3gpp:ManagedElement/lmf3gpp:LMFFunction" {

 list EP\_NLS {

 description "Represents the EP\_NLS IOC.";

 key id;

 uses top3gpp:Top\_Grp;

 container attributes {

 uses EP\_NLSGrp;

 }

 }

 }

 augment "/me3gpp:ManagedElement/n3iwf3gpp:N3IWFFunction" {

 list EP\_N2 {

 description "Represents the EP\_N2 IOC.";

 key id;

 uses top3gpp:Top\_Grp;

 container attributes {

 uses EP\_N2Grp;

 }

 }

 list EP\_N3 {

 description "Represents the EP\_N3 IOC.";

 key id;

 uses top3gpp:Top\_Grp;

 container attributes {

 uses EP\_N3Grp;

 }

 }

 }

 augment "/me3gpp:ManagedElement/ngeir3gpp:NGEIRFunction" {

 list EP\_N17 {

 description "Represents the EP\_N17 IOC.";

 key id;

 uses top3gpp:Top\_Grp;

 container attributes {

 uses EP\_N17Grp;

 }

 }

 }

 augment "/me3gpp:ManagedElement/nrf3gpp:NRFFunction" {

 list EP\_N27 {

 description "Represents the EP\_N27 IOC.";

 key id;

 uses top3gpp:Top\_Grp;

 container attributes {

 uses EP\_N26Grp;

 }

 }

 }

 augment "/me3gpp:ManagedElement/nssf3gpp:NSSFFunction" {

 list EP\_N22 {

 description "Represents the EP\_N22 IOC.";

 key id;

 uses top3gpp:Top\_Grp;

 container attributes {

 uses EP\_N22Grp;

 }

 }

 list EP\_N31 {

 description "Represents the EP\_N31 IOC.";

 key id;

 uses top3gpp:Top\_Grp;

 container attributes {

 uses EP\_N31Grp;

 }

 }

 }

 augment "/me3gpp:ManagedElement/pcf3gpp:PCFFunction" {

 list EP\_N5 {

 description "Represents the EP\_N5 IOC.";

 key id;

 uses top3gpp:Top\_Grp;

 container attributes {

 uses EP\_N5Grp;

 }

 }

 list EP\_N7 {

 description "Represents the EP\_N7 IOC.";

 key id;

 uses top3gpp:Top\_Grp;

 container attributes {

 uses EP\_N7Grp;

 }

 }

 list EP\_N15 {

 description "Represents the EP\_N15 IOC.";

 key id;

 uses top3gpp:Top\_Grp;

 container attributes {

 uses EP\_N15Grp;

 }

 }

 list EP\_N16 {

 description "Represents the EP\_N16 IOC.";

 key id;

 uses top3gpp:Top\_Grp;

 container attributes {

 uses EP\_N16Grp;

 }

 }

 list EP\_Rx {

 description "Represents the EP\_Rx IOC.";

 key id;

 uses top3gpp:Top\_Grp;

 container attributes {

 uses EP\_RxGrp;

 }

 }

 }

 augment "/me3gpp:ManagedElement/sepp3gpp:SEPPFunction" {

 list EP\_N32 {

 description "Represents the EP\_N32 IOC.";

 key id;

 uses top3gpp:Top\_Grp;

 container attributes {

 uses EP\_N32Grp;

 }

 }

 }

 augment "/me3gpp:ManagedElement/smsf3gpp:SMSFFunction" {

 list EP\_N20 {

 description "Represents the EP\_20 IOC.";

 key id;

 uses top3gpp:Top\_Grp;

 container attributes {

 uses EP\_N20Grp;

 }

 }

 list EP\_N21 {

 description "Represents the EP\_N21 IOC.";

 key id;

 uses top3gpp:Top\_Grp;

 container attributes {

 uses EP\_N21Grp;

 }

 }

 list EP\_MAP\_SMSC {

 description "Represents the EP\_MAP\_SMSC IOC.";

 key id;

 uses top3gpp:Top\_Grp;

 container attributes {

 uses EP\_MAP\_SMSCGrp;

 }

 }

 }

 augment "/me3gpp:ManagedElement/smf3gpp:SMFFunction" {

 list EP\_N4 {

 description "Represents the EP\_N4 IOC.";

 key id;

 uses top3gpp:Top\_Grp;

 container attributes {

 uses EP\_N4Grp;

 }

 }

 list EP\_N7 {

 description "Represents the EP\_N7 IOC.";

 key id;

 uses top3gpp:Top\_Grp;

 container attributes {

 uses EP\_N7Grp;

 }

 }

 list EP\_N10 {

 description "Represents the EP\_N10 IOC.";

 key id;

 uses top3gpp:Top\_Grp;

 container attributes {

 uses EP\_N10Grp;

 }

 }

 list EP\_N11 {

 description "Represents the EP\_N11 IOC.";

 key id;

 uses top3gpp:Top\_Grp;

 container attributes {

 uses EP\_N11Grp;

 }

 }

 list EP\_N16 {

 description "Represents the EP\_N16 IOC.";

 key id;

 uses top3gpp:Top\_Grp;

 container attributes {

 uses EP\_N16Grp;

 }

 }

 list EP\_S5C {

 description "Represents the EP\_S5C IOC.";

 key id;

 uses top3gpp:Top\_Grp;

 container attributes {

 uses EP\_S5CGrp;

 }

 }

 }

 augment "/me3gpp:ManagedElement/udm3gpp:UDMFunction" {

 list EP\_N8 {

 description "Represents the EP\_N8 IOC.";

 key id;

 uses top3gpp:Top\_Grp;

 container attributes {

 uses EP\_N8Grp;

 }

 }

 list EP\_N10 {

 description "Represents the EP\_N10 IOC.";

 key id;

 uses top3gpp:Top\_Grp;

 container attributes {

 uses EP\_N10Grp;

 }

 }

 list EP\_N13 {

 description "Represents the EP\_N13 IOC.";

 key id;

 uses top3gpp:Top\_Grp;

 container attributes {

 uses EP\_N13Grp;

 }

 }

 }

 augment "/me3gpp:ManagedElement/upf3gpp:UPFFunction" {

 list EP\_N4 {

 description "Represents the EP\_N4 IOC.";

 key id;

 uses top3gpp:Top\_Grp;

 container attributes {

 uses EP\_N4Grp;

 }

 }

 list EP\_N3 {

 description "Represents the EP\_N3 IOC.";

 key id;

 uses top3gpp:Top\_Grp;

 container attributes {

 uses EP\_N3Grp;

 }

 }

 list EP\_N9 {

 description "Represents the EP\_N9 IOC.";

 key id;

 uses top3gpp:Top\_Grp;

 container attributes {

 uses EP\_N9Grp;

 }

 }

 list EP\_S5U {

 description "Represents the EP\_S5U IOC.";

 key id;

 uses top3gpp:Top\_Grp;

 container attributes {

 uses EP\_S5UGrp;

 }

 }

 list EP\_EP\_N6 {

 description "Represents the EP\_N6 IOC.";

 key id;

 uses top3gpp:Top\_Grp;

 container attributes {

 uses EP\_N6Grp;

 }

 }

 }

}

<CODE ENDS>

\*\*\* END OF CHANGE 1 \*\*\*

\*\*\* START OF CHANGE 5 \*\*\*

\*\*\* yang-models/\_3gpp-nr-nrm-bwpset.yang \*\*\*

<CODE BEGINS>

module \_3gpp-nr-nrm-bwpset {

 yang-version 1.1;

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

 prefix "bwpset3gpp";

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

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

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

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

 organization "3GPP SA5";

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

 description "Defines the YANG mapping of the BWPSet Information Object Class

 (IOC) that is part of the NR Network Resource Model (NRM).

 Copyright 2024, 3GPP Organizational Partners (ARIB, ATIS, CCSA, ETSI, TSDSI,

 TTA, TTC). All rights reserved.";

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

 revision 2024-08-19 { reference CR-1314 ; }

 revision 2023-09-18 { reference CR-1043 ; }

 revision 2022-06-29 { reference CR-0756 ; }

 grouping BWPSetGrp {

 description "Represents the BWPSet IOC.";

 reference "3GPP TS 28.541";

 uses mf3gpp:ManagedFunctionGrp;

 }

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

 list BWPLSett {

 description "Represents a bandwidth part (BWP) set.";

 key id;

 uses top3gpp:Top\_Grp;

 container attributes {

 uses BWPSetGrp;

 }

 uses mf3gpp:ManagedFunctionContainedClasses;

 }

 }

}

<CODE ENDS>

\*\*\* END OF CHANGE 5 \*\*\*

\*\*\* START OF CHANGE 6 \*\*\*

\*\*\* yang-models/\_3gpp-nr-nrm-danrmanagementfunction.yang \*\*\*

<CODE BEGINS>

module \_3gpp-nr-nrm-danrmanagementfunction {

 yang-version 1.1;

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

 prefix "danrmanagementfunction3gpp";

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

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

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

 organization "3GPP SA5";

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

 description "Defines the YANG mapping of the DANRManagementFunction IOC

 that is part of the NR Network Resource Model (NRM).

 Copyright 2024, 3GPP Organizational Partners (ARIB, ATIS, CCSA, ETSI, TSDSI,

 TTA, TTC). All rights reserved.";

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

 revision 2024-08-19 { reference CR-1314 ; }

 revision 2023-09-18 { reference CR-1043 ; }

 revision 2020-05-08 { reference S5-203316; }

 grouping DANRManagementFunctionGrp {

 description "Represents the DANRManagementFunction IOC.";

 leaf intrasystemANRManagementSwitch {

 description "This attribute determines whether the intra-system ANR

 function is activated or deactivated.";

 type boolean;

 }

 leaf intersystemANRManagementSwitch {

 description "This attribute determines whether the inter-system ANR

 function is activated or deactivated.";

 type boolean;

 }

 }

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

 list DANRManagementFunction {

 description "This IOC contains attributes to support the D-SON function

 of ANR Management (See clause 6.4.1.3 in TS 28.313 .";

 key id;

 uses top3gpp:Top\_Grp;

 container attributes {

 uses DANRManagementFunctionGrp;

 }

 }

 }

}

<CODE ENDS>

\*\*\* END OF CHANGE 6 \*\*\*