**3GPP TSG-SA5 Meeting #156 *S5-244882***

**Maastricht, Netherlands, 19th Aug 2024 - 23rd Aug 2024**

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| *CR-Form-v12.3* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  | **28.541** | **CR** | **1353** | **rev** | **-** | **Current version:** | **19.0.0** |  |
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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 | **x** |

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| ***Title:*** | Rel-19 CR TS 28.541Correct AIML associations | | | | | | | | | |
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| ***Source to WG:*** | Ericsson LM | | | | | | | | | |
| ***Source to TSG:*** | SA5 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | AIML\_MGT | | | | |  | ***Date:*** | | | 2024-08-09 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **A** |  | | | | | ***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-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)  Rel-20 (Release 20)* | |
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| ***Reason for change:*** | | AIML Support for AnLFFunction is missing however the attributes MLModelRefList and AIMLInferenceFunctionRef are not defined in attribute property table 4.4.1 and defined in 5.4.1 | | | | | | | | |
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| ***Summary of change:*** | | Add AIML Support for AnLFFunction in clause 5.3.226 and add attributes MLModelRefList and AIMLInferenceFunctionRef in attrbute property table 4.4.1. Align stage 3 YAML and Yang to with stage 2. | | | | | | | | |
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| ***Consequences if not approved:*** | | lead to incorrect and incomplete implementation. | | | | | | | | |
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| ***Clauses affected:*** | | 5.3.226.2, 4.4.1 ,  OpenAPI/TS28541\_5GcNrm.yaml,  yang-models/\_3gpp-5gc-nrm-anlffunction.yang,  yang-models/\_3gpp-nr-nrm-dmrofunction.yang,  yang-models/\_3gpp-nr-nrm-desmanagementfunction.yang and  yang-models/\_3gpp-nr-nrm-dlbofunction.yang | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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:*** | | YAML  Forge MR link: <https://forge.3gpp.org/rep/sa5/MnS/-/merge_requests/1221> at commit b9b7ee593b07b90a65bb350044bc71f230f82d6f  YANG  Forge MR link: <https://forge.3gpp.org/rep/sa5/MnS/-/merge_requests/1321> at commit a5bedd3077e5154b424e0fee3d46f4e16ffa884e | | | | | | | | |
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| ***This CR's revision history:*** | |  | | | | | | | | |

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| **Start of modification** |

### 4.4.1 Attribute properties

| Attribute Name | Documentation and Allowed Values | Properties |
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| NRCellDU.administrativeState | It indicates the administrative state of the NRCellDU. It describes the permission to use or prohibition against using the cell, imposed through the OAM services.  allowedValues: LOCKED, SHUTTING DOWN, UNLOCKED.  The meaning of these values is as defined in ITU‑T Recommendation X.731 [18].  See Annex A for Relation between the "Pre-operation state of the gNB-DU Cell" and administrative state relevant in case of 2-split and 3-split deployment scenarios. | type: ENUM  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: LOCKED  isNullable: False |
| operationalState | It indicates the operational state of the NRCellDU instance. It describes whether the resource is installed and partially or fully operable (Enabled) or the resource is not installed or not operable (Disabled).  allowedValues: ENABLED, DISABLED. | type: ENUM  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| cellState | It indicates the usage state of the NRCellDU instance. It describes whether the cell is not currently in use (Idle), or currently in use but not configured to carry traffic (Inactive) or is currently in use and is configured to carry traffic (Active).  The Inactive and Active definitions are in accordance with TS 38.401 [4]:  "Inactive: the cell is known by both the gNB-DU and the gNB-CU. The cell shall not serve UEs;  Active: the cell is known by both the gNB-DU and the gNB-CU. The cell should be able to serve UEs."  allowedValues: IDLE, INACTIVE, ACTIVE. | type: ENUM  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| arfcnDL | NR Absolute Radio Frequency Channel Number (NR-ARFCN) for downlink  allowedValues:  See TS 38.104 [12] subclause 5.4.2. Note that allowed values of NR-ARFCN are specified for each band in subclause 5.4.2.3. | type: Integer  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| arfcnUL | NR Absolute Radio Frequency Channel Number (NR-ARFCN) for uplink  allowedValues:  See TS 38.104 [12] subclause 5.4.2. Note that allowed values of NR-ARFCN are specified for each band in subclause 5.4.2.3. | type: Integer  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| arfcnSUL | NR Absolute Radio Frequency Channel Number (NR-ARFCN) for supplementary uplink  allowedValues:  See TS 38.104 [12] subclause 5.4.2. Note that allowed values of NR-ARFCN are specified for each band in subclause 5.4.2.3. | type: Integer  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| beamAzimuth | The azimuth of a beam transmission, which means the horizontal beamforming pointing angle (beam peak direction) in the (Phi) φ-axis in 1/10th degree resolution. See subclauses 3.2 in TS 38.104 [12] and 7.3 in TS 38.901 [53] as well as TS 28.662 [11]. The pointing angle is the direction equal to the geometric centre of the half-power contour of the beam relative to the reference plane. Zero degree implies explicit antenna bearing (boresight). Positive angle implies clockwise from the antenna bearing.  allowedValues: [-1800 ..1800] 0.1 degree | type: Integer  multiplicity: 0..1  isOrdered: N/A  isUnique: N/A  defaultValue: Null  isNullable: False |
| beamHorizWidth | The Horizontal beamWidth of a beam transmission, which means the horizontal beamforming half-power (3dB down) beamwidth in the (Phi) φ-axis in 1/10th degree resolution. See subclauses 3.2 in TS 38.104 [12] and 7.3 in TS 38.901 [53].  allowedValues: [0..3599] 0.1 degree | type: Integer  multiplicity: 0..1  isOrdered: N/A  isUnique: N/A  defaultValue: Null  isNullable: False |
| beamIndex | Index of the beam.  For example, please see subclause 6.3.2 of TS 38.331 [54] where the ssb-Index in the rsIndexResults element of MeasResultNR is defined. | type: Integer  multiplicity: 0..1  isOrdered: N/A  isUnique: N/A  defaultValue: Null  isNullable: False |
| beamTilt | The tilt of a beam transmission, which means the vertical beamforming pointing angle (beam peak direction) in the (Theta) θ-axis in 1/10th degree resolution. See subclauses 3.2 in TS 38.104 [12] and 7.3 in TS 38.901 [53] as well as TS 28.662 [11]. The pointing angle is the direction equal to the geometric centre of the half-power contour of the beam relative to the reference plane. Positive value implies downtilt.  allowedValues: [-900..900] 0.1 degree | type: Integer  multiplicity: 0..1  isOrdered: N/A  isUnique: N/A  defaultValue: Null  isNullable: False |
| beamType | The type of the beam.  allowedValues: "SSB-BEAM" | type: ENUM  multiplicity: 0..1  isOrdered: N/A  isUnique: N/A  defaultValue: Null  isNullable: False |
| beamVertWidth | The Vertical beamWidth of a beam transmission, which means the vertical beamforming half-power (3dB down) beamwidth in the (Theta) θ-axis in 1/10th degree resolution. See subclauses 3.2 in TS 38.104 [12] and 7.3 in TS 38.901 [53].  allowedValues: [0...1800] 0.1 degree | type: Integer  multiplicity: 0..1  isOrdered: N/A  isUnique: N/A  defaultValue: Null  isNullable: False |
| bSChannelBwDL | BS Channel BW in MHz. for downlink  allowedValues:  See BS Channel BW in TS 38.104 [12], subclause 5.3.​ | type: Integer  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| bSChannelBwUL | BS Channel BW in MHz.for uplink  allowedValues:  See BS Channel BW in TS 38.104 [12], subclause 5.3.​ | type: Integer  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| bSChannelBwSUL | BS Channel BW in MHz.for supplementary uplink  allowedValues:  See BS Channel BW in TS 38.104 [12], subclause 5.3.​ | type: Integer  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| configuredMaxTxPower | This is the maximum transmission power in milliwatts (mW) at the antenna port for all downlink channels, used simultaneously in a cell, added together.  allowedValues: N/A | type: Integer  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| configuredMaxTxEIRP | This is the maximum emitted isotropic radiated power (EIRP) in dBm for all downlink channels, used simultaneously in a cell, added together [12].  allowedValues: N/A | type: Integer  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| coverageShape | Identifies the sector carrier coverage shape described by the envelope of the contained SSB beams. The coverage shape is implementation dependent.  allowedValues: 0 : 65535 | type: Integer  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| digitalTilt | Digitally-controlled tilt through beamforming. It represents the vertical pointing direction of the antenna relative to the antenna bore sight, representing the total non-mechanical vertical tilt of the selected coverageShape. Positive value gives downwards tilt and negative value gives upwards tilt.  allowedValues: [-900..900] 0.1 degree | type: Integer  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| digitalAzimuth | Digitally-controlled azimuth through beamforming. It represents the horizontal pointing direction of the antenna relative to the antenna bore sight, representing the total non-mechanical horizontal pan of the selected coverageShape. Positive value gives azimuth to the right and negative value gives an azimuth to the left.  allowedValues: [-1800 ..1800] 0.1 degree | type: Integer  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| cyclicPrefix | Cyclic prefix as defined in TS 38.211 [32], subclause 4.2.  allowedValues:  NORMAL, EXTENDED. | type: ENUM  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| localAddress | This parameter specifies the localAddress used for initialization of the underlying transport.  The AddressWithVlan <dataType> is defined in clause 4.3.64. | type: AddressWithVlan  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| AddressWithVlan.iPaddress | This parameter specifies the IP address used for initialization of the underlying transport.  IP address can be an IPv4 address (See RFC 791 [37]) or an IPv6 address (See RFC 2373 [38]). | type: String  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| AddressWithVlan. vlanId | This parameter specifies the local VLAN Id (See IEEE 802.1Q [39]) used for initialization of the underlying transport. | type: String  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| remoteAddress | Remote address including IP address used for initialization of the underlying transport.  IP address can be an IPv4 address (See RFC 791 [37]) or an IPv6 address (See RFC 2373 [38]). | type: String  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| gNBId | It identifies a gNB within a PLMN. The gNB ID is part of the NR Cell Identifier (NCI) of the gNB cells.  See "gNB Identifier (gNB ID)" of subclause 8.2 of TS 38.300 [3]. See "Global gNB ID" in subclause 9.3.1.6 of TS 38.413 [5].  allowedValues: 0..4294967295 | type: Integer  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| gNBIdLength | This indicates the number of bits for encoding the gNB ID. See "Global gNB ID" in subclause 9.3.1.6 of TS 38.413 [5].  allowedValues: 22 .. 32. | type: Integer  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| gNB­DUId | It uniquely identifies the DU at least within a gNB-CU. See 'gNB-DU ID' in subclause 9.3.1.9 of 3GPP TS 38.473 [8].  allowedValues: 0..236-1 | type: Integer  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| gNB­CUUPId | It uniquely identifies the gNB-CU-UP at least within a gNB-CU-CP. See 'gNB-CU-UP ID' in subclause 9.3.1.15 of 3GPP TS 38.463 [48].  allowedValues: 0..236-1 | type: Integer  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| gNBCUName | It identifies the Central Entity of a NR node, see subclause 9.2.1.4 of 3GPP TS 38.473 [8].  allowedValues: Not applicable | type: String  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| gNBDUName | It identifies the Distributed Entity of a NR node, see subclause 9.2.1.5 of 3GPP TS 38.473 [8].  allowedValues: Not applicable | type: String  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| cellLocalId | It identifies a NR cell of a gNB.  It, together with the gNB Identifier (using gNBId of the parent GNBCUCPFunction or GNBDUFunction or OperatorDU (for MOCN network sharing scenario) or ExternalCUCPFunction), identifies a NR cell within a PLMN. This is the NR Cell Identity (NCI). See subclause 8.2 of TS 38.300 [3].  The NCI can be constructed by encoding the gNB Identifier using gNBId (of the parent GNBCUCPFunction or GNBDUFunction or OperatorDU (for MOCN network sharing scenario) or ExternalCUCPFunction) and cellLocalId where the gNB Identifier field is of length specified by gNBIdLength (of the parent GNBCUCPFunction or GNBDUFunction or ExternalCUCPFunction). See "Global gNB ID" in subclause 9.3.1.6 of TS 38.413 [5].  The NR Cell Global identifier (NCGI) is constructed from the PLMN identity the cell belongs to and the NR Cell Identifier (NCI) of the cell.  See relation between NCI and NCGI subclause 8.2 of TS 38.300 [3].  allowedValues: Not applicable | type: Integer  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| cAGIdList | It identifies a CAG list containing up to 12 CAG-identifiers per PLMN Identity, see TS 38.331 [54].  CAG is used for the PNI-NPNs to prevent UE(s), which are not allowed to access the NPN via the associated cell(s), from automatically selecting and accessing the associated CAG cell(s).  CAG ID is used to combine with PLMN ID to identify a PNI-NPN.  allowedValues: BIT STRING (SIZE (32)). | type: String  multiplicity: 1..12  isOrdered: False  isUnique: True  defaultValue: None  isNullable: False |
| nIDList | It identifies a list of NIDs containing up to 12 NIDs per PLMN Identity, see TS 38.331 [54]. NID is used to combine with PLMN ID to identify an SNPN.  allowedValues: BIT STRING (SIZE (44)). | type: String  multiplicity: 1..12  isOrdered: False  isUnique: True  defaultValue: None  isNullable: False |
| nRPCI | This holds the Physical Cell Identity (PCI) of the NR cell.  allowedValues:  See 3GPP TS 36.211 subclause 6.11 for legal values of pci. | type: Integer  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| nRTAC | This holds the 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  [13] and Extended-TAC is defined in subclause 9.3.1.29 of 3GPP TS 38.473 [8].  d) For a 5G SA (Stand Alone), it has a non-null value. | type: String  multiplicity: 0..1  isOrdered: N/A  isUnique: N/A  defaultValue: NULL  isNullable: False |
| GNBCUCPFunction.pLMNId | It specifies the PLMN identifier to be used as part of the global RAN node identity.  allowedValues: Not applicable. | Type: PLMNId  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| GNBCUUPFunction.pLMNIdList | This is a list of PLMN identifiers. It defines from which set of PLMNs an UE must have as its serving PLMN to be allowed to use the GNB-CU-UP.  allowedValues: Not applicable. | type: PLMNId  multiplicity: 1..12  isOrdered: False  isUnique: True  defaultValue: None  isNullable: False |
| NRCellCU.pLMNInfoList | It defines which PLMNs that can be served by the NR cell, and which S-NSSAIs can be supported by the NR cell for corresponding PLMN in case of network slicing feature is supported. The pLMNId of the first entry of the list is the PLMNId used to construct the nCGI for the NR cell.  allowedValues: Not applicable. | type: PLMNInfo  multiplicity: 1..\*  isOrdered: True  isUnique: True  defaultValue: None  isNullable: False |
| NRCellDU.pLMNInfoList | It defines which PLMNs that can be served by the NR cell, and which S-NSSAs can be supported by the NR cell for corresponding PLMN in case of network slicing feature is supported. The pLMNId of the first entry of the list is the PLMNId used to construct the nCGI for the NR cell.  allowedValues: Not applicable. | type: PLMNInfo  multiplicity: 1..\*  isOrdered: True  isUnique: True  defaultValue: None  isNullable: False |
| nPNIdentityList | It defines which NPNs that can be served by the NR cell, and which CAG IDs or NIDs can be supported by the NR cell for corresponding PNI-NPN or SNPN in case of the cell is NPN-only cell.  (NPN-Identity referring to TS 38.331 [54])  allowedValues: Not applicable. | type: NpnId  multiplicity: 1..\*  isOrdered: True  isUnique: True  defaultValue: None  isNullable: False |
| ExternalNRCellCU.pLMNIdList | It defines which PLMNs that are assumed to be served by the NR Cell in another gNB-CU-CP. This list is either updated by the managed element itself (e.g. due to ANR, signalling over Xn etc) or by consumer over the standard interface.  allowedValues: Not applicable. | Type: PLMNId  multiplicity: 1..12  isOrdered: False  isUnique: True  defaultValue: None  isNullable: False |
| rRMPolicyMemberList | It represents the list of RRMPolicyMember (s) that the managed object is supporting. A RRMPolicyMember <<dataType>> include the PLMNId <<dataType>> and S-NSSAI <<dataType>>.  allowedValues: N/A | type: RRMPolicyMember  multiplicity: 1..\*  isOrdered: False  isUnique: True  defaultValue: None  isNullable: False |
| resourceType | The resource type of interest for an RRM Policy.  allowedValues:  PRB, PRB\_UL, PRB\_DL (for NRCellDU, GNBDUFunction)  RRC\_CONNECTED\_USERS (for NRCellCU, GNBCUCPFunction)  DRB (for GNBCUUPFunction)  See NOTE 2and NOTE 4 | type: ENUM  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| sNSSAIList | It represents the list of S-NSSAI the managed object is supporting. The S-NSSAI is defined in 3GPP TS 23.003 [13].  allowedValues: See 3GPP TS 23.003 [13] | type: S-NSSAI  multiplicity: \*  isOrdered: False  isUnique: True  defaultValue: None  allowedValues: N/A  isNullable: False |
| sST | This attribute specifies the Slice/Service type (SST) of the network slice.  See clause 5.15.2 of 3GPP TS 23.501 [2]. | type: Integer  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  allowedValues: N/A  isNullable: False |
| sD | This attribute specifies the Slice Differentiator (SD), which is optional information that complements the slice/service type(s) to differentiate amongst multiple Network Slices.  Pattern: '^[A-Fa-f0-9]{6}$'  See clause 5.15.2 of 3GPP TS 23.501 [2].  allowedValues: N/A | type: String  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| rRMPolicyMaxRatio | This attribute specifies the maximum percentage of radio resources that can be used by the associated rRMPolicyMemberList. The maximum percentage of radio resources include at least one of the shared resources, prioritized resources and dedicated resources.  For the same resource type, the sum of the ‘rRMPolicyMaxRatio’ values assigned to all RRMPolicyRatio(s) name-contained by same ManagedEntity can be greater than 100.  allowedValues:  0 : 100 | type: Integer  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: 100  isNullable: False |
| rRMPolicyMinRatio | This attribute specifies the minimum percentage of radio resources that can be used by the associated rRMPolicyMemberList. The minimum percentage of radio resources including at least one of prioritized resources and dedicated resources.    For the same resource type, the sum of the ‘rRMPolicyMinRatio’ values assigned to all RRMPolicyRatio(s) name-contained by same ManagedEntity shall be less than or equal to 100.  allowedValues:  0 : 100  NOTE: Void. | type: Integer  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: 0  isNullable: False |
| rRMPolicyDedicatedRatio | This attribute specifies the percentage of radio resource that dedicatedly used by the associated rRMPolicyMemberList.  For the same resource type, the sum of the ‘rRMPolicyDedicatedRatio’ values assigned to all RRMPolicyRatio(s) name-contained by same ManagedEntity shall be less than or equal to 100.  allowedValues:0 : 100 | type: Integer  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: 0  isNullable: False |
| subCarrierSpacing | Subcarrier spacing configuration for a BWP. See subclause 5 in TS 38.104 [12].  AllowedValues: [15, 30, 60, 120] depending on the frequency range FR1 or FR2. | type: Integer  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| txDirection | Indicates if the transmission direction is downlink (DL), uplink (UL) or both downlink and uplink (DL and UL).  allowedValues:  DL, UL, DL\_AND\_UL | type: ENUM  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| bwpContext | It identifies whether the object is used for downlink, uplink or supplementary uplink.  allowedValues:  DL, UL, SUL | type: ENUM  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| isInitialBwp | It identifies whether the object is used for initial or other BWP.  allowedValues:  INITIAL, OTHER | type: ENUM  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| startRB | Offset in common resource blocks to common resource block 0 for the applicable subcarrier spacing for a BWP. This corresponds to N\_BWP\_start, see subclause 4.4.5 in TS 38.211 [32].  allowedValues:  0 to N\_grid\_size – 1, where N\_grid\_size equals the number of resource blocks for the BS channel bandwidth, given the subcarrier spacing of the BWP. | type: Integer  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| numberOfRBs | Number of physical resource blocks for a BWP. This corresponds to N\_BWP\_size, see subclause 4.4.5 in TS 38.211 [32].  allowedValues:  1 to N\_grid\_size – startRB of the BWP. Se startRB for definition of N\_grid\_size. | type: Integer  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| nRTCI | This is the Target NR Cell Identifier. It consists of NR Cell Identifier (NCI) and Physical Cell Identifier of the target NR cell (nRPCI).  The NRRelation.nRTCI identifies the target cell from the perspective of the NRCell, the name-containing instance of the subject NRCellCU instance.  allowedValues: Not applicable. | type: Integer  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| adjacentNRCellRef | This attribute contains the DN of an adjacentNRCell (NRCellCU or ExternalNRCellCU)  allowedValues: Not applicable. | type: DN  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| ssbFrequency | Indicates cell defining SSB frequency domain position  Frequency of the cell defining SSB transmission. The frequency provided in this attribute identifies the position of resource element RE=#0 (subcarrier #0) of resource block RB#10 of the SS block. The frequency must be positioned on the NR global frequency raster, as defined in TS 38.101-1 [42] subclause 5.4.2. and within bSChannelBwDL.  allowedValues: 0..3279165 | type: Integer  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| nRFrequencyRef | This attribute contains the DN of the referenced NRFrequency.  allowedValues: Not applicable. | type: DN  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| nRrFreqRelationRef | This attribute contains the DN of the referenced NRFreqRelation.  allowedValues: Not applicable. | type: DN  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| nRSectorCarrierRef | This attribute contains the DN of the referenced NRSectorCarrier.  allowedValues: Not applicable. | type: DN  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| bWPRef | This attribute contains a list of referenced BWPs.  allowedValues: DN of a BWP. | type: DN  multiplicity: \*  isOrdered: False  isUnique: True  defaultValue: None  isNullable: False |
| sectorEquipmentFunctionRef | This attribute contains the DN of the referenced SectorEquipmentFunction.  allowedValues: Not applicable. | type: DN  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| offsetMO | It is a list of offset values applicable to all measured cells with reference signal(s) indicated in this *MeasObjectNR*. See offsetMO of subclause 5.5.4 of TS 38.331 [54].  allowedValues: Not applicable. | type: QOffsetRangeList  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: N/A  isNullable: False |
| cellIndividualOffset | It is a list of offset values for the neighbour cell. Used when UE is in connected mode. The unit is 1dB. It is defined for rsrpOffsetSSB, rsrqOffsetSSB, sinrOffsetSSB, rsrpOffsetCSI-RS, rsrqOffsetCSI-RS and sinrOffsetCSI-RS. See TS 38.331 [54].  allowedValues: Not applicable. | type: Integer  multiplicity: 6  isOrdered: True  isUnique: False  defaultValue: 0  isNullable: False |
| blockListEntry | It specifies a list of PCI (physical cell identity) that are exclude-listed in EUTRAN measurements as described in 3GPP TS 38.331 [54].  allowedValues: { 0…1007 } | type: Integer  multiplicity: \*  isOrdered: False  isUnique: True  defaultValue: None  isNullable: False |
| blockListEntryIdleMode | It specifies a list of PCI (physical cell identity) that are exclude-listed in SIB4 and SIB5.  allowedValues: { 0…1007 } | type: Integer  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| cellReselectionPriority | It is the absolute priority of the carrier frequency used by the cell reselection procedure. See *CellReselectionPriority* IE in TS 38.331 [54].  It corresponds to the parameter priority in 3GPP TS 38.304 [49].  Value 0 means lowest priority. The UE behaviour when no value is entered is specified in subclause 5.2.4.1 of 3GPP TS 38.304 [49].  The value must not already used by other RAT, i.e. equal priorities between RATs are not supported.  allowedValues: N/A | type: Integer  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: 0None  isNullable: False |
| cellReselectionSubPriority | It indicates a fractional value to be added to the value of cellReselectionPriority to obtain the absolute priority of the concerned carrier frequency for E-UTRA and NR. See *CellReselectionSubPriority* IE in TS 38.331 [54].  allowedValues: { 0.2, 0.4, 0.6, 0.8 }. | type: Real  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| pMax | It calculates the parameter Pcompensation (defined in 3GPP TS 38.304 [49]), at cell reselection to an Cell. Its unit is 1 dBm. It corresponds to parameter PEMAX in 3GPP TS 38.101-1 [42].  allowedValues: { -30..33 }. | type: Integer  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| qOffsetFreq | It is the frequency specific offset applied when evaluating candidates for cell reselection. See TS 38.331 [49]. Its unit is 1 dB.  allowedValues:  { -24, -22, -20, -18, -16, -14, -12, -10, -8, -6, -5, -4, -3, -2, -1, 0, 1, 2, 3, 4, 5, 6, 8, 10, 12, 14, 16, 20, 22, 24 } | type: Integer  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: 0  isNullable: False |
| qOffsetRangeList | It is used to indicate a cell, beam or measurement object specific offset to be applied when evaluating candidates for cell re-selection or when evaluating triggering conditions for measurement reporting. The value is in dB. Value dB-24 corresponds to -24 dB, dB-22 corresponds to -22 dB and so on.  This is a list of enum values representing, in sequence: rsrpOffsetSSB, rsrqOffsetSSB, sinrOffsetSSB, rsrpOffsetCSI-RS, rsrqOffsetCSI-RS, sinrOffsetCSI-RS.  See Q-OffsetRangeList in subclause of subclause 6.3.2 of TS 38.331 [54].  allowedValues:  { -24, -22, -20, -18, -16, -14, -12, -10, -8, -6, -5, -4, -3, -2, -1, 0, 1, 2, 3, 4, 5, 6, 8, 10, 12, 14, 16, 20, 22, 24 } | type: ENUM  multiplicity: 6  isOrdered: True  isUnique: False  defaultValue: 0  isNullable: False |
| qQualMin | It indicates the minimum required quality level in the cell (dB). See qQualMin in TS 38.304 [49]. Unit is 1 dB.  Value 0 means that it is not sent and UE applies in such case the (default) value of negative infinity for Qqualmin. Sent in SIB3 or SIB5.  allowedValues: { -34..-3, 0 } | type: Integer  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| qRxLevMin | It indicates the required minimum received Reference Symbol Received Power (RSRP) level in the (E-UTRA) frequency for cell reselection. It corresponds to Qrxlevmin defined in 3GPP TS 38.304 [49]. It is broadcast in SIB3 or SIB5, depending on whether the related frequency is intra- or inter-frequency. Its unit is 1 dBm and resolution is 2.  allowedValues: { -140..-44 }. | type: Integer  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| threshXHighP | This specifies the Srxlev threshold (in dB) used by the UE when reselecting towards a higher priority RAT/ frequency than the current serving frequency. Each frequency of NR and E-UTRAN might have a specific threshold. It corresponds to the ThreshX, HighPin 3GPP TS 38.304 [49]. Its unit is 1 dB and resolution is 2**.**  allowedValues: { 0..62 } | type: Integer  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| threshXHighQ | This specifies the Squal threshold (in dB) used by the UE when reselecting towards a higher priority RAT/ frequency than the current serving frequency. Each frequency of NR and E-UTRAN might have a specific threshold. It corresponds to the ThreshX, HighQ in TS 38.304 [49]. Its unit is 1 dB.  allowedValues: { 0..31 } | type: Integer  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| threshXLowP | This specifies the Srxlev threshold (in dB) used by the UE when reselecting towards a lower priority RAT/ frequency than the current serving frequency. Each frequency of NR might have a specific threshold. It corresponds to ThreshX, LowP in TS 38.304 [49]. Its unit is 1 dB. Its resolution is 2.  allowedValues: { 0..62 } | type: Integer  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| threshXLowQ | This specifies the Squal threshold (in dB) used by the UE when reselecting towards a lower priority RAT/ frequency than the current serving frequency. Each frequency of NR might have a specific threshold. It corresponds to ThreshX, LowQ in TS 38.304 [49]. Its unit is 1 dB.  allowedValues: {0..31}. | type: Integer  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| tReselectionNr | It is the cell reselection timer and corresponds to parameter TreselectionRAT for NR defined in 38.331 [54]. Its unit is in seconds.   allowedValues: {0..7}. | type: Integer  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| tReselectionNRSfHigh | The attribute t-ReselectionNr (a parameter TreselectionNR in TS 38.304 [49]) is multiplied with this factor if the UE is in high mobility state. It corresponds to the parameter Speed dependent ScalingFactor for TreselectionNr for medium high state in 3GPP TS 38.304 [49]. The unit is one %.  Value mapping: 25 = 0.25 50 = 0.5 75 = 0.75 100 = 1.0  allowedValues: {25, 50, 75, 100}. | type: Integer  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| tReselectionNRSfMedium | The attribute t-ReselectionNR (a parameter "TreselectionNR in TS 38.304 [49]”) is multiplied with this factor if the UE is in medium mobility state. It corresponds to the parameter Speed dependent ScalingFactor for TreselectionNr for medium mobility state in 3GPP TS 38.304 [49]. Its unit is one %.  Value mapping: 25 = 0.25 50 = 0.5 75 = 0.75 100 = 1.0   allowedValues: {25, 50, 75, 100}. | type: Integer  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| absoluteFrequencySSB | The absolute frequency applicable for a downlink NR carrier frequency associated with the SSB.  allowedValues: {0.. 3279165}. | type: Integer  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| sSBSubCarrierSpacing | This SSB is used for for synchronization. See subclause 5 in TS 38.104 [12]. Its units are in kHz.  allowedValues: {15, 30, 120, 240}.  Note that the allowed values of SSB used for representing data, by e.g. a BWP, are: 15, 30, 60 and 120 in units of kHz. | type: Integer  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| multiFrequencyBandListNR | It is a list of additional frequency bands the frequency belongs to. The list is automatically set by the gNB.  allowedValues: {1..256 } | type: Integer  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| ssbPeriodicity | Indicates cell defined SSB periodicity in number of subframes (ms).  The SSB periodicity in msec is used for the rate matching purpose.  allowedValues: 5, 10, 20, 40, 80, 160. | type: Integer  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| ssbOffset   |  | | --- | |  | | Indicates cell defining SSB time domain position. Defined as the offset of the measurement window, in number of subframes (ms), in which to receive SS/PBCH blocks, where allowed values depend on the ssbPeriodicity.  allowedValues:  ssbPeriodicity5 ms 0..4,  ssbPeriodicity10 ms 0..9,  ssbPeriodicity20 ms 0..19,  ssbPeriodicity40 ms 0..39,  ssbPeriodicity80 ms 0..79,  ssbPeriodicity160 ms 0..159. | type: Integer  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| ssbDuration   |  | | --- | |  | | Duration of the measurement window in which to receive SS/PBCH blocks. It is given in number of subframes (ms) (see 38.213 [41], subclause 4.1.  allowedValues: 1, 2, 3, 4, 5. | type: Integer  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| rimRSMonitoringStartTime | This field configures the UTC time when the gNB attempts to start RIM-RS monitoring.  allowedValues: containing the information same with xsd: dateTime. | type: String  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| rimRSMonitoringStopTime | This field configures the UTC time when the gNB stops RIM-RS monitoring.  allowedValues: containing the information same with xsd: dateTime. | type: String  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| mappingSetIDBackhaulAddressList | The attribute specifies a list of mappingSetIDBackhaulAddress which is defined as a datatype (see clause 4.3.47). Which is used to retrieve the backhaul address of the victim set.  allowedValues: Not applicable | type: MappingSetIDBackhaulAddress  multiplicity: 1..\*  isOrdered: False  isUnique: True  defaultValue: None  isNullable: False |
| backhaulAddress | The attribute specifies backhaulAddress which is defined as a datatype (see clause 4.3.48).  allowedValues: Not applicable | type: BackhaulAddress  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| setID | This specifies the set ID of a victim Set (RIM-RS1 Set) or aggressor Set (RIM-RS2 set). (See subclause 7.4.1.6 in TS 38.211 [32]).  allowedValues:  The bit length of the set ID is maximum 22bit.  See NOTE 10. | type: Integer  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| tAI | Indicates the TAI (see subclause 9.3.3.11 in TS 38.413[5]), including pLMNId ID and nRTAC. allowedValues: Not applicable | type: TAI  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| isRemoveAllowed | This indicates if the subject NRCellRelation can be removed (deleted) or not.  If TRUE, the subject NRCellRelation instance can be removed (deleted).  If FALSE, the subject NRCellRelation instance shall not be removed (deleted) by any entity but an MnS consumer.  allowedValues: TRUE,FALSE | type: Boolean  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| isHOAllowed | This indicates if HO is allowed or prohibited.  If TRUE, handover is allowed from source cell to target cell. The source cell is identified by the name-containing NRCellCU of the NRCellRelation that contains the isHOAllowed. The target cell is referenced by the NRCellRelation that contains this isHOAllowed.  If FALSE, handover shall not be allowed.  allowedValues: TRUE,FALSE | type: Boolean  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| intrasystemANRManagementSwitch | This attribute determines whether the intra-system ANR function is activated or deactivated.  If “TRUE”, the intra-system ANR function may add or remove intra NG-RAN Neighbour Relations, i.e. add or remove NRCellRelation instances from NRCellCU of this GNBCUCPFunction. If “FALSE”, the intra-system ANR Function must not add or remove Neighbour Relations, i.e. add or remove NRCellRelation instances from NRCellCU of this GNBCUCPFunction.  allowedValues: TRUE,FALSE | type: Boolean  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| intersystemANRManagementSwitch | This attribute determines whether the inter-system ANR function is activated or deactivated.  If “TRUE”, the inter-system ANR function may add or remove inter-system Neighbour Relations, i.e. add or remove EUtranRelation instances from NRCellCU of this GNBCUCPFunction. If “FALSE”, the inter-system ANR Function must not add or remove inter-system Neighbour Relations, i.e. add or remove EUtranRelation instances from NRCellCU of this GNBCUCPFunction.  allowedValues: TRUE,FALSE | type: Boolean  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| desSwitch | This attribute determines whether the Distributed SON energy saving function is enabled or disabled.  allowedValues: TRUE,FALSE | type: Boolean  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| cesSwitch | This attribute determines whether the Centralized SON energy saving function is enabled or disabled.  allowedValues: TRUE,FALSE | type: Boolean  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| energySavingControl | This attribute allows the Centralized SON energy saving function to initiate energy saving activation or deactivation.  allowedValues: TO\_BE\_ENERGY\_SAVING, TO\_BE\_NOT\_ENERGY\_SAVING | type: ENUM  multiplicity: 0..1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| energySavingState | Specifies the status regarding the energy saving in the cell.  If the value of energySavingControl is toBeEnergySaving, then it shall be tried to achieve the value isEnergySaving for the energySavingState.  If the value of energySavingControl is toBeNotEnergySaving, then it shall be tried to achieve the value isNotEnergySaving for the energySavingState.  allowedValues: IS\_NOT\_ENERGY\_SAVING, IS\_ENERGY\_SAVING. | type: ENUM  multiplicity: 0..1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| intraRatEsActivationOriginalCellLoadParameters | This attribute is relevant, if the cell acts as an original cell.  This attribute indicates the traffic load threshold and the time duration, which are used by distributed ES algorithms to allow a cell to enter the energySaving state. The time duration indicates how long the load needs to have been below the threshold.  allowedValues:  loadThreshold: Integer 0..100 (Percentage of PRB usage, see 3GPP TS 36.314 [13])  timeDuration: Integer (in unit of seconds) | type: LoadTimeThreshold  multiplicity: 0..1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| intraRatEsActivationCandidateCellsLoadParameters | This attribute is relevant, if the cell acts as a candidate cell.  This attribute indicates the traffic load threshold and the time duration, which are used by distributed ES algorithms level to allow a n ‘original’ cell to enter the energySaving state. Threshold and duration are applied to the candidate cell(s) which will provides coverage backup of an original cell when it is in the energySaving state. The threshold applies in the same way for a candidate cell, no matter for which original cell it will provide backup coverage.  The time duration indicates how long the traffic in the candidate cell needs to have been below the threshold before any original cells which will be provided backup coverage by the candidate cell enters energy saving state.  allowedValues: loadThreshold: Integer 0..100 (Percentage of PRB usage (see 3GPP TS 36.314 [13]) )  timeDuration: Integer (in unit of seconds) | type: LoadTimeThreshold  multiplicity: 0..1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| intraRatEsDeactivationCandidateCellsLoadParameters | This attribute is relevant, if the cell acts as a candidate cell.  This attribute indicates the traffic load threshold and the time duration which is used by distributed ES algorithms to allow a cell to leave the energySaving state. Threshold and time duration are applied to the candidate cell when it which provides coverage backup for the cell in energySaving state. The threshold applies in the same way for a candidate cell, no matter for which original cell it provides backup coverage.  The time duration indicates how long the traffic in the candidate cell needs to have been above the threshold to wake up one or more original cells which have been provided backup coverage by the candidate cell.  allowedValues: loadThreshold: Integer 0..100 (Percentage of PRB usage (see 3GPP TS 36.314 [13]) )  timeDuration: Integer (in unit of seconds) | type: LoadTimeThreshold  multiplicity: 0..1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| LoadTimeThreshold.threshold | This attribute indicates a traffic load threshold.  allowedValues: Integer | type: Integer  multiplicity: 0..1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| LoadTimeThreshold.timeDuration | This attribute indicates a duration in unit of seconds.  allowedValues: Integer | type: Integer  multiplicity: 0..1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| esNotAllowedTimePeriod | This attribute can be used to prevent a cell entering energySaving state.  This attribute indicates a list of time periods during which inter-RAT energy saving is not allowed.  Time period is valid on the specified day and time of every week.  allowedValues: N/A | type: EsNotAllowedTimePeriod  multiplicity: 0..\*  isOrdered: False  isUnique: True  defaultValue: None  isNullable: False |
| EsNotAllowedTimePeriod.startTime | This attribute indicates a time of day as a start time for a period.  Time of day is in HH:MM or H:MM 24-hour format per UTC time zone.  Examples, 20:15:00, 20:15:00-08:00 (for 8 hours behind UTC).  allowedValues: N/A | type: String  multiplicity: 0..1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| EsNotAllowedTimePeriod.endTime | This attribute indicates a valid time of day as an end time for a period. The endTime should be later than startTime.  Time of day is in HH:MM or H:MM 24-hour format per UTC time zone.  Examples, 20:15:00, 20:15:00-08:00 (for 8 hours behind UTC).  allowedValues: N/A | type: String  multiplicity: 0..1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| EsNotAllowedTimePeriod.daysOfWeek | This attribute indicates a day in a week.  allowedValues: MONDAY, TUESDAY, WEDNESDAY, THURSDAY, FRIDAY, SATURDAY, SUNDAY | type: <<enumeration>>  multiplicity: 0..1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| interRatEsActivationOriginalCellParameters | This attribute is relevant, if the cell acts as an original cell.  This attribute indicates the traffic load threshold and the time duration, which are used by distributed inter-RAT ES algorithms to allow an original cell to enter the energySaving state. The time duration indicates how long the traffic load (both for UL and DL) needs to have been below the threshold.  In case the original cell is an EUTRAN cell, the load information refers to Composite Available Capacity Group IE (see 3GPP TS 36.413 [12] Annex B.1.5) and the following applies:  Load = (100 - ‘Capacity Value’ ) \* ‘Cell Capacity Class Value’, where ‘Capacity Value’ and ‘Cell Capacity Class Value’ are defined in 3GPP TS 36.423 [7].  In case the original cell is a UTRAN cell, the load information refers to Cell Load Information Group IE (see 3GPP TS 36.413 [12] Annex B.1.5) and the following applies:  Load= ‘Load Value’ \* ‘Cell Capacity Class Value’, where ‘Load Value’ and ‘Cell Capacity Class Value’ are defined in 3GPP TS 25.413 [19].  If the ‘Cell Capacity Class Value’ is not known, then ‘Cell Capacity Class Value’ should be set to 1 when calculating the load, and the load threshold should be set in range of 0..100.  allowedValues:  loadThreshold: Integer 0..10000  timeDuration: Integer 0..900 (in unit of seconds) | type: LoadTimeThreshold  multiplicity: 0..1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| interRatEsActivationCandidateCellParameters | This attribute is relevant, if the cell acts as a candidate cell.  This attribute indicates the traffic load threshold and the time duration, which are used by distributed inter-RAT ES algorithms to allow an original cell to enter the energySaving state. Threshold and time duration are applied to the candidate cell(s) which will provides coverage backup of an original cell when it is in the energySaving state.  The time duration indicates how long the traffic load (both for UL and DL) in the candidate cell needs to have been below the threshold before any original cells which will be provided backup coverage by the candidate cell enters energySaving state.  In case the candidate cell is a UTRAN or GERAN cell, the load information refers to Cell Load Information Group IE(see 3GPP TS 36.413 [12] Annex B.1.5) and the following applies:  Load= ‘Load Value’ \* ‘Cell Capacity Class Value’, where ‘Load Value’ and ‘Cell Capacity Class Value’ are defined in 3GPP TS 25.413 [19] (for UTRAN) / TS 48.008 [20] (for GERAN).  If the ‘Cell Capacity Class Value’ is not known, then ‘Cell Capacity Class Value’ should be set to 1 when calculating the load, and the load threshold should be set in range of 0..100.  allowedValues:  loadThreshold: Integer 0..10000  timeDuration: Integer 0..900 (in unit of seconds) | type: LoadTimeThreshold  multiplicity: 0..1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| interRatEsDeactivationCandidateCellParameters | This attribute is relevant, if the cell acts as a candidate cell.  This attribute indicates the traffic load threshold and the time duration which is used by distributed inter-RAT ES algorithms to allow an original cell to leave the energySaving state. Threshold and time duration are applied to the candidate cell which provides coverage backup for the cell in energySaving state.  The time duration indicates how long the traffic load (either for UL or DL) in the candidate cell needs to have been above the threshold to wake up one or more original cells which have been provided backup coverage by the candidate cell.  For the load see the definition of interRatEsActivationCandidateCellParameters.  allowedValues:  loadThreshold: Integer 0..10000  timeDuration: Integer 0..900 (in unit of seconds) | type: LoadTimeThreshold  multiplicity: 0..1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| isProbingCapable | This attribute indicates whether this cell is capable of performing the ES probing procedure. During this procedure the eNB owning the cell indicates its presence to UEs for measurement purposes, but prevents idle mode UEs from camping on the cell and prevents incoming handovers to the same cell.  If this parameter is absent, then probing is not done.  allowedValues: YES, NO | type: ENUM  multiplicity: 0..1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| dmroControl | This attribute determines whether the MRO function is enabled or disabled.  allowedValues: TRUE,FALSE | type: Boolean  multiplicity: 0..1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| dDAPSHOControl | This attribute determines whether the DAPS handover function is enabled or disabled.  allowedValues: TRUE, FALSE | type: Boolean  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| dCHOControl | This attribute determines whether the CHO handover function is enabled or disabled.  allowedValues: TRUE, FALSE | type: Boolean  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| dlboControl | This attribute determines whether the D-LBO function is enabled or disabled.  allowedValues: TRUE,FALSE | type: Boolean  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| cSonPciList | This holds a list of physical cell identities that can be assigned to the pci attribute by gNB. The assignment algorithm is not specified.  This attribute shall be supported if and only if the C-SON PCI configuration is supported. See TS 28.313, ref [57] subclause 7.1.3.  allowedValues: See TS 38.211 [32] subclause 7.4.2.1 for legal values of pci. The number of pci in the list is 0 to 1007. | type: Integer  multiplicity: 1..\*  isOrdered: False  isUnique: True  defaultValue: None  isNullable: False |
| ueAccProbabilityDist | This is a list of target Access Probability (*APn*) for the RACH optimization function.  Each instance *APn* of the list is the probability that the UE gets access on the RACH channel per cell within *n* number of preambles sent over an unspecified sampling period.  This target is suitable for RACH optimization.  allowedValues: Each element of the list, ***APn,*** is a pair (*a*, *n*) where *a* is the targetProbability (in %) and *n* is the number of preambles sent.  The legal values for *a* are 25, 50, 75, 90.  The legal values for *n* are 1 to 200.  The number of elements specified is 4. The number of elements supported is vendor specific. The choice of supported values for *a* and *n* is vendor-specific. | type: UeAccProbability  multiplicity: 0..\*  isOrdered: False  isUnique: True  defaultValue: None  isNullable: False |
| ueAccDelayProbabilityDist | This is a list of target Access Delay probability (*ADP*) for the RACH optimization function.  Each instance *ADP* of the list is the target time before the UE gets access on the RACH channel per cell, for the *P* percent of the successful RACH Access attempts with lowest accessDelay, over an unspecified sampling period.  This target is suitable for RACH optimization.  allowedValues: Each element of the list, ***ADp,*** is a pair (*p, d*) where *p* is the targetProbability (in %) and *d* is the access delay (in milliseconds).  The legal values for *p* are 25, 50, 75, 90.  The legal values for *d* are 10 to 560.  The number of elements specified is 4. The number of elements supported is vendor specific. The choice of supported values for *p* and *d* is vendor-specific. | type: UeAccDelayProbability  multiplicity: 0..\*  isOrdered: False  isUnique: True  defaultValue: None  isNullable: False |
| targetProbability | This attribute indicates a probability (in %).  allowedValues: 0..100 | type: Integer  multiplicity:0..1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| numberOfPreamblesSent | This attribute indicates the number of preambles sent.  allowedValues: 1..200 | type: Integer  multiplicity: 0..1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| accessDelay | This attribute indicates the access delay in unit of milliseconds.  allowedValues: 10..560 | type: Integer  multiplicity: 0..1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| drachOptimizationControl | This attribute determines whether the RACH Optimization function is enabled or disabled.  allowedValues: TRUE,FALSE | type: Boolean  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| nRPciList | This holds a list of physical cell identities that can be assigned to the NR cells.  This attribute shall be supported if D-SON PCI configuration function is supported. See subclause 8.2.3, 8.3.1 in TS 28.313 [57].  allowedValues: See TS 38.211 [32] subclause 7.4.2 for legal values of pci. The number of pci in the list is 0 to 1007. | type: Integer  multiplicity: 0..1007  isOrdered: False  isUnique: True  defaultValue: None  isNullable: False |
| dPciConfigurationControl | This attribute determines whether the Distributed SON PCI configuration Function is enabled or disabled.  allowedValues: TRUE,FALSE | type: Boolean  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| cPciConfigurationControl | This attribute determines whether the Centralized SON PCI configuration function is enabled or disabled.  allowedValues: TRUE,FALSE | type: Boolean  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| maximumDeviationHoTriggerLow | This parameter defines the maximum allowed lower deviation of the Handover Trigger, from the default point of operation (see clause 15.5.2.5 in TS 38.300 [3] and clause 9.2.2.61 in TS 38.423 [58].)  allowedValues: -20..20  Unit: 0.5 dB | type: Integer  multiplicity: 0..1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| maximumDeviationHoTriggerHigh | This parameter defines the maximum allowed upper deviation of the Handover Trigger, from the default point of operation (see clause 15.5.2.5 in TS 38.300 [3]. and clause 9.2.2.61 in TS 38.423 [58].)  allowedValues: -20..20  Unit: 0.5 dB | type: Integer  multiplicity: 0..1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| minimumTimeBetweenHoTriggerChange | This parameter defines the minimum allowed time interval between two Handover Trigger change performed by MRO. This is used to control the stability and convergence of the algorithm (see clause 15.5.2.5 in TS 38.300 [3]).  allowedValues: 0..604800  Unit: Seconds | type: Integer  multiplicity: 0..1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| tstoreUEcntxt | The timer used for detection of too early HO, too late HO and HO to wrong cell. Corresponds to Tstore\_UE\_cntxt timer described in clause 15.5.2.5 in TS 38.300 [3].  This attribute is used for Mobility Robustness Optimization.  allowedValues: 0..1023  Unit: 100 milliseconds | type: Integer  multiplicity: 0..1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| configurable5QISetRef | This is the DN of Configurable5QISet.  The detailed definition for Configurable5QISet see clause 5.3.75.  allowedValues: DN of the Configurable5QISet MOI. | type: DN  multiplicity: 0..1  isOrdered: False  isUnique: True  defaultValue: None  isNullable: False |
| dynamic5QISetRef | This is the DN of Dynamic5QISet.  The detailed definition for Dynamic5QISet see clause 5.3.94.  allowedValues: DN of the Dynamic5QISet MOI. | type: DN  multiplicity: 0..1  isOrdered: False  isUnique: True  defaultValue: None  isNullable: False |
| frequencyDomainPara | This attribute defines configuration parameters of frequency domain resource to support RIM RS.  allowedValues: Not applicable. | type: FrequencyDomainPara  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| sequenceDomainPara | This attribute defines configuration parameters of sequence domain resource to support RIM RS.  allowedValues: Not applicable. | type: SequenceDomainPara  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| timeDomainPara | This attribute defines configuration parameters of time domain resource to support RIM RS.  allowedValues: Not applicable. | type: TimeDomainPara  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| rimRSSubcarrierSpacing | It is the subcarrier spacing configuration () for the RIM-RS. Subcarrier spacing (see 38.211 [32], subclause 5.3.3).  allowedValues: 0, 1 | type: Integer  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| rIMRSBandwidth | It is the bandwidth of the RIM-RS in resource blocks (see 38.211 [32], subclause 5.3.3).  For carrier bandwidth larger than 20MHz, this attributer should be  96 if subcarrier spacing is15kHz;  48 or 96 if subcarrier spacing is 30kHz;  For carrier bandwidth smaller than or equal to 20MHz, this attribute should be  Minimum of {96 , bandwidth of downlink carrier in number of PRBs} if subcarrier spacing is15kHz;  Minimum of {48, bandwidth of downlink carrier in number of PRBs } if subcarrier spacing is 30kHz;  allowedValues: 1,2..96 | type: Integer  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| nrofGlobalRIMRSFrequencyCandidates | It is the number of candidate frequency resources in the whole network () (see 38.211 [32], subclause 7.4.1.6).  allowedValues: 1,2,4 | type: Integer  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| rimRSCommonCarrierReferencePoint | This attribute is used to configure the common reference point for RIM RS. Where represents the frequency-location of point A expressed as in ARFCN. See 3GPP TS 38.211 [32] subclause 4.4.4.2  allowedValues: 0..3279165 | type: Integer  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| rimRSStartingFrequencyOffsetIdList | It is a list of configured frequency offsets in units of resource blocks, where each element is the frequency offset relative to a configured reference point for RIM-RS. The size of the list is nrofGlobalRIMRSFrequencyCandidates and the resulting frequency resource blocks of RIM-RS corresponding to different configured frequency offset have no overlapping bandwidth. (see 38.211 [32], subclause 7.4.1.6).  .  allowedValues: 0..maxNrofPhysicalResourceBlocks-1 where maxNrofPhysicalResourceBlocks = 550 | type: Integer  multiplicity: 1, 2, 4  isOrdered: False  isUnique: True  defaultValue: None  isNullable: False |
| nrofRIMRSSequenceCandidatesofRS1 | It is the number of candidate sequences assigned for RIM RS-1 () (see 38.211 [32], subclause 7.4.1.6). It should be even when enableEnoughNotEnoughIndication for RS-1 is ON  allowedValues: 1,2..8  see NOTE 10 | type: Integer  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| rimRSScrambleIdListofRS1 | It is a list of configured scrambling identities for RIM RS-1 (see 38.211 [32], subclause 7.4.1.6). The size of the list is nrofRIMRSSequenceCandidatesofRS1.  allowedValues: 0..2^10-1 | type: Integer  multiplicity: 1, 2..8  isOrdered: False  isUnique: True  defaultValue: None  isNullable: False |
| nrofRIMRSSequenceCandidatesofRS2 | It is the number of candidate sequences assigned for RIM RS-2 () (see 38.211 [32], subclause 7.4.1.6).  allowedValues: 1,2..8  See NOTE 10. | type: Integer  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| rimRSScrambleIdListofRS2 | It is a list of configured scrambling identities for RIM RS-2 (see 38.211 [32], subclause 7.4.1.6).. The size of the list is nrofRIMRSSequenceCandidatesofRS2.  allowedValues: 0..2^10-1 | type: Integer  multiplicity: 1, 2..8  isOrdered: False  isUnique: True  defaultValue: None  isNullable: False |
| enableEnoughNotEnoughIndication | It is indication of whether “Enough” / “Not enough” indication functionality is enabled for RIM RS-1 (see 38.211 [32], subclause 7.4.1.6).  If the indication is "enable",  the first half of nrofRIMRSSequenceCandidatesofRS1 sequences indicates "Not enough mitigation", and the second half indicates "Enough mitigation", where,  "Enough mitigation" indicates that IoT going back to certain level at victim side and/or no further interference mitigation actions are needed at aggressor side  "Not enough mitigation" indicates that IoT exceeding certain level at victim side and/or further interference mitigation actions are needed at aggressor side  enableEnoughNotEnoughIndication is equivalent to EnoughIndication (see 38.211 [32], subclause 7.4.1.6)  allowedValues: "ENABLE", "DISABLE"  see NOTE 8 | type: ENUM  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: DISABLE  isNullable: False |
| rIMRSScrambleTimerMultiplier | It is parameter multiplier factor for initialization seed of the pseudo-random sequence (see 38.211 [32], subclause 7.4.1.6.2).  allowedValues: 0,1,….2^31-1 | type: Integer  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| rIMRSScrambleTimerOffset | It is parameter offset for initialization seed of the pseudo-random sequence (see 38.211 [32], subclause 7.4.1.6.2).  allowedValues: 0,1,….2^31-1 | type: Integer  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| dlULSwitchingPeriod1 | This attribute is used to configure the first uplink-downlink switching period (P1) for RIM RS transmission in the network, where one RIM RS is configured in one uplink-downlink switching period. (see 38.211 [32], subclause 7.4.1.6).  When only one TDD-UL-DL-Pattern is configured, only dl-UL-SwitchingPeriod1 is configured, where P1 equals to the transmission periodicity of the TDD-UL-DL-Pattern.  When two concatenated TDD-UL-DL-Patterns are configured, and RIM-RS resources is configured only in one of the TDD patterns, only dl-UL-SwitchingPeriod1 is configured, where P1 equals to the addition of the concatenated transmission periodicity of the two TDD-UL-DL-Patterns.  When two concatenated TDD-UL-DL-Patterns are configured, and RIM-RS resources are configured in both TDD patterns, both dl-UL-SwitchingPeriod1 and dl-UL-SwitchingPeriod2 are configured, where P1 equals to the transmission periodicity of the first TDD-UL-DL-Pattern.  P1 is equivalent to (see 38.211 [32], subclause 7.4.1.6).  See NOTE 6  allowedValues:  MS0P5, MS0P625, MS1, MS1P25, MS2, MS2P5, MS4, MS5, MS10, MS20, if a single uplink-downlink period is configured for RIM-RS purposes;  MS0P5, MS0P625, MS1, MS1P25, MS2, MS2P5, MS3, MS4, MS5, MS10, MS20, if two uplink-downlink periods are configured for RIM-RS purposes.  see NOTE 9 | type: ENUM  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| symbolOffsetOfReferencePoint1 | This attribute is used to configure the reference point in the first uplink-downlink switching period, which is the symbols offset of the reference point after the starting boundary of the first uplink-downlink switching period. It’s Configured together with dl-UL-SwitchingPeriod1 (see 38.211 [32], subclause 7.4.1.6).  When only one TDD-UL-DL-Pattern is configured, the reference point configured for the first uplink-downlink switching period is the DL transmission boundary of the TDD-UL-DL-Pattern.  When two concatenated TDD-UL-DL-Patterns are configured, and RIM-RS resources is configured only in one of the TDD patterns, the reference point configured for the first uplink-downlink switching period is the DL transmission boundary of the TDD-UL-DL-Pattern where the RIM-RS resource is configured.  When two concatenated TDD-UL-DL-Patterns are configured, and RIM-RS resources are configured in both TDD patterns, the reference points configured for first uplink-downlink switching period is the DL transmission boundary of the first TDD-UL-DL-Pattern.  allowedValues: 2, 3..20\*2\*maxNrofSymbols-1, where maxNrofSymbols=14 | type: Integer  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| dlULSwitchingPeriod2 | This attribute is used to configure the second uplink-downlink switching period (P2) for RIM RS transmission in the network, where one RIM RS is configured in one uplink-downlink switching period (see 38.211 [32], subclause 7.4.1.6).  When two concatenated TDD-UL-DL-Patterns are configured, and RIM-RS resources are configured in both TDD patterns, both dl-UL-SwitchingPeriod1 and dl-UL-SwitchingPeriod2 are configured, where P2 equals to the transmission periodicity of the second TDD-UL-DL-Pattern, and where (P1 + P2) divides 20 ms.  allowedValues: MS0P5, MS0P625, MS1, MS1P25, MS2, MS2P5, MS3, MS4, MS5, MS10    P2 is equivalent to (see 38.211 [32], subclause 7.4.1.6)  See NOTE 9 | type: ENUM  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| symbolOffsetOfReferencePoint2 | This attribute is used to configure the reference point in the second uplink-downlink switching period, which is the symbol offset of the reference point after starting boundary of the second uplink-downlink switching period. Configured together with dl-UL-SwitchingPeriod2 (see 38.211 [32], subclause 7.4.1.6).  When two concatenated TDD-UL-DL-Patterns are configured, and RIM-RS resources are configured in both TDD patterns, the reference points configured for second uplink-downlink switching period is the DL transmission boundary of the second TDD-UL-DL-Pattern.  allowedValues: 2, 3..20\*2\*maxNrofSymbols-1, where maxNrofSymbols=14 | type: Integer  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| totalnrofSetIdofRS1 | It is the total number of set IDs for RIM RS-1 () (see 38.211 [32], subclause 7.4.1.6).  allowedValues: 0,1...2^22-1 | type: Integer  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| totalnrofSetIdofRS2 | It is the total number of set IDs for RIM RS-2 () (see 38.211 [32], subclause 7.4.1.6).  allowedValues: 0,1...2^22 | type: Integer  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| nrofConsecutiveRIMRS1 | It is the number of consecutive uplink-downlink switching periods for RS-1 (R1) for repetition/near-far indication:. (see 38.211 [32], subclause 7.4.1.6).  allowedValues: 1,2,4,8  see NOTE 7 | type: Integer  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| nrofConsecutiveRIMRS2 | It is the number of consecutive uplink-downlink switching periods for RS-2 (R2) for repetition/near-far indication. (see 38.211 [32], subclause 7.4.1.6).  allowedValues: 1,2,4,8  see NOTE 7 | type: Integer  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| consecutiveRIMRS1List | It is used to configure the OFDM symbol position(s) of RIM RS-1 within the uplink-downlink switching period. It is a list of symbol offset of RIM RS-1 () before the reference point. The size of the list is nrofConsecutiveRIMRS1 (see 38.211 [32], subclause 7.4.1.6).  The resulting RIM RS-1 symbols and its reference point shall belong to the same 10ms frame.  .  allowedValues: 2,3..20\*2\*maxNrofSymbols-1, where maxNrofSymbols=14 | type: Integer  multiplicity: \*  isOrdered: False  isUnique: True  defaultValue: None  isNullable: False |
| consecutiveRIMRS2List | It is used to configure the OFDM symbol position(s) of RIM RS-2 within the uplink-downlink switching period. It is a list of symbol offset of RIM RS-2 () before the reference point. The size of the list is nrofConsecutiveRIMRS2 (see 38.211 [32], subclause 7.4.1.6).  The resulting RIM RS-2 symbols and its reference point shall belong to the same 10ms frame.  .  allowedValues: 2,3..20\*2\*maxNrofSymbols-1, where maxNrofSymbols=14 | type: Integer  multiplicity: \*  isOrdered: False  isUnique: True  defaultValue: None  isNullable: False |
| enablenearfarIndicationRS1 | It is indication of whether near-far functionality is enabled for RIM RS1.  If the indication is “enable”,  the first half of nrofConsecutiveRIMRS1 (R1) consecutive uplink-downlink switching period is for "Near" indication with R1/2 repetitions,  the second half of R1 consecutive uplink-downlink switching period is for "Far" indication with R1/2 repetitions.  allowedValues: "ENABLE", "DISABLE"  see NOTE 10. | type: ENUM  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: DISABLE  isNullable: False |
| enablenearfarIndicationRS2 | It is indication of whether near-far functionality is enabled for RIM RS2.  If the indication is “enable”,  the first half of nrofConsecutiveRIMRS2 (R2) consecutive uplink-downlink switching period is for "Near" indication with R2/2 repetitions,  the second half of R2 consecutive uplink-downlink switching period is for "Far" indication with R2/2 repetitions.  allowedValues: "ENABLE", "DISABLE"  see NOTE 10. | type: ENUM  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: DISABLE  isNullable: False |
| rimRSReportConf | It is used to configure gNBs to report the all necessary information derived from the detected RIM-RS to OAM.  allowedValues: Not applicable | type: RimRSReportConf  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: N/A  isNullable: False |
| reportIndicator | It is used to enable or disable the RS report on a gNB.  If the indication is “enable”, the gNB starts to periodically report necessary information derived from the detected RIM-RS to OAM.  If the indication is “disable”, the gNB stops reporting.  allowedValues: ENABLE, DISABLE | type: ENUM  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: DISABLE  isNullable: False |
| reportInterval | It is used to define reporting interval of a gNB in ms.  allowedValues: Not applicable | type: Integer  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| nrofRIMRSReportInfo | It is used to define the maximum number of RIMRSReportInfo in a single report.  allowedValues: Not applicable | type: Integer  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| maxPropagationDelay | It is used to define the maximum reported OFDM symbol number for the propagation delay of the detected RIM-RS in each RIMRSReportInfo.  allowedValues: 0, 1..20\*2\*maxNrofSymbols-1, where maxNrofSymbols=14. | type: Integer  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| rimRSReportInfoList | It represents a list (the length of the list is nrofRIMRSReportInfo) of necessary information derived from the detected RIM-RS.  allowedValues:  Not applicable | type: RimRSReportInfo  multiplicity: \*  isOrdered: False  isUnique: True  defaultValue: N/A  isNullable: False |
| detectedSetID | This attribute indicates the Set ID of the detected RIM-RS.  allowedValues: 0,1...max{totalnrofSetIdofRS1, totalnrofSetIdofRS2}. | type: Integer  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| propagationDelay | This attribute indicates the propagation delay of the detected RIM-RS, in number of OFDM symbol.  allowedValues: 0, 1.. maxPropagationDelay. | type: Integer  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| functionalityOfRIMRS | This attribute indicates the functionality of the detected RIM-RS.  If the indication of enableEnoughNotEnoughIndication is “enable”, valid values are {RS2, RS1\_FOR\_ENOUGH\_MITIGATION, RS1\_FOR\_NOT\_ENOUGH\_MITIGATION};  If the indication of enableEnoughNotEnoughIndication is “disable”, valid values are {RS1, RS2}.  RS1\_FOR\_ENOUGH\_MITIGATION means RIM-RS type 1 is used to indicate 'enough mitigation' functionality.  RS1\_FOR\_NOT\_ENOUGH\_MITIGATION means RIM-RS type 1 is used to indicate 'Not enough mitigation' functionality.  allowedValues: RS1, RS2, RS1\_FOR\_ENOUGH\_MITIGATION, RS1\_FOR\_NOT\_ENOUGH\_MITIGATION | type: ENUM  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| rimRSMonitoringWindowDuration | This attribute configures a duration of the monitoring window in which gNB monitors the RIM-RS, in unit of , where is the RIM-RS transmission periodicity in units of uplink-downlink switching period (see 38.211 [32], subclause 7.4.1.6).  This field is configured together with rimRSMonitoringInterval, rimRSMonitoringWindowStartingOffset, rimRSMonitoringOccasionInterval and rimRSMonitoringOccasionStartingOffset.  The duration of the monitoring window is expected to be larger than or equal to , where is the interval between adjacent monitoring occasions within the monitoring window (configured by rimRSMonitoringInterval).  The absolute duration of the monitoring window is not expected to be larger than the periodicity of the monitoring window (configured by rimRSMonitoringWindowPeriodicity).  Only the earliest consecutive detection durations in each RIM-RS transmission periodicity () in the monitoring window are taken as valid time for monitoring potential interference, and they are consecutively monitored in the monitoring window, while the residual part of each RIM-RS transmission periodicity is not used for discovering potential interference, where, a consecutive detection duration spans (if only is configured) or (if both and are configured), where,  is the number of consecutive uplink-downlinkswitching periods for RS-1 (configured by nrofConsecutiveRIMRS1),  is the first uplink-downlinkswitching period (configured by dlULSwitchingPeriod1),  is the second uplink-downlink switching period (configured by dlULSwitchingPeriod2), and  is the total number of set IDs for RIM RS-1 (configured by totalnrofSetIdofRS1),  is the number of candidate frequency resources in the whole network (configured by nrofGlobalRIMRSFrequencyCandidates), and  is the number of candidate sequences assigned for RIM RS-1 (configured by nrofRIMRSSequenceCandidatesofRS1).  allowedValues: 1,2,..2^14 | type: Integer  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| rimRSMonitoringWindowPeriodicity | This attribute configures the periodicity of the monitoring window, in unit of hours.  allowedValues: 1, 2, 3, 4, 6, 8, 12, 24 | type: Integer  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| rimRSMonitoringWindowStartingOffset | This attribute configures the start offset of the first monitoring window within one day, in unit of hours.  allowedValues: 0,1,2..23 | type: Integer  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| rimRSMonitoringOccasionInterval | This attribute configures the interval between adjacent monitoring occasions (*M*) within the monitoring window, in unit of consecutive detection duration.  *M* is expected to be prime to , where is given in above attribute rimRSMonitoringWindowDuration.  allowedValues: 1,2..-1. | type: Integer  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| rimRSMonitoringOccasionStartingOffset | This attribute configures the start offset of the first monitoring occasions within the monitoring window (), in unit of consecutive detection duration.  gNB starts monitoring potential interference from the -th consecutive detection duration in the first complete RIM-RS transmission periodicity () within the monitoring window.  allowedValues: 0,1,2..M-1  where M is the the interval between adjacent monitoring occasions within the monitoring window (configured by rimRSMonitoringOccasionInterval) | Integer  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| victimSetRef | This attribute contains the DN of a victim Set (RimRSSet)  allowedValues: Not applicable. | type: DN  multiplicity: 1  isOrdered: N/A  isUnique: True  defaultValue: None  isNullable: False |
| aggressorSetRef | This attribute contains the DN of an aggressor Set (RimRSSet)  allowedValues: Not applicable. | type: DN  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| setType | The attribute specifies type of a RIM-RS Set . RIM RS1 is generated and transmitted by victim to indicate its suffering remote interference, and RIM RS2 is generated and transmitted by aggressor to measure if Remote Interference still exist  If the attribute value is “RS1”, the RIM-RS Set is victim set.  If the attribute value is “RS2”, the RIM-RS Set is aggressor set.  allowedValues:  RS1, RS2. | type: ENUM  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| nRCellDURef | This attribute contains the DN of a NR Cell (NRCellDU)  allowedValues: Not applicable. | type: DN  multiplicity: \*  isOrdered: False  isUnique: True  defaultValue: None  isNullable: False |
| isENDCAllowed | This indicates if EN-DC is allowed or prohibited.  If TRUE, the target cell is allowed to be used for EN-DC. The target cell is referenced by the NRCellRelation that contains this isENDCAllowed.  If FALSE, EN-DC shall not be allowed.  allowedValues: TRUE,FALSE | type: Boolean  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| x2BlockList | This is a list of GeNBIds. If the target node GeNBId is a member of the source node’s NRCellCU.x2BlockList, the source node is:  1) prohibited from sending X2 connection requests to the target node;  2) forced to tear down an established X2 connection to the target node;  3) not allowed to accept incoming X2 connection requests from the target node.  The same GeNBId may appear here and in NRCellCU.x2AllowList. In such case, the GeNBId in x2AllowList shall be treated as if it is absent.  allowedValues: See NOTE 5. | type: String  multiplicity: 0..\*  isOrdered: False  isUnique: True  defaultValue: None  isNullable: False |
| xnBlockList | This is a list of GgNBIds. If the target node GgNBId is a member of the source node’s NRCellCU.xnBlockList, the source node is:  1) prohibited from sending Xn connection requests to the target node;  2) forced to tear down an established Xn connection to the target node;  3) not allowed to accept incoming Xn connection requests from the target node.  The same GgNBId may appear here and in NRCellCU.xnAllowList. In such case, the GgNBId in xnAllowList shall be treated as if it is absent.  allowedValues: See NOTE 5. | type: String  multiplicity: 0..\*  isOrdered: False  isUnique: True  defaultValue: None  isNullable: False |
| x2AllowList | This is a list of GeNBIds. If the target node GeNBId is a member of the source node’s NRCellCU.x2AllowList, the source node is:  1) allowed to request the establishment of an X2 connection to the target node; 2) not allowed to initiate the tear down of an established X2 connection to the target node  The same GeNBId may appear here and in NRCellCU.x2BlockList. In such case, the GeNBId here shall be treated as if it is absent.  allowedValues: See NOTE 5. | type: String  multiplicity: 0..\*  isOrdered: False  isUnique: True  defaultValue: None  isNullable: False |
| xnAllowList | This is a list of GgNBIds. If the target node GgNBId is a member of the source node’s NRCellCU.xnAllowList, the source node is:  1) allowed to request the establishment of Xn connection with the target node; 2) not allowed to initiate the tear down of an established Xn connection to the target node  The same GgNBId may appear here and in NRCellCU.xnBlockList. In such case, the GgNBId here shall be treated as if it is absent.  allowedValues: See NOTE 5. | type: String  multiplicity: 0..\*  isOrdered: False  isUnique: True  defaultValue: None  isNullable: False |
| xnHOBlockList | This is a list of GgNBIds. For all the entries in NRCellCU.xnHOBlockList, the subject NRCellCU is prohibited to use the Xn interface for HOs even if an Xn interface exists to the target cell.  allowedValues: See NOTE 5. | type: String  multiplicity: 0..\*  isOrdered: False  isUnique: True  defaultValue: None  isNullable: False |
| x2HOBlockList | This is a list of GeNBIds. For all the entries in NRCellCU.x2HOBlockList, the subject NRCellCU is prohibited to use the X2 interface for HOs even if an X2 interface exists to the target cell.  allowedValues: See NOTE 5. | type: String  multiplicity: 0..\*  isOrdered: False  isUnique: True  defaultValue: None  isNullable: False |
| tceIDMappingInfoList | This attribute includes a list of TCE ID, PLMN where TCE resides and the corresponding TCE IP address. It is used in Logged MDT case to provide the information to the gNodeB or GNBCUCPFunction to get the corresponding TCE IP address when there is an MDT log received from the UE.  allowedValues: Not applicable | type: tceIDMappingInfo  multiplicity: 1..\*  isOrdered: False  isUnique: True  defaultValue: None  isNullable: False |
| tceIPAddress | This attribute indicates IP address of TCE. (See subclause 4.1.1.9.2 in TS 32.422[68]) | type: String  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| tceID | This attribute indicates TCE Id. (See subclause 4.1.1.9.2 in TS 32.422[68]) | type: Integer  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| pLMNTarget | In tceIDMappingInfo datatype, this attribute indicates the PLMN where TCE resides. (See subclauses 4.1.1.9.2 and 4.9.2 in TS 32.422 [68])  In QceIdMappingInfo datatype, this attribute indicates the PLMN where QoE collection entity resides.  allowedValues: N/A | Type: PLMNId  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| isMLBAllowed | This indicates if mobility load balancing is allowed or prohibited from source cell to target cell.  If TRUE, load balancing is allowed from source cell to target cell. The source cell is identified by the name-containing NRCellCU of the NRCellRelation that contains the isMLBAllowed. The target cell is referenced by the NRCellRelation that contains this isLBAllowed. In case of isHOAllowed is FALSE, mobility load balancing is prohibited by handover from source cell to target cell.  If FALSE, load balancing shall be prohibited from source cell to target cell.  allowedValues: TRUE,FALSE | type: Boolean  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| NROperatorCellDU.nRCellDURef | This attribute contains the DN of the referenced NRCellDU.  allowedValues: N/A | type: DN  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| downlinkTransmitPowerRange | It indicates adjustment range (including maximum value, minimum value) of downlinkTransmitPower to optimize radio coverage.  allowedValues:  minValue: [0..100]  maxValue: [0..100] | type: ParameterRange  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| antennaTiltRange | It indicates adjustment range (including maximum value, minimum value) of antennaTilt to optimize radio coverage.  allowedValues:  minValue: [-900..900] in unit 0.1 degree  maxValue: [-900..900] in unit 0.1 degree | type: ParameterRange  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| antennaAzimuthRange | It indicates adjustment range (including maximum value, minimum value) of antennaAzimuth to optimize radio coverage.  allowedValues:  minValue: [-1800..1800] in unit 0.1 degree  maxValue: [-1800..1800] in unit 0.1 degree | type: ParameterRange  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| digitalTiltRange | It indicates adjustment range (including maximum value, minimum value) of digitalTilt to optimize radio coverage.  allowedValues:  minValue: [-900..900] in unit 0.1 degree  maxValue: [-900..900] in unit 0.1 degree | type: ParameterRange  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| digitalAzimuthRange | It indicates adjustment range (including maximum value, minimum value) of digitalAzimuth to optimize radio coverage.  allowedValues:  minValue: [-1800..1800] in unit 0.1 degree  maxValue: [-1800..1800] in unit 0.1 degree | type: ParameterRange  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| coverageShapeList | It indicates the coverage shape of specific sites which can be selected to optimize radio coverage.  allowedValues: 0 .. 65535 | type: Integer  multiplicity: 0..\*  isOrdered: True  isUnique: True  defaultValue: None  isNullable: False |
| cCOControl | This attribute determines whether the centralized SON CCO Function is enabled or disabled.  allowedValues: TRUE,FALSE | type: Boolean  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| maxValue | It indicates the maximum value of the parameter.  allowedValues: N/A | type: Integer  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| minValue | It indicates the minimum value of the parameter.  allowedValues: N/A | type: Integer  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| NROperatorCellDU.administrativeState | It indicates the administrative state of the NROperatorCellDU. It describes the permission to use or prohibition against using the cell, imposed through the OAM services.  The value of this attribute is effective only when the value of the attribute NRCellDU.administrativeState = UNLOCKED, if the value of the attribute NRCellDU.administrativeState is LOCKED or SHUTTING DOWN, the value of this attribute shall be treated same as the value of NRCellDU.administrativeState.  allowedValues: LOCKED, SHUTTING DOWN, UNLOCKED.  The meaning of these values is as defined in ITU‑T Recommendation X.731 [18]. | type: ENUM  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: LOCKED  isNullable: False |
| bWPSetRef | Contains the DN of a BWP set (BWPSet).  allowedValues: Not applicable | type: DN  multiplicity: \*  isOrdered: False  isUnique: True  defaultValue: None  isNullable: False |
| bWPList | Defines the list of DN of BWPs associated to the BWPSet.  allowedValues: Not applicable | type: DN  multiplicity: 0..12  isOrdered: False  isUnique: True  defaultValue: None  isNullable: False |
| ephemerisInfoSetRef | This is the DN of EphemerisInfoSet.  allowedValues: DN of the EphemerisInfoSet MOI. | type: DN  multiplicity: 0..1  isOrdered: False  isUnique: True  defaultValue: None  isNullable: False |
| ephemerisInfos | This is the list of Ephemeris related information.  allowedValues: N/A | type: Ephemeris  multiplicity: 1..\*  isOrdered: False  isUnique: True  defaultValue: None  allowedValues: N/A  isNullable: False |
| NTNFunction.nTNpLMNInfoList | It defines which PLMNs that can be served by the NR NTN cell, and which S-NSSAIs can be supported by the NR NTN cell for corresponding PLMN in case of network slicing feature is supported. The pLMNId of the first entry of the list is the PLMNId used to construct the nCGI for the NR cell.  allowedValues: Not applicable. | type: PLMNInfo  multiplicity: 1..\*  isOrdered: True  isUnique: True  defaultValue: None  isNullable: False |
| NTNFunction.nTNTACList | It is the list of Tracking Area Codes (either legacy TAC or extended TAC) for NR NTN.  allowedValues:  Legacy TAC and Extended TAC are defined in clause 9.3.3.10 of TS 38.413 [5]. | type: NrTac  multiplicity: 1..\*  isOrdered: False  isUnique: True  defaultValue: None  allowedValues: N/A  isNullable: False |
| satelliteId | This attribute indicates satellite Id.number. It shall be formatted as a fixed 5-digit string, padding with leading digits “0” to complete a 5-digit length.  allowedValues: 0..255  allowedValues: Follow the pattern: '^[0-9]{5}$' | type: String  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| epochTime | It defines the ephemeris reference time.,  aAllowedValues: N/A | type: DateTime  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| positionVelocity | It indicates ephemeris is in format of NTN payload position and velocity state vectors.  allowedValues: N/A | type: PositionVelocity  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| orbital | It indicates ephemeris is in orbital parameter ephemeris format, as specified in NIMA TR 8350.2 [95].  allowedValues: N/A | type: Orbital  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| positionX | X, Y, Z coordinate of satellite position state vector in ECEF. Unit is meter.  Step of 1.3 m. Actual value = field value \* 1.3.  allowedValues: 0..604800  Unit: meter | type: Integer  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: 0  isNullable: False |
| positionY | X, Y, Z coordinate of satellite position state vector in ECEF. Unit is meter.  Step of 1.3 m. Actual value = field value \* 1.3.  allowedValues: 0..604800  Unit: meter | type: Integer  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: 0  isNullable: False |
| positionZ | X, Y, Z coordinate of satellite position state vector in ECEF. Unit is meter.  Step of 1.3 m. Actual value = field value \* 1.3.  allowedValues: 0..604800  Unit: meter | type: Integer  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: 0  isNullable: False |
| velocityVX | X, Y, Z coordinate of satellite velocity state vector in ECEF.  Step of 0.06 m/s. Actual value = field value \* 0.06.  allowedValues: -131072..131071  Unit: meter/second | type: Integer  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: 0  isNullable: False |
| velocityVY | X, Y, Z coordinate of satellite velocity state vector in ECEF.  Step of 0.06 m/s. Actual value = field value \* 0.06.  allowedValues: -131072..131071  Unit: meter/second | type: Integer  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: 0  isNullable: False |
| velocityVZ | X, Y, Z coordinate of satellite velocity state vector in ECEF.  Step of 0.06 m/s. Actual value = field value \* 0.06.  allowedValues: -131072..131071  Unit: meter/second | type: Integer  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: 0  isNullable: False |
| semiMajorAxis | Satellite orbital parameter: semi major axis a, see NIMA TR 8350.2 [95].  Step of 4.249 \* 10-3 m. Actual value = 6500000 + field value \* (4.249 \* 10-3).  allowedValues: 0..8589934591  Unit: meter | type: Integer  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: 0  isNullable: False |
| eccentricity | Satellite orbital parameter: eccentricity e, see NIMA TR 8350.2 [95].  Step 1.431 \* 10-8. Actual value = field value \* (1.431 \* 10-8).  allowedValues: -524288..524287 | type: Integer  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: 0  isNullable: False |
| periapsis | Satellite orbital parameter: argument of periapsis w, see NIMA TR 8350.2 [95].  Step of 2.341\* 10-8 rad. Actual value = field value \* (2.341\* 10-8).  allowedValues: 0..16777215  Unit: radian | type: Integer  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: 0  isNullable: False |
| longitude | Satellite orbital parameter: longitude of ascending node W, see NIMA TR 8350.2 [95].  Step of 2.341\* 10-8 rad. Actual value = field value \* (2.341\* 10-8).  allowedValues: 0..2097151  Unit: radian | type: Integer  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: 0  isNullable: False |
| inclination | Satellite orbital parameter: inclination i, see NIMA TR 8350.2 [95].  Step of 2.341\* 10-8 rad. Actual value = field value \* (2.341\* 10-8).  allowedValues: -524288..524287  Unit: radian | type: Integer  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: 0  isNullable: False |
| meanAnomaly | Satellite orbital parameter: Mean anomaly M at epoch time, see NIMA TR 8350.2 [95].  Step of 2.341\* 10-8 rad. Actual value = field value \* (2.341\* 10-8).  allowedValues: 0..16777215  Unit: radian | type: Integer  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: 0  isNullable: False |
| qoECollectionEntityAddress | Specifies the IP address to which the QMC reports shall be transferred.  IP address can be an IPv4 address (See RFC 791 [37]) or an IPv6 address (See RFC 2373 [38]).  allowedValues: N/A | type: String  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| qoECollectionEntityIdentity | Specifies a unique identity of the QoE collection entity to which the QMC reports shall be transferred. (For details, please see subclause 5 of TS 28.405[104])  allowedValues: N/A | type: String  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| qceIdMappingInfoList | It identifies a list of relationship between the identity of the QoE collection entity, PLMN where QoE collection entity resides, and the IP address of the QoE collection entity.  allowedValues: N/A | type: QceIdMappingInfo  multiplicity: 1..\*  isOrdered: False  isUnique: True  defaultValue: None  isNullable: False |
| mdtUserConsentReqList | It represents a list of MDT measurement names that are subject to user consent at MDT activation.  Any MDT measurement, whose name is not specified in this list, is not subject to user consent at MDT activation.  allowedValues: M1, M2, M3, M4, M5, M6, M7, M8, M9, MDT\_UE\_LOCATION.  No other value is allowed. | type: ENUM  multiplicity: \*  isOrdered: False  isUnique: True  defaultValue: None  isNullable: False |
| mappedCellIdInfoList | This attribute provides the list of mapping between geographical location and Mapped Cell ID.  allowedValues: Not applicable | type: MappedCellIdInfo  multiplicity: 0..\*  isOrdered: False  isUnique: True  defaultValue: None  isNullable: False |
| ntnGeoArea | This attribute indicates a specific geographical location mapped to Mapped Cell ID(s).  allowedValues: N/A | type: GeoArea  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| mappedCellId | This attribute is in format of NCGI to indicate a fixed geographical area (See subclause 16.14.5 in TS 38.300[3]).  allowedValues: N/A | type: Ncgi  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| mLModelRefList | This attribute holds a DN list of MLModel (See TS 28.105 [105]) . | type: DN  multiplicity: 0..\*  isOrdered: False  isUnique: True  defaultValue: None  isNullable: False |
| aIMLInferenceFunctionRefList | This attribute holds a DN list of AIMLInferenceFunction (See TS 28.105 [105]) . | type: DN  multiplicity: 0..\*  isOrdered: False  isUnique: True  defaultValue: None  isNullable: False |
| NOTE 1: Void  NOTE 2: The radio resource can be signaling resources (e.g. RRC connected users) or user plane resources (e.g. PRB, PRB UL, PRB DL, DRB). Different RRM Policy maybe applied for different types of radio resource. E.g. RRMPolicyRatio is used for PRB resource. When the resource type is PRB the policy applies for both uplink and downlink, and ‘PRB UL’ and ‘PRB DL’ are not used.  NOTE 3: Void  NOTE 4: A RRM Policy can make use of the defined policy (e.g. RRMPolicyRatio) or a vendor specific RRM Policy.  NOTE 5: For Global gNB Identifiers, the entries are formatted according to the pattern <mcc><mnc>-<gNBIdLength>-<gNBId>, where <mcc> is three digits, <mnc> two or three digits, <gNBIdLength> is a string containing a number n as digits, in the range 22 to 32, and <gNBId> is a string containing digits for the number 0 to 2n-1. For Global eNB Identifiers, the entries are formatted according to the pattern <mcc><mnc>-<eNBIdLength>-<eNBId>, where <mcc> is three digits, <mnc> two or three digits, <gNBIdLength> is a string containing a number m as digits, m being one of 18, 20, 21 or 22, and <eNBId> is a string containing digits for the number 0 to 2m-1.  NOTE 6: The maximum number of total RIM RS sequence within 10ms is 32 regardless single or two uplink-downlink period are configured in the 10ms.  NOTE 7:  1. The maximum number of consecutive uplink-downlink switching periods for repetition/near-far-functionality is 8 (the number can be either 2, 4, or 8) with near-far functionality and with repetition.  2. The maximum number of consecutive uplink-downlink switching periods for repetition is 4 (the number can be either 1, 2, or 4) without near-far functionality and with repetition only.  3. The maximum number of consecutive uplink-downlink switching periods is 2 with near-far functionality only and without repetition.  NOTE 8: (for information): “Not enough mitigation” means aggressor gNB needs to increase the interference mitigation level (i.e., further interference mitigation actions) (e.g., further reducing the DL transmission power on DL symbols at aggressor side), while “Enough mitigation” means aggressor gNB keeping the current interference mitigation level unchanged (i.e., no further interference mitigation actions) (e.g., remaining the DL transmission power on DL symbols unchanged at aggressor side).  NOTE 9: Value MS0P5 corresponds to 0.5 ms, MS0P625 corresponds to 0.625 ms, MS1 corresponds to 1 ms, MS1P25 corresponds to 1.25 ms, and so on.  NOTE 10: RIM RS-1, RIM-RS1，RIM RS1 is equivalent to RIM-RS type 1 (see 38.211 [32], clause 7.4.1.6) RIM RS-2, RIM-RS2，RIM RS2 is equivalent to RIM-RS type 2 (see 38.211 [32], clause 7.4.1.6). | | |

|  |
| --- |
| **Next modification** |

### 5.3.226 AnLFFunction

#### 5.3.226.1 Definition

This IOC represents the Analytics logical function (AnLF) contained by NWDAF (see TS 23.288 [101]).

The AnLF may be supported by AI/ML feature (See TS 28.105 [105]). Attribute mLModelRef indicates that AI/ML is supported for this function. Attribute AIMLInferenceFunctionRef indicates that AI/ML Inference Function is supported for this function.

#### 5.3.226.2 Attributes

This IOC includes attributes inherited from ManagedFunction (defined in TS 28.622[30]) and the following attributes:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute name** | **S** | **isReadable** | **isWritable** | **isInvariant** | **isNotifyable** |
| activationStatus | M | T | F | F | T |
| **Attribute related to role** |  |  |  |  |  |
| mLModelRefList | CM | T | F | F | T |
| aIMLInferenceFunctionRefList | CM | T | F | F | T |

#### 

#### 5.3.226.X Attribute constraints

|  |  |
| --- | --- |
| Name | Definition |
| mLModelRefList | The condition is "AIML feature is supported". |
| aIMLInferenceFunctionRefList | The condition is "AIMLInferenceFunction is supported". |

|  |
| --- |
| **Next of modification** |

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

\*\*\* OpenAPI/TS28541\_5GcNrm.yaml \*\*\*

<CODE BEGINS>

openapi: 3.0.1

info:

title: 3GPP 5GC NRM

version: 18.8.0

description: >-

OAS 3.0.1 specification of the 5GC NRM

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externalDocs:

description: 3GPP TS 28.541; 5G NRM, 5GC NRM

url: http://www.3gpp.org/ftp/Specs/archive/28\_series/28.541/

paths: {}

components:

schemas:

#-------- Definition of types-----------------------------------------------------

AmfIdentifier:

type: object

description: 'AmfIdentifier comprise of amfRegionId, amfSetId and amfPointer'

properties:

amfRegionId:

$ref: '#/components/schemas/AmfRegionId'

amfSetId:

$ref: '#/components/schemas/AmfSetId'

amfPointer:

$ref: '#/components/schemas/AmfPointer'

AmfRegionId:

type: integer

description: AmfRegionId is defined in TS 23.003

maximum: 255

AmfSetId:

type: string

description: AmfSetId is defined in TS 23.003

maximum: 1023

AmfPointer:

type: integer

description: AmfPointer is defined in TS 23.003

maximum: 63

IpEndPoint:

type: object

properties:

ipv4Address:

$ref: 'TS28623\_ComDefs.yaml#/components/schemas/Ipv4Addr'

ipv6Address:

$ref: 'TS28623\_ComDefs.yaml#/components/schemas/Ipv6Addr'

ipv6Prefix:

$ref: 'TS28623\_ComDefs.yaml#/components/schemas/Ipv6Prefix'

transport:

$ref: 'TS28623\_GenericNrm.yaml#/components/schemas/TransportProtocol'

port:

type: integer

NFProfileList:

type: array

description: List of NF profile

items:

$ref: '#/components/schemas/NFProfile'

NFProfile:

type: object

description: 'NF profile stored in NRF, defined in TS 29.510'

properties:

nFInstanceId:

type: string

description: uuid of NF instance

nFType:

$ref: 'TS28623\_GenericNrm.yaml#/components/schemas/NFType'

nFStatus:

$ref: '#/components/schemas/NFStatus'

plmn:

$ref: 'TS28623\_ComDefs.yaml#/components/schemas/PlmnId'

sNssais:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/Snssai'

fqdn:

$ref: 'TS28623\_ComDefs.yaml#/components/schemas/Fqdn'

interPlmnFqdn:

$ref: 'TS28623\_ComDefs.yaml#/components/schemas/Fqdn'

nfServices:

type: array

items:

$ref: '#/components/schemas/NFService'

NFService:

type: object

description: NF Service is defined in TS 29.510

properties:

serviceInstanceId:

type: string

serviceName:

type: string

version:

type: string

schema:

type: string

fqdn:

$ref: 'TS28623\_ComDefs.yaml#/components/schemas/Fqdn'

interPlmnFqdn:

$ref: 'TS28623\_ComDefs.yaml#/components/schemas/Fqdn'

ipEndPoints:

type: array

items:

$ref: '#/components/schemas/IpEndPoint'

apiPrfix:

type: string

allowedPlmns:

$ref: 'TS28623\_ComDefs.yaml#/components/schemas/PlmnId'

allowedNfTypes:

type: array

items:

$ref: 'TS28623\_GenericNrm.yaml#/components/schemas/NFType'

allowedNssais:

type: array

items:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/Snssai'

NFStatus:

type: string

description: any of enumerated value

enum:

- REGISTERED

- SUSPENDED

CNSIIdList:

type: array

items:

$ref: '#/components/schemas/CNSIId'

CNSIId:

type: string

description: CNSI Id is defined in TS 29.531, only for Core Network

EnergySavingControl:

type: string

description: any of enumerated value

enum:

- TO\_BE\_ENERGYSAVING

- TO\_BE\_NOT\_ENERGYSAVING

EnergySavingState:

type: string

description: any of enumerated value

enum:

- IS\_NOT\_ENERGYSAVING

- IS\_ENERGYSAVING

TACList:

type: array

items:

$ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Tac'

WeightFactor:

type: integer

VendorId:

type: string

description: Vendor ID of the NF Service instance (Private Enterprise Number assigned by IANA)

pattern: '^[0-9]{6}$'

AusfInfo:

type: object

properties:

nFSrvGroupId:

type: string

supiRanges:

type: array

items:

$ref: '#/components/schemas/SupiRange'

minItems: 1

routingIndicators:

type: array

items:

type: string

pattern: '^[0-9]{1,4}$'

minItems: 1

suciInfos:

type: array

items:

$ref: '#/components/schemas/SuciInfo'

minItems: 1

SupportedDataSet:

type: string

description: any of enumerated value

enum:

- SUBSCRIPTION

- POLICY

- EXPOSURE

- APPLICATION

- A\_PFD

- A\_AFTI

- A\_IPTV

- A\_BDT

- A\_SPD

- A\_EASD

- A\_AMI

- P\_UE

- P\_SCD

- P\_BDT

- P\_PLMNUE

- P\_NSSCD

NotificationType:

type: string

enum:

- N1\_MESSAGES

- N2\_INFORMATION

- LOCATION\_NOTIFICATION

- DATA\_REMOVAL\_NOTIFICATION

- DATA\_CHANGE\_NOTIFICATION

- LOCATION\_UPDATE\_NOTIFICATION

- NSSAA\_REAUTH\_NOTIFICATION

- NSSAA\_REVOC\_NOTIFICATION

DefaultNotificationSubscription:

type: object

properties:

notificationType:

$ref: '#/components/schemas/NotificationType'

callbackURI:

type: string

n1MessageClass:

type: boolean

n2InformationClass:

type: boolean

versions:

type: string

binding:

type: string

ManagedNFProfile:

type: object

properties:

nfInstanceID:

type: string

nfType:

$ref: 'TS28623\_GenericNrm.yaml#/components/schemas/NFType'

heartbeatTimer:

type: integer

authzInfo:

type: string

hostAddr:

$ref: 'TS28623\_ComDefs.yaml#/components/schemas/HostAddr'

allowedPLMNs:

type: array

items:

$ref: 'TS28623\_ComDefs.yaml#/components/schemas/PlmnId'

sNPNList:

type: array

items:

$ref: '#/components/schemas/SnpnId'

allowedSNPNs:

type: array

items:

$ref: '#/components/schemas/SnpnId'

allowedNfTypes:

type: array

items:

$ref: 'TS28623\_GenericNrm.yaml#/components/schemas/NFType'

allowedNfDomains:

type: array

items:

type: string

allowedNSSAIs:

type: array

items:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/Snssai'

locality:

type: string

capacity:

type: integer

nfSetIdList:

type: array

items:

type: string

servingScope:

type: array

items:

type: string

lcHSupportInd:

type: boolean

olcHSupportInd:

type: boolean

nfSetRecoveryTimeList:

type: array

items:

$ref: 'TS28623\_ComDefs.yaml#/components/schemas/DateTime'

scpDomains:

type: array

items:

type: string

recoveryTime:

$ref: 'TS28623\_ComDefs.yaml#/components/schemas/DateTime'

nfServicePersistence:

type: boolean

nfProfileChangesSupportInd:

type: boolean

defaultNotificationSubscriptions:

type: array

items:

$ref: '#/components/schemas/DefaultNotificationSubscription'

minItems: 1

serviceSetRecoveryTimeList:

type: array

items:

$ref: 'TS28623\_ComDefs.yaml#/components/schemas/DateTime'

minItems: 1

vendorId:

$ref: '#/components/schemas/VendorId'

SEPPType:

type: string

description: any of enumerated value

enum:

- CSEPP

- PSEPP

SupportedFunc:

type: object

properties:

function:

type: string

policy:

type: string

SupportedFuncList:

type: array

items:

$ref: '#/components/schemas/SupportedFunc'

CommModelType:

type: string

description: any of enumerated value

enum:

- DIRECT\_COMMUNICATION\_WO\_NRF

- DIRECT\_COMMUNICATION\_WITH\_NRF

- INDIRECT\_COMMUNICATION\_WO\_DEDICATED\_DISCOVERY

- INDIRECT\_COMMUNICATION\_WITH\_DEDICATED\_DISCOVERY

CommModel:

type: object

properties:

groupId:

type: integer

commModelType:

$ref: '#/components/schemas/CommModelType'

targetNFServiceList:

$ref: 'TS28623\_ComDefs.yaml#/components/schemas/DnList'

commModelConfiguration:

type: string

CommModelList:

type: array

items:

$ref: '#/components/schemas/CommModel'

CapabilityList:

type: array

items:

type: string

FiveQiDscpMapping:

type: object

properties:

fiveQIValues:

type: array

items:

type: integer

dscp:

type: integer

NetworkSliceInfo:

type: object

properties:

sNSSAI:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/Snssai'

cNSIId:

$ref: '#/components/schemas/CNSIId'

networkSliceRef:

$ref: 'TS28623\_ComDefs.yaml#/components/schemas/DnList'

NetworkSliceInfoList:

type: array

items:

$ref: '#/components/schemas/NetworkSliceInfo'

PacketErrorRate:

type: object

properties:

scalar:

type: integer

exponent:

type: integer

GtpUPathDelayThresholdsType:

type: object

properties:

n3AveragePacketDelayThreshold:

type: integer

n3MinPacketDelayThreshold:

type: integer

n3MaxPacketDelayThreshold:

type: integer

n9AveragePacketDelayThreshold:

type: integer

n9MinPacketDelayThreshold:

type: integer

n9MaxPacketDelayThreshold:

type: integer

QFPacketDelayThresholdsType:

type: object

properties:

thresholdDl:

type: integer

thresholdUl:

type: integer

thresholdRtt:

type: integer

QosData:

type: object

properties:

qosId:

type: string

fiveQIValue:

type: integer

maxbrUl:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/BitRateRm'

maxbrDl:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/BitRateRm'

gbrUl:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/BitRateRm'

gbrDl:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/BitRateRm'

arp:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Arp'

qosNotificationControl:

type: boolean

reflectiveQos:

type: boolean

sharingKeyDl:

type: string

sharingKeyUl:

type: string

maxPacketLossRateDl:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/PacketLossRateRm'

maxPacketLossRateUl:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/PacketLossRateRm'

extMaxDataBurstVol:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/ExtMaxDataBurstVolRm'

QosDataList:

type: array

items:

$ref: '#/components/schemas/QosData'

SteeringMode:

type: object

properties:

steerModeValue:

$ref: 'TS29512\_Npcf\_SMPolicyControl.yaml#/components/schemas/SteerModeValue'

active:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/AccessType'

standby:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/AccessTypeRm'

threeGLoad:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Uinteger'

prioAcc:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/AccessType'

TrafficControlData:

type: object

properties:

tcId:

type: string

flowStatus:

$ref: 'TS29514\_Npcf\_PolicyAuthorization.yaml#/components/schemas/FlowStatus'

redirectInfo:

$ref: 'TS29512\_Npcf\_SMPolicyControl.yaml#/components/schemas/RedirectInformation'

addRedirectInfo:

type: array

items:

$ref: 'TS29512\_Npcf\_SMPolicyControl.yaml#/components/schemas/RedirectInformation'

minItems: 1

muteNotif:

type: boolean

trafficSteeringPolIdDl:

type: string

nullable: true

trafficSteeringPolIdUl:

type: string

nullable: true

routeToLocs:

type: array

items:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/RouteToLocation'

traffCorreInd:

type: boolean

upPathChgEvent:

$ref: 'TS29512\_Npcf\_SMPolicyControl.yaml#/components/schemas/UpPathChgEvent'

steerFun:

$ref: 'TS29512\_Npcf\_SMPolicyControl.yaml#/components/schemas/SteeringFunctionality'

steerModeDl:

$ref: '#/components/schemas/SteeringMode'

steerModeUl:

$ref: '#/components/schemas/SteeringMode'

mulAccCtrl:

$ref: 'TS29512\_Npcf\_SMPolicyControl.yaml#/components/schemas/MulticastAccessControl'

snssaiList:

$ref: '#/components/schemas/SnssaiList'

TrafficControlDataList:

type: array

items:

$ref: '#/components/schemas/TrafficControlData'

PccRule:

type: object

properties:

pccRuleId:

type: string

description: Univocally identifies the PCC rule within a PDU session.

flowInfoList:

type: array

items:

$ref: 'TS29512\_Npcf\_SMPolicyControl.yaml#/components/schemas/FlowInformation'

applicationId:

type: string

appDescriptor:

$ref: 'TS29512\_Npcf\_SMPolicyControl.yaml#/components/schemas/ApplicationDescriptor'

contentVersion:

$ref: 'TS29514\_Npcf\_PolicyAuthorization.yaml#/components/schemas/ContentVersion'

precedence:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Uinteger'

afSigProtocol:

$ref: 'TS29512\_Npcf\_SMPolicyControl.yaml#/components/schemas/AfSigProtocol'

isAppRelocatable:

type: boolean

isUeAddrPreserved:

type: boolean

qosData:

type: array

items:

$ref: '#/components/schemas/QosDataList'

altQosParams:

type: array

items:

$ref: '#/components/schemas/QosDataList'

trafficControlData:

type: array

items:

$ref: '#/components/schemas/TrafficControlDataList'

conditionData:

$ref: 'TS29512\_Npcf\_SMPolicyControl.yaml#/components/schemas/ConditionData'

tscaiInputDl:

$ref: 'TS29514\_Npcf\_PolicyAuthorization.yaml#/components/schemas/TscaiInputContainer'

tscaiInputUl:

$ref: 'TS29514\_Npcf\_PolicyAuthorization.yaml#/components/schemas/TscaiInputContainer'

SnssaiInfo:

type: object

properties:

plmnInfo:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/PlmnInfo'

administrativeState:

$ref: 'TS28623\_ComDefs.yaml#/components/schemas/AdministrativeState'

NsacfInfoSnssai:

type: object

properties:

SnssaiInfo:

$ref: '#/components/schemas/SnssaiInfo'

isSubjectToNsac:

type: boolean

maxNumberofUEs:

type: integer

eACMode:

type: string

enum:

- INACTIVE

- ACTIVE

activeEacThreshold:

type: integer

deactiveEacThreshold:

type: integer

numberofUEs:

type: integer

uEIdList:

type: array

items:

type: string

maxNumberofPDUSessions:

type: integer

NRTACRange:

type: object

properties:

nRTACstart:

type: string

nRTACend:

type: string

nRTACpattern:

type: string

TaiRange:

type: object

properties:

plmnId:

$ref: 'TS28623\_ComDefs.yaml#/components/schemas/PlmnId'

nRTACRangelist:

type: array

items:

$ref: '#/components/schemas/NRTACRange'

GUAMInfo:

type: object

properties:

pLMNId:

$ref: 'TS28623\_ComDefs.yaml#/components/schemas/PlmnId'

aMFIdentifier:

type: integer

SupportedBMOList:

type: array

items:

type: string

ECSAddrConfigInfo:

type: array

items:

type: string

DnnSmfInfoItem:

type: object

properties:

dnn:

type: string

dnaiList:

type: array

items:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Dnai'

minItems: 1

dnaiSatelliteMapping:

type: object

properties:

dnaiList:

type: array

items:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Dnai'

minItems: 1

geoSatelliteId:

type: string

pattern: '^[0-9]{5}$'

SnssaiSmfInfoItem:

type: object

properties:

sNSSAI:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/Snssai'

dnnSmfInfoList:

type: array

items:

$ref: '#/components/schemas/DnnSmfInfoItem'

5GCNfConnEcmInfoList:

type: array

items:

$ref: '#/components/schemas/5GCNfConnEcmInfo'

5GCNfConnEcmInfo:

type: object

description: 'Store the 5GC NF connection information'

properties:

5GCNFType:

type: string

enum:

- PCF

- NEF

- SCEF

5GCNFIpAddress:

type: string

5GCNFRef:

$ref: 'TS28623\_ComDefs.yaml#/components/schemas/Dn'

UPFConnectionInfo:

type: object

properties:

uPFIpAddress:

type: string

uPFRef:

$ref: 'TS28623\_ComDefs.yaml#/components/schemas/Dn'

SnssaiList:

type: array

items:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/Snssai'

SnpnId:

type: object

properties:

mcc:

$ref: 'TS28623\_ComDefs.yaml#/components/schemas/Mcc'

mnc:

$ref: 'TS28623\_ComDefs.yaml#/components/schemas/Mnc'

nid:

type: string

TaiList:

type: array

items:

$ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Tai'

SupiRange:

type: object

properties:

start:

type: string

end:

type: string

pattern:

type: string

IdentityRange:

type: object

properties:

start:

type: string

end:

type: string

pattern:

type: string

ProseCapability:

type: object

properties:

proseDirectDiscovery:

type: boolean

proseDirectCommunication:

type: boolean

proseL2UetoNetworkRelay:

type: boolean

proseL3UetoNetworkRelay:

type: boolean

proseL2RemoteUe:

type: boolean

proseL3RemoteUe:

type: boolean

V2xCapability:

type: object

properties:

lteV2x:

type: boolean

nrV2x:

type: boolean

InternalGroupIdRange:

type: object

properties:

start:

type: string

end:

type: string

pattern:

type: string

SuciInfo:

type: object

properties:

routingInds:

type: array

items:

type: string

hNwPubKeyIds:

type: array

items:

type: integer

SuciInfoList:

type: array

items:

$ref: '#/components/schemas/SuciInfo'

SharedDataIdRange:

type: object

properties:

pattern:

type: string

SupiRangeList:

type: array

items:

$ref: '#/components/schemas/SupiRange'

IdentityRangeList:

type: array

items:

$ref: '#/components/schemas/IdentityRange'

InternalGroupIdRangeList:

type: array

items:

$ref: '#/components/schemas/InternalGroupIdRange'

SupportedDataSetList:

type: array

items:

$ref: '#/components/schemas/SupportedDataSet'

SharedDataIdRangeList:

type: array

items:

$ref: '#/components/schemas/SharedDataIdRange'

InterfaceUpfInfoItem:

type: object

properties:

interfaceType:

type: string

enum:

- N3

- N6

- N9

- DATA\_FORWARDING

- N3MB

- N6MB

- N19MB

- NMB9

ipv4EndpointAddresses:

type: array

items:

$ref: 'TS28623\_ComDefs.yaml#/components/schemas/Ipv4Addr'

minItems: 1

ipv6EndpointAddresses:

type: array

items:

$ref: 'TS28623\_ComDefs.yaml#/components/schemas/Ipv6Addr'

minItems: 1

fqdn:

$ref: 'TS28623\_ComDefs.yaml#/components/schemas/Fqdn'

networkInstance:

type: string

AtsssCapability:

type: object

properties:

atsssLL:

type: boolean

mptcp:

type: boolean

rttWithoutPmf:

type: boolean

IpInterface:

type: object

properties:

ipv4EndpointAddresses:

$ref: 'TS28623\_ComDefs.yaml#/components/schemas/Ipv4Addr'

ipv6EndpointAddresses:

$ref: 'TS28623\_ComDefs.yaml#/components/schemas/Ipv6Addr'

fqdn:

$ref: 'TS28623\_ComDefs.yaml#/components/schemas/Fqdn'

Ipv4AddressRange:

description: Range of IPv4 addresses

type: object

properties:

start:

$ref: 'TS28623\_ComDefs.yaml#/components/schemas/Ipv4Addr'

end:

$ref: 'TS28623\_ComDefs.yaml#/components/schemas/Ipv4Addr'

Ipv6PrefixRange:

description: Range of IPv6 prefixes

type: object

properties:

start:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Ipv6Prefix'

end:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Ipv6Prefix'

Nid:

type: string

pattern: '^[A-Fa-f0-9]{11}$'

PlmnIdNid:

type: object

properties:

mcc:

$ref: 'TS28623\_ComDefs.yaml#/components/schemas/Mcc'

mnc:

$ref: 'TS28623\_ComDefs.yaml#/components/schemas/Mnc'

nid:

$ref: '#/components/schemas/Nid'

ScpCapability:

type: string

enum:

- INDIRECT\_COM\_WITH\_DELEG\_DISC

IpReachability:

description: Indicates the type(s) of IP addresses reachable via an SCP

anyOf:

- type: string

enum:

- IPV4

- IPV6

- IPV4V6

- type: string

ScpDomainInfo:

description: SCP Domain specific information

type: object

properties:

scpFqdn:

$ref: 'TS28623\_ComDefs.yaml#/components/schemas/Fqdn'

scpIpEndPoints:

type: array

items:

$ref: 'TS28541\_5GcNrm.yaml#/components/schemas/IpEndPoint'

minItems: 1

scpPrefix:

type: string

scpPorts:

description: >

Port numbers for HTTP and HTTPS. The key of the map shall be "http" or "https".

type: object

additionalProperties:

type: integer

minimum: 0

maximum: 65535

minProperties: 1

SeppInfo:

description: Information of a SEPP Instance

type: object

properties:

seppPrefix:

type: string

seppPorts:

description: >

Port numbers for HTTP and HTTPS. The key of the map shall be "http" or "https".

type: object

additionalProperties:

type: integer

minimum: 0

maximum: 65535

minProperties: 1

remotePlmnList:

type: array

items:

$ref: 'TS28623\_ComDefs.yaml#/components/schemas/PlmnId'

minItems: 1

remoteSnpnList:

type: array

items:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/PlmnIdNid'

minItems: 1

UdsfInfo:

description: Information related to UDSF

type: object

properties:

groupId:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/NfGroupId'

supiRanges:

type: array

items:

$ref: '#/components/schemas/SupiRange'

minItems: 1

storageIdRanges:

description: >

A map (list of key-value pairs) where realmId serves as key and each value in the map

is an array of IdentityRanges. Each IdentityRange is a range of storageIds.

type: object

additionalProperties:

type: array

items:

$ref: '#/components/schemas/IdentityRange'

minItems: 1

minProperties: 1

NsacfCapability:

description: >

NSACF service capabilities (e.g. to monitor and control the number of registered UEs

or established PDU sessions per network slice)

type: object

properties:

supportUeSAC:

description: |

Indicates the service capability of the NSACF to monitor and control the number of

registered UEs per network slice for the network slice that is subject to NSAC

true: Supported

false (default): Not Supported

type: boolean

default: false

supportPduSAC:

description: |

Indicates the service capability of the NSACF to monitor and control the number of

established PDU sessions per network slice for the network slice that is subject to NSAC

true: Supported

false (default): Not Supported

type: boolean

default: false

NsacfInfo:

description: Information of a NSACF NF Instance

type: object

required:

- nsacfCapability

properties:

nsacfCapability:

$ref: '#/components/schemas/NsacfCapability'

taiList:

$ref: '#/components/schemas/TaiList'

taiRangeList:

type: array

items:

$ref: '#/components/schemas/TaiRange'

minItems: 1

NwdafCapability:

description: Indicates the capability supported by the NWDAF

type: object

properties:

analyticsAggregation:

type: boolean

default: false

analyticsMetadataProvisioning:

type: boolean

default: false

MlAnalyticsInfo:

description: ML Analytics Filter information supported by the Nnwdaf\_MLModelProvision service

type: object

properties:

mlAnalyticsIds:

type: array

items:

$ref: 'TS29520\_Nnwdaf\_EventsSubscription.yaml#/components/schemas/NwdafEvent'

minItems: 1

snssaiList:

$ref: '#/components/schemas/SnssaiList'

trackingAreaList:

$ref: '#/components/schemas/TaiList'

mlModelInterInfo:

type: array

items:

$ref: '#/components/schemas/VendorId'

minItems: 0

flCapabilityType:

type: string

enum:

- FL\_SERVER

- FL\_CLIENT

- FL\_SERVER\_AND\_CLIENT

flTimeInterval:

type: array

items:

$ref: 'TS28623\_ComDefs.yaml#/components/schemas/TimeWindow'

minItems: 1

NwdafInfo:

description: Information of a NWDAF NF Instance

type: object

properties:

eventIds:

type: array

items:

$ref: 'TS29520\_Nnwdaf\_AnalyticsInfo.yaml#/components/schemas/EventId'

minItems: 1

nwdafEvents:

type: array

items:

$ref: 'TS29520\_Nnwdaf\_EventsSubscription.yaml#/components/schemas/NwdafEvent'

minItems: 1

taiList:

$ref: '#/components/schemas/TaiList'

taiRangeList:

type: array

items:

$ref: '#/components/schemas/TaiRange'

minItems: 1

nwdafCapability:

$ref: '#/components/schemas/NwdafCapability'

analyticsDelay:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/DurationSec'

servingNfSetIdList:

type: array

items:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/NfSetId'

minItems: 1

servingNfTypeList:

type: array

items:

$ref: 'TS28623\_GenericNrm.yaml#/components/schemas/NFType'

minItems: 1

mlAnalyticsList:

type: array

items:

$ref: '#/components/schemas/MlAnalyticsInfo'

minItems: 1

ScpInfo:

description: Information of an SCP Instance

type: object

properties:

scpDomainInfoList:

description: >

A map (list of key-value pairs) where the key of the map shall be the string

identifying an SCP domain

type: object

additionalProperties:

$ref: '#/components/schemas/ScpDomainInfo'

minProperties: 1

scpPrefix:

type: string

scpPorts:

description: >

Port numbers for HTTP and HTTPS. The key of the map shall be "http" or "https".

type: object

additionalProperties:

type: integer

minimum: 0

maximum: 65535

minProperties: 1

addressDomains:

type: array

items:

type: string

minItems: 1

ipv4Addresses:

type: array

items:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Ipv4Addr'

minItems: 1

ipv6Prefixes:

type: array

items:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Ipv6Prefix'

minItems: 1

ipv4AddrRanges:

type: array

items:

$ref: '#/components/schemas/Ipv4AddressRange'

minItems: 1

ipv6PrefixRanges:

type: array

items:

$ref: '#/components/schemas/Ipv6PrefixRange'

minItems: 1

servedNfSetIdList:

type: array

items:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/NfSetId'

minItems: 1

remotePlmnList:

type: array

items:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/PlmnId'

minItems: 1

remoteSnpnList:

type: array

items:

$ref: '#/components/schemas/PlmnIdNid'

minItems: 1

ipReachability:

$ref: '#/components/schemas/IpReachability'

scpCapabilities:

type: array

items:

$ref: '#/components/schemas/ScpCapability'

PfdData:

description: List of Application IDs and/or AF IDs managed by a given NEF Instance

type: object

properties:

appIds:

type: array

items:

type: string

minItems: 1

afIds:

type: array

items:

type: string

minItems: 1

AfEvent:

description: Represents Application Events.

anyOf:

- type: string

enum:

- SVC\_EXPERIENCE

- UE\_MOBILITY

- UE\_COMM

- EXCEPTIONS

- USER\_DATA\_CONGESTION

- PERF\_DATA

- DISPERSION

- COLLECTIVE\_BEHAVIOUR

- MS\_QOE\_METRICS

- MS\_CONSUMPTION

- MS\_NET\_ASSIST\_INVOCATION

- MS\_DYN\_POLICY\_INVOCATION

- MS\_ACCESS\_ACTIVITY

- type: string

description: >

This string provides forward-compatibility with future extensions to the enumeration but

is not used to encode content defined in the present version of this API.

AfEventExposureData:

description: AF Event Exposure data managed by a given NEF Instance

type: object

required:

- afEvents

properties:

afEvents:

type: array

items:

$ref: '#/components/schemas/AfEvent'

minItems: 1

afIds:

type: array

items:

type: string

minItems: 1

appIds:

type: array

items:

type: string

minItems: 1

UnTrustAfInfo:

description: Information of a untrusted AF Instance

type: object

required:

- afId

properties:

afId:

type: string

sNssaiInfoList:

type: array

items:

$ref: '#/components/schemas/SnssaiInfoItem'

minItems: 1

mappingInd:

type: boolean

default: false

SnssaiInfoItem:

description: >

Parameters supported by an NF for a given S-NSSAI Set of parameters supported by NF

for a given S-NSSAI

type: object

required:

- sNssai

- dnnInfoList

properties:

sNssai:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/ExtSnssai'

dnnInfoList:

type: array

items:

$ref: '#/components/schemas/DnnInfoItem'

minItems: 1

DnnInfoItem:

description: Set of parameters supported by NF for a given DNN

type: object

required:

- dnn

properties:

dnn:

anyOf:

- $ref: 'TS29571\_CommonData.yaml#/components/schemas/Dnn'

- $ref: 'TS29571\_CommonData.yaml#/components/schemas/WildcardDnn'

EasdfInfo:

description: Information of an EASDF NF Instance

type: object

properties:

sNssaiEasdfInfoList:

type: array

items:

$ref: '#/components/schemas/SnssaiEasdfInfoItem'

minItems: 1

easdfN6IpAddressList:

type: array

items:

$ref: 'TS28623\_ComDefs.yaml#/components/schemas/IpAddr'

minItems: 1

upfN6IpAddressList:

type: array

items:

$ref: 'TS28623\_ComDefs.yaml#/components/schemas/IpAddr'

minItems: 1

SnssaiEasdfInfoItem:

description: Set of parameters supported by EASDF for a given S-NSSAI

type: object

required:

- sNssai

- dnnEasdfInfoList

properties:

sNssai:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/ExtSnssai'

dnnEasdfInfoList:

type: array

items:

$ref: '#/components/schemas/DnnEasdfInfoItem'

minItems: 1

DnnEasdfInfoItem:

description: Set of parameters supported by EASDF for a given DNN

type: object

required:

- dnn

properties:

dnn:

anyOf:

- $ref: 'TS29571\_CommonData.yaml#/components/schemas/Dnn'

- $ref: 'TS29571\_CommonData.yaml#/components/schemas/WildcardDnn'

dnaiList:

type: array

items:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Dnai'

minItems: 1

NssaafInfo:

description: Information of a NSSAAF Instance

type: object

properties:

supiRanges:

type: array

items:

$ref: '#/components/schemas/SupiRange'

minItems: 1

internalGroupIdentifiersRanges:

type: array

items:

$ref: '#/components/schemas/InternalGroupIdRange'

minItems: 1

TrustAfInfo:

description: Information of a trusted AF Instance

type: object

properties:

sNssaiInfoList:

type: array

items:

$ref: '#/components/schemas/SnssaiInfoItem'

minItems: 1

afEvents:

type: array

items:

$ref: '#/components/schemas/AfEvent'

minItems: 1

appIds:

type: array

items:

type: string

minItems: 1

internalGroupId:

type: array

items:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/GroupId'

minItems: 1

mappingInd:

type: boolean

default: False

ExternalClientType:

description: Indicates types of External Clients.

anyOf:

- type: string

enum:

- EMERGENCY\_SERVICES

- VALUE\_ADDED\_SERVICES

- PLMN\_OPERATOR\_SERVICES

- LAWFUL\_INTERCEPT\_SERVICES

- PLMN\_OPERATOR\_BROADCAST\_SERVICES

- PLMN\_OPERATOR\_OM

- PLMN\_OPERATOR\_ANONYMOUS\_STATISTICS

- PLMN\_OPERATOR\_TARGET\_MS\_SERVICE\_SUPPORT

- type: string

SupportedGADShapes:

description: Indicates supported GAD shapes.

anyOf:

- type: string

enum:

- POINT

- POINT\_UNCERTAINTY\_CIRCLE

- POINT\_UNCERTAINTY\_ELLIPSE

- POLYGON

- POINT\_ALTITUDE

- POINT\_ALTITUDE\_UNCERTAINTY

- ELLIPSOID\_ARC

- LOCAL\_2D\_POINT\_UNCERTAINTY\_ELLIPSE

- LOCAL\_3D\_POINT\_UNCERTAINTY\_ELLIPSOID

- type: string

AnNodeType:

description: Access Network Node Type (gNB, ng-eNB...)

anyOf:

- type: string

enum:

- GNB

- NG\_ENB

- type: string

TrpMappingInfo:

type: object

properties:

satelliteId:

type: string

pattern: '^[0-9]{5}$'

trpIds:

type: array

items:

type: integer

minimum: 1

maximum: 65535

TrpInfo:

description: The mapping relationship between TRP IDs, gNB ID and Satellite ID.

type: object

properties:

gNBId:

type: integer

minimum: 0

maximum: 4294967295

trpMappingInfoList:

type: array

items:

$ref: '#/components/schemas/TrpMappingInfo'

minItems: 1

TrpInfoList:

type: array

items:

$ref: '#/components/schemas/TrpInfo'

LmfInfo:

description: Information of an LMF NF Instance

type: object

properties:

servingClientTypes:

type: array

items:

$ref: '#/components/schemas/ExternalClientType'

minItems: 1

lmfId:

type: string

servingAccessTypes:

type: array

items:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/AccessType'

minItems: 1

servingAnNodeTypes:

type: array

items:

$ref: '#/components/schemas/AnNodeType'

minItems: 1

servingRatTypes:

type: array

items:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/RatType'

minItems: 1

taiList:

type: array

items:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Tai'

minItems: 1

taiRangeList:

type: array

items:

$ref: '#/components/schemas/TaiRange'

minItems: 1

supportedGADShapes:

type: array

items:

$ref: '#/components/schemas/SupportedGADShapes'

minItems: 1

UdrInfo:

description: Information of an UDR NF Instance

type: object

properties:

groupId:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/NfGroupId'

supiRanges:

type: array

items:

$ref: '#/components/schemas/SupiRange'

minItems: 1

gpsiRanges:

type: array

items:

$ref: '#/components/schemas/IdentityRange'

minItems: 1

externalGroupIdentifiersRanges:

$ref: '#/components/schemas/IdentityRangeList'

supportedDataSets:

$ref: '#/components/schemas/SupportedDataSetList'

sharedDataIdRanges:

$ref: '#/components/schemas/SharedDataIdRangeList'

UdmInfo:

description: Information of an UDM NF Instance

type: object

properties:

groupId:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/NfGroupId'

supiRanges:

type: array

items:

$ref: '#/components/schemas/SupiRange'

minItems: 1

gpsiRanges:

type: array

items:

$ref: '#/components/schemas/IdentityRange'

minItems: 1

externalGroupIdentifiersRanges:

type: array

items:

$ref: '#/components/schemas/IdentityRange'

minItems: 1

routingIndicators:

type: array

items:

type: string

pattern: '^[0-9]{1,4}$'

minItems: 1

internalGroupIdentifiersRanges:

type: array

items:

$ref: '#/components/schemas/InternalGroupIdRange'

minItems: 1

suciInfos:

type: array

items:

$ref: '#/components/schemas/SuciInfo'

minItems: 1

PlmnRange:

description: Range of PLMN IDs

type: object

oneOf:

- required: [ start, end ]

- required: [ pattern ]

properties:

start:

type: string

pattern: '^[0-9]{3}[0-9]{2,3}$'

end:

type: string

pattern: '^[0-9]{3}[0-9]{2,3}$'

pattern:

type: string

SmsfInfo:

description: Specific Data for SMSF

type: object

properties:

roamingUeInd:

type: boolean

remotePlmnRangeList:

type: array

items:

$ref: '#/components/schemas/PlmnRange'

minItems: 1

DccfInfo:

description: Specific Data for DCCF

type: object

properties:

servingNfTypeList:

type: array

items:

$ref: 'TS28623\_GenericNrm.yaml#/components/schemas/NFType'

minItems: 1

servingNfSetIdList:

type: array

items:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/NfSetId'

minItems: 1

taiList:

$ref: '#/components/schemas/TaiList'

taiRangeList:

type: array

items:

$ref: '#/components/schemas/TaiRange'

minItems: 1

MfafInfo:

description: Information of a MFAF NF Instance

type: object

properties:

servingNfTypeList:

type: array

items:

$ref: 'TS28623\_GenericNrm.yaml#/components/schemas/NFType'

servingNfSetIdList:

type: array

items:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/NfSetId'

taiList:

$ref: '#/components/schemas/TaiList'

taiRangeList:

type: array

items:

$ref: '#/components/schemas/TaiRange'

ChfInfo:

description: Information of a CHF NF Instance

type: object

not:

required: [ primaryChfInstance, secondaryChfInstance ]

properties:

supiRangeList:

type: array

items:

$ref: '#/components/schemas/SupiRange'

minItems: 0

gpsiRangeList:

type: array

items:

$ref: '#/components/schemas/IdentityRange'

minItems: 0

plmnRangeList:

type: array

items:

$ref: '#/components/schemas/PlmnRange'

minItems: 0

groupId:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/NfGroupId'

primaryChfInstance:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/NfInstanceId'

secondaryChfInstance:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/NfInstanceId'

N2InterfaceAmfInfo:

description: AMF N2 interface information

type: object

anyOf:

- required: [ ipv4EndpointAddress ]

- required: [ ipv6EndpointAddress ]

properties:

ipv4EndpointAddress:

type: array

items:

$ref: 'TS28623\_ComDefs.yaml#/components/schemas/Ipv4Addr'

minItems: 1

ipv6EndpointAddress:

type: array

items:

$ref: 'TS28623\_ComDefs.yaml#/components/schemas/Ipv6Addr'

minItems: 1

amfName:

$ref: 'TS28623\_ComDefs.yaml#/components/schemas/Fqdn'

AmfInfo:

description: Information of an AMF NF Instance

type: object

required:

- amfSetId

- amfRegionId

- guamiList

properties:

amfSetId:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/AmfSetId'

amfRegionId:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/AmfRegionId'

guamiList:

type: array

items:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Guami'

minItems: 1

taiList:

type: array

items:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Tai'

minItems: 1

taiRangeList:

type: array

items:

$ref: '#/components/schemas/TaiRange'

minItems: 1

backupInfoAmfFailure:

type: array

items:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Guami'

minItems: 1

backupInfoAmfRemoval:

type: array

items:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Guami'

minItems: 1

n2InterfaceAmfInfo:

$ref: '#/components/schemas/N2InterfaceAmfInfo'

amfOnboardingCapability:

type: boolean

default: false

highLatencyCom:

type: boolean

SmfInfo:

description: Information of an SMF NF Instance

type: object

required:

- sNssaiSmfInfoList

properties:

sNssaiSmfInfoList:

type: array

items:

$ref: '#/components/schemas/SnssaiSmfInfoItem'

minItems: 1

taiList:

type: array

items:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Tai'

minItems: 1

taiRangeList:

type: array

items:

$ref: '#/components/schemas/TaiRange'

minItems: 1

pgwFqdn:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Fqdn'

pgwIpAddrList:

type: array

items:

$ref: 'TS28623\_ComDefs.yaml#/components/schemas/IpAddr'

minItems: 1

accessType:

type: array

items:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/AccessType'

minItems: 1

priority:

type: integer

minimum: 0

maximum: 65535

vsmfSupportInd:

type: boolean

pgwFqdnList:

type: array

items:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Fqdn'

minItems: 1

smfOnboardingCapability:

type: boolean

default: false

deprecated: true

ismfSupportInd:

type: boolean

smfUPRPCapability:

type: boolean

default: false

UpfInfo:

description: Information of an UPF NF Instance

type: object

required:

- sNssaiUpfInfoList

properties:

sNssaiUpfInfoList:

type: array

items:

$ref: '#/components/schemas/SnssaiUpfInfoItem'

minItems: 1

smfServingArea:

type: array

items:

type: string

minItems: 1

interfaceUpfInfoList:

type: array

items:

$ref: '#/components/schemas/InterfaceUpfInfoItem'

minItems: 1

iwkEpsInd:

type: boolean

default: false

sxaInd:

type: boolean

pduSessionTypes:

type: array

items:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/PduSessionType'

minItems: 1

atsssCapability:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/AtsssCapability'

ueIpAddrInd:

type: boolean

default: false

taiList:

type: array

items:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Tai'

minItems: 1

taiRangeList:

type: array

items:

$ref: '#/components/schemas/TaiRange'

minItems: 1

wAgfInfo:

# $ref: '#/components/schemas/WAgfInfo'

$ref: '#/components/schemas/IpInterface'

tngfInfo:

# $ref: '#/components/schemas/TngfInfo'

$ref: '#/components/schemas/IpInterface'

twifInfo:

# $ref: '#/components/schemas/TwifInfo'

$ref: '#/components/schemas/IpInterface'

priority:

type: integer

minimum: 0

maximum: 65535

redundantGtpu:

type: boolean

default: false

ipups:

type: boolean

default: false

dataForwarding:

type: boolean

default: false

supportedPfcpFeatures:

type: string

# upfEvents:

# type: array

# items:

# $ref: 'TS29564\_Nupf\_EventExposure.yaml#/components/schemas/EventType'

# minItems: 1

PcfInfo:

description: Information of a PCF NF Instance

type: object

properties:

groupId:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/NfGroupId'

dnnList:

type: array

items:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Dnn'

minItems: 1

supiRanges:

type: array

items:

$ref: '#/components/schemas/SupiRange'

minItems: 1

gpsiRanges:

type: array

items:

$ref: '#/components/schemas/IdentityRange'

minItems: 1

rxDiamHost:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/DiameterIdentity'

rxDiamRealm:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/DiameterIdentity'

v2xSupportInd:

type: boolean

default: false

proseSupportInd:

type: boolean

default: false

proseCapability:

$ref: '#/components/schemas/ProseCapability'

v2xCapability:

$ref: '#/components/schemas/V2xCapability'

a2xSupportInd:

type: boolean

default: false

a2xCapability:

$ref: '#/components/schemas/A2xCapability'

rangingSlPosSupportInd:

type: boolean

default: false

A2xCapability:

description: Information of the supported A2X Capability by the PCF

type: object

properties:

lteA2x:

type: boolean

default: false

nrA2x:

type: boolean

default: false

NefInfo:

description: Information of an NEF NF Instance

type: object

properties:

nefId:

# $ref: '#/components/schemas/NefId'

type: string

pfdData:

$ref: '#/components/schemas/PfdData'

afEeData:

$ref: '#/components/schemas/AfEventExposureData'

gpsiRanges:

type: array

items:

$ref: '#/components/schemas/IdentityRange'

minItems: 1

externalGroupIdentifiersRanges:

type: array

items:

$ref: '#/components/schemas/IdentityRange'

minItems: 1

servedFqdnList:

type: array

items:

type: string

minItems: 1

taiList:

$ref: '#/components/schemas/TaiList'

taiRangeList:

type: array

items:

$ref: '#/components/schemas/TaiRange'

minItems: 1

dnaiList:

type: array

items:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Dnai'

minItems: 1

unTrustAfInfoList:

type: array

items:

$ref: '#/components/schemas/UnTrustAfInfo'

minItems: 1

uasNfFunctionalityInd:

type: boolean

default: false

multiMemAfSessQosInd:

type: boolean

default: false

memberUESelAssistInd:

type: boolean

default: false

NrfInfo:

description: Information of an NRF NF Instance, used in hierarchical NRF deployments

type: object

properties:

servedUdrInfo:

description: A map (list of key-value pairs) where nfInstanceId serves as key

type: object

additionalProperties:

anyOf:

- $ref: '#/components/schemas/UdrInfo'

- $ref: 'TS29571\_CommonData.yaml#/components/schemas/EmptyObject'

minProperties: 1

servedUdrInfoList:

description: A map (list of key-value pairs) where nfInstanceId serves as key

type: object

additionalProperties:

description: A map (list of key-value pairs) where a valid JSON string serves as key

type: object

additionalProperties:

anyOf:

- $ref: '#/components/schemas/UdrInfo'

- $ref: 'TS29571\_CommonData.yaml#/components/schemas/EmptyObject'

minProperties: 1

minProperties: 1

servedUdmInfo:

description: A map (list of key-value pairs) where nfInstanceId serves as key

type: object

additionalProperties:

anyOf:

- $ref: '#/components/schemas/UdmInfo'

- $ref: 'TS29571\_CommonData.yaml#/components/schemas/EmptyObject'

minProperties: 1

servedUdmInfoList:

description: A map (list of key-value pairs) where nfInstanceId serves as key

type: object

additionalProperties:

description: A map (list of key-value pairs) where a valid JSON string serves as key

type: object

additionalProperties:

anyOf:

- $ref: '#/components/schemas/UdmInfo'

- $ref: 'TS29571\_CommonData.yaml#/components/schemas/EmptyObject'

minProperties: 1

minProperties: 1

servedAusfInfo:

description: A map (list of key-value pairs) where nfInstanceId serves as key

type: object

additionalProperties:

anyOf:

- $ref: '#/components/schemas/AusfInfo'

- $ref: 'TS29571\_CommonData.yaml#/components/schemas/EmptyObject'

minProperties: 1

servedAusfInfoList:

description: A map (list of key-value pairs) where nfInstanceId serves as key

type: object

additionalProperties:

description: A map (list of key-value pairs) where a valid JSON string serves as key

type: object

additionalProperties:

anyOf:

- $ref: '#/components/schemas/AusfInfo'

- $ref: 'TS29571\_CommonData.yaml#/components/schemas/EmptyObject'

minProperties: 1

minProperties: 1

servedAmfInfo:

description: A map (list of key-value pairs) where nfInstanceId serves as key

type: object

additionalProperties:

anyOf:

- $ref: '#/components/schemas/AmfInfo'

- $ref: 'TS29571\_CommonData.yaml#/components/schemas/EmptyObject'

minProperties: 1

servedAmfInfoList:

description: A map (list of key-value pairs) where nfInstanceId serves as key

type: object

additionalProperties:

description: A map (list of key-value pairs) where a valid JSON string serves as key

type: object

additionalProperties:

anyOf:

- $ref: '#/components/schemas/AmfInfo'

- $ref: 'TS29571\_CommonData.yaml#/components/schemas/EmptyObject'

minProperties: 1

minProperties: 1

servedSmfInfo:

description: A map (list of key-value pairs) where nfInstanceId serves as key

type: object

additionalProperties:

anyOf:

- $ref: '#/components/schemas/SmfInfo'

- $ref: 'TS29571\_CommonData.yaml#/components/schemas/EmptyObject'

minProperties: 1

servedSmfInfoList:

description: A map (list of key-value pairs) where nfInstanceId serves as key

type: object

additionalProperties:

description: A map (list of key-value pairs) where a valid JSON string serves as key

type: object

additionalProperties:

anyOf:

- $ref: '#/components/schemas/SmfInfo'

- $ref: 'TS29571\_CommonData.yaml#/components/schemas/EmptyObject'

minProperties: 1

minProperties: 1

servedUpfInfo:

description: A map (list of key-value pairs) where nfInstanceId serves as key

type: object

additionalProperties:

anyOf:

- $ref: '#/components/schemas/UpfInfo'

- $ref: 'TS29571\_CommonData.yaml#/components/schemas/EmptyObject'

minProperties: 1

servedUpfInfoList:

description: A map (list of key-value pairs) where nfInstanceId serves as key

type: object

additionalProperties:

description: A map (list of key-value pairs) where a valid JSON string serves as key

type: object

additionalProperties:

anyOf:

- $ref: '#/components/schemas/UpfInfo'

- $ref: 'TS29571\_CommonData.yaml#/components/schemas/EmptyObject'

minProperties: 1

minProperties: 1

servedPcfInfo:

description: A map (list of key-value pairs) where nfInstanceId serves as key

type: object

additionalProperties:

anyOf:

- $ref: '#/components/schemas/PcfInfo'

- $ref: 'TS29571\_CommonData.yaml#/components/schemas/EmptyObject'

minProperties: 1

servedPcfInfoList:

description: A map (list of key-value pairs) where nfInstanceId serves as key

type: object

additionalProperties:

description: A map (list of key-value pairs) where a valid JSON string serves as key

type: object

additionalProperties:

anyOf:

- $ref: '#/components/schemas/PcfInfo'

- $ref: 'TS29571\_CommonData.yaml#/components/schemas/EmptyObject'

minProperties: 1

minProperties: 1

servedBsfInfo:

description: A map (list of key-value pairs) where nfInstanceId serves as key

type: object

additionalProperties:

anyOf:

- $ref: '#/components/schemas/BsfInfo'

- $ref: 'TS29571\_CommonData.yaml#/components/schemas/EmptyObject'

minProperties: 1

servedBsfInfoList:

description: A map (list of key-value pairs) where nfInstanceId serves as key

type: object

additionalProperties:

description: A map (list of key-value pairs) where a valid JSON string serves as key

type: object

additionalProperties:

anyOf:

- $ref: '#/components/schemas/BsfInfo'

- $ref: 'TS29571\_CommonData.yaml#/components/schemas/EmptyObject'

minProperties: 1

minProperties: 1

servedChfInfo:

description: A map (list of key-value pairs) where nfInstanceId serves as key

type: object

additionalProperties:

anyOf:

- $ref: '#/components/schemas/ChfInfo'

- $ref: 'TS29571\_CommonData.yaml#/components/schemas/EmptyObject'

minProperties: 1

servedChfInfoList:

description: A map (list of key-value pairs) where nfInstanceId serves as key

type: object

additionalProperties:

description: A map (list of key-value pairs) where a valid JSON string serves as key

type: object

additionalProperties:

anyOf:

- $ref: '#/components/schemas/ChfInfo'

- $ref: 'TS29571\_CommonData.yaml#/components/schemas/EmptyObject'

minProperties: 1

minProperties: 1

servedNefInfo:

description: A map (list of key-value pairs) where nfInstanceId serves as key

type: object

additionalProperties:

anyOf:

- $ref: '#/components/schemas/NefInfo'

- $ref: 'TS29571\_CommonData.yaml#/components/schemas/EmptyObject'

minProperties: 1

servedNwdafInfo:

description: A map (list of key-value pairs) where nfInstanceId serves as key

type: object

additionalProperties:

anyOf:

- $ref: '#/components/schemas/NwdafInfo'

- $ref: 'TS29571\_CommonData.yaml#/components/schemas/EmptyObject'

minProperties: 1

servedNwdafInfoList:

type: object

description: A map (list of key-value pairs) where NF Instance Id serves as key

additionalProperties:

type: object

description: A map (list of key-value pairs) where a valid JSON string serves as key

additionalProperties:

$ref: '#/components/schemas/NwdafInfo'

minProperties: 1

minProperties: 1

servedPcscfInfoList:

description: A map (list of key-value pairs) where nfInstanceId serves as key

type: object

additionalProperties:

description: A map (list of key-value pairs) where a valid JSON string serves as key

type: object

additionalProperties:

anyOf:

- $ref: '#/components/schemas/PcscfInfo'

- $ref: 'TS29571\_CommonData.yaml#/components/schemas/EmptyObject'

minProperties: 1

minProperties: 1

servedGmlcInfo:

description: A map (list of key-value pairs) where nfInstanceId serves as key

type: object

additionalProperties:

anyOf:

- $ref: '#/components/schemas/GmlcInfo'

- $ref: 'TS29571\_CommonData.yaml#/components/schemas/EmptyObject'

minProperties: 1

servedLmfInfo:

description: A map (list of key-value pairs) where nfInstanceId serves as key

type: object

additionalProperties:

anyOf:

- $ref: '#/components/schemas/LmfInfo'

- $ref: 'TS29571\_CommonData.yaml#/components/schemas/EmptyObject'

minProperties: 1

servedNfInfo:

description: A map (list of key-value pairs) where nfInstanceId serves as key

type: object

additionalProperties:

$ref: '#/components/schemas/NfInfo'

minProperties: 1

servedHssInfoList:

description: A map (list of key-value pairs) where nfInstanceId serves as key

type: object

additionalProperties:

description: A map (list of key-value pairs) where a valid JSON string serves as key

type: object

additionalProperties:

anyOf:

- $ref: '#/components/schemas/HssInfo'

- $ref: 'TS29571\_CommonData.yaml#/components/schemas/EmptyObject'

minProperties: 1

minProperties: 1

servedUdsfInfo:

description: A map (list of key-value pairs) where nfInstanceId serves as key

type: object

additionalProperties:

anyOf:

- $ref: '#/components/schemas/UdsfInfo'

- $ref: 'TS29571\_CommonData.yaml#/components/schemas/EmptyObject'

minProperties: 1

servedUdsfInfoList:

description: A map (list of key-value pairs) where nfInstanceId serves as key

type: object

additionalProperties:

description: A map (list of key-value pairs) where a valid JSON string serves as key

type: object

additionalProperties:

anyOf:

- $ref: '#/components/schemas/UdsfInfo'

- $ref: 'TS29571\_CommonData.yaml#/components/schemas/EmptyObject'

minProperties: 1

minProperties: 1

servedScpInfoList:

description: A map (list of key-value pairs) where nfInstanceId serves as key

type: object

additionalProperties:

anyOf:

- $ref: '#/components/schemas/ScpInfo'

- $ref: 'TS29571\_CommonData.yaml#/components/schemas/EmptyObject'

minProperties: 1

servedSeppInfoList:

description: A map (list of key-value pairs) where nfInstanceId serves as key

type: object

additionalProperties:

anyOf:

- $ref: '#/components/schemas/SeppInfo'

- $ref: 'TS29571\_CommonData.yaml#/components/schemas/EmptyObject'

minProperties: 1

servedAanfInfoList:

description: A map (list of key-value pairs) where NF Instance Id serves as key

type: object

additionalProperties:

description: A map (list of key-value pairs) where a valid JSON string serves as key

type: object

additionalProperties:

anyOf:

- $ref: '#/components/schemas/AanfInfo'

- $ref: 'TS29571\_CommonData.yaml#/components/schemas/EmptyObject'

minProperties: 1

served5gDdnmfInfo:

type: object

additionalProperties:

$ref: '#/components/schemas/5GDdnmfInfo'

minProperties: 1

servedMfafInfoList:

type: object

description: A map (list of key-value pairs) where NF Instance Id serves as key

additionalProperties:

$ref: '#/components/schemas/MfafInfo'

minProperties: 1

servedEasdfInfoList:

type: object

description: A map (list of key-value pairs) where NF Instance Id serves as key

additionalProperties:

type: object

description: A map (list of key-value pairs) where a valid JSON string serves as key

additionalProperties:

$ref: '#/components/schemas/EasdfInfo'

minProperties: 1

servedDccfInfoList:

type: object

description: A map (list of key-value pairs) where NF Instance Id serves as key

additionalProperties:

$ref: '#/components/schemas/DccfInfo'

minProperties: 1

servedMbSmfInfoList:

description: A map (list of key-value pairs) where nfInstanceId serves as key

type: object

additionalProperties:

description: A map (list of key-value pairs) where a valid JSON string serves as key

type: object

additionalProperties:

anyOf:

- $ref: '#/components/schemas/MbSmfInfo'

- $ref: 'TS29571\_CommonData.yaml#/components/schemas/EmptyObject'

minProperties: 1

minProperties: 1

servedTsctsfInfoList:

type: object

description: A map (list of key-value pairs) where NF Instance Id serves as key

additionalProperties:

type: object

description: A map (list of key-value pairs) where a valid JSON string serves as key

additionalProperties:

$ref: '#/components/schemas/TsctsfInfo'

minProperties: 1

minProperties: 1

servedMbUpfInfoList:

type: object

description: A map (list of key-value pairs) where NF Instance Id serves as key

additionalProperties:

type: object

description: A map (list of key-value pairs) where a valid JSON string serves as key

additionalProperties:

$ref: '#/components/schemas/MbUpfInfo'

minProperties: 1

minProperties: 1

servedTrustAfInfo:

type: object

description: A map (list of key-value pairs) where NF Instance Id serves as key

additionalProperties:

$ref: '#/components/schemas/TrustAfInfo'

minProperties: 1

servedNssaafInfo:

type: object

description: A map (list of key-value pairs) where NF Instance Id serves as key

additionalProperties:

$ref: '#/components/schemas/NssaafInfo'

minProperties: 1

SatelliteBackhaulInfo:

description: defines the list of satellite backhaul information

type: object

properties:

globalRanNodeID:

$ref: '#/components/schemas/GlobalRanNodeID'

SatelliteBackhaulCategory:

anyOf:

- type: string

enum:

- GEO

- MEO

- LEO

- OTHER\_SAT

- DYNAMIC\_GEO

- DYNAMIC\_MEO

- DYNAMIC\_LEO

- DYNAMIC\_OTHER\_SAT

- NON\_SATELLITE

- type: string

geoSatelliteId:

type: string

pattern: '^[0-9]{5}$'

GlobalRanNodeID:

description: globally identification of an NG-RAN node

type: object

oneOf:

- required: [ pLmnId, n3IwfId]

- required: [ plmnId, gNbId]

- required: [ pLmnId, ngeNbId]

- required: [ plmnId, wagfId]

- required: [ pLmnId, tngfId]

- required: [ plmnId, twifId]

properties:

pLmnId:

$ref: 'TS28623\_ComDefs.yaml#/components/schemas/PlmnId'

n3IwfId:

type: string

pattern: '^[A-Fa-f0-9]+$'

gNbId:

type: integer

minimum: 0

maximum: 4294967295

ngeNbId:

type: string

pattern: '^(MacroNGeNB-[A-Fa-f0-9]{5}|LMacroNGeNB-[A-Fa-f0-9]{6}|SMacroNGeNB-[A-Fa-f0-9]{5})$'

wagfId:

type: string

pattern: '^[A-Fa-f0-9]+$'

tngfId:

type: string

pattern: '^[A-Fa-f0-9]+$'

twifId:

type: string

NTNPLMNRestrictionsInfo:

description: restrictions per PLMN that relates to non-terrestrial network access

type: object

properties:

pLMNId:

$ref: 'TS28623\_ComDefs.yaml#/components/schemas/PlmnId'

blockedLocationInfoList:

type: array

items:

$ref: '#/components/schemas/BlockedLocationInfoList'

minItems: 1

BlockedLocationInfoList:

description: location for which the PLMN access restrictions are to be applied in case of NTN

type: object

properties:

blockedLocation:

$ref: 'TS28623\_ComDefs.yaml#/components/schemas/PlmnId'

blockedDur:

$ref: '#/components/schemas/TimeDuration'

blockedSlice:

type: string

TimeDuration:

description: location for which the PLMN access restrictions are to be applied in case of NTN

type: object

properties:

blockedDurStartTime:

$ref: 'TS28623\_ComDefs.yaml#/components/schemas/DateTime'

blockedDurEndTime:

$ref: 'TS28623\_ComDefs.yaml#/components/schemas/DateTime'

5GDdnmfInfo:

description: Information of an 5G DDNMF NF Instance

type: object

required:

- plmnId

properties:

plmnId:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/PlmnId'

ImsiRange:

description: >

A range of IMSIs (subscriber identities), either based on a numeric range,

or based on regular-expression matching

type: object

oneOf:

- required: [ start, end ]

- required: [ pattern ]

properties:

start:

type: string

pattern: '^[0-9]+$'

end:

type: string

pattern: '^[0-9]+$'

pattern:

type: string

NetworkNodeDiameterAddress:

description: >

This data type is a part of smsfDiameterAddress and it should be present

whenever smsf supports Diameter protocol.

type: object

required:

- name

- realm

properties:

name:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/DiameterIdentity'

realm:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/DiameterIdentity'

HssInfo:

description: Information of an HSS NF Instance

type: object

properties:

groupId:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/NfGroupId'

imsiRanges:

type: array

items:

$ref: '#/components/schemas/ImsiRange'

minItems: 1

imsPrivateIdentityRanges:

type: array

items:

$ref: '#/components/schemas/IdentityRange'

minItems: 1

imsPublicIdentityRanges:

type: array

items:

$ref: '#/components/schemas/IdentityRange'

minItems: 1

msisdnRanges:

type: array

items:

$ref: '#/components/schemas/IdentityRange'

minItems: 1

externalGroupIdentifiersRanges:

type: array

items:

$ref: '#/components/schemas/IdentityRange'

minItems: 1

hssDiameterAddress:

$ref: '#/components/schemas/NetworkNodeDiameterAddress'

additionalDiamAddresses:

type: array

items:

$ref: '#/components/schemas/NetworkNodeDiameterAddress'

minItems: 1

GmlcInfo:

description: Information of a GMLC NF Instance

type: object

properties:

servingClientTypes:

type: array

items:

$ref: '#/components/schemas/ExternalClientType'

gmlcNumbers:

type: array

items:

type: string

pattern: '^[0-9]{5,15}$'

SnssaiTsctsfInfoItem:

description: Set of parameters supported by TSCTSF for a given S-NSSAI

type: object

required:

- sNssai

- dnnInfoList

properties:

sNssai:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/ExtSnssai'

dnnInfoList:

type: array

items:

$ref: '#/components/schemas/DnnTsctsfInfoItem'

minItems: 1

DnnTsctsfInfoItem:

description: Parameters supported by an TSCTSF for a given DNN

type: object

required:

- dnn

properties:

dnn:

anyOf:

- $ref: 'TS29571\_CommonData.yaml#/components/schemas/Dnn'

- $ref: 'TS29571\_CommonData.yaml#/components/schemas/WildcardDnn'

TsctsfInfo:

description: Information of a TSCTSF NF Instance

type: object

properties:

sNssaiInfoList:

description: A map (list of key-value pairs) where a valid JSON string serves as key

additionalProperties:

$ref: '#/components/schemas/SnssaiTsctsfInfoItem'

minProperties: 0

externalGroupIdentifiersRanges:

type: array

items:

$ref: '#/components/schemas/IdentityRange'

supiRanges:

type: array

items:

$ref: '#/components/schemas/SupiRange'

gpsiRanges:

type: array

items:

$ref: '#/components/schemas/IdentityRange'

internalGroupIdentifiersRanges:

type: array

items:

$ref: '#/components/schemas/InternalGroupIdRange'

BsfInfo:

description: Information of a BSF NF Instance

type: object

properties:

dnnList:

type: array

items:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Dnn'

minItems: 0

ipDomainList:

type: array

items:

type: string

minItems: 0

ipv4AddressRanges:

type: array

items:

$ref: '#/components/schemas/Ipv4AddressRange'

minItems: 0

ipv6PrefixRanges:

type: array

items:

$ref: '#/components/schemas/Ipv6PrefixRange'

minItems: 0

rxDiamHost:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/DiameterIdentity'

rxDiamRealm:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/DiameterIdentity'

groupId:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/NfGroupId'

supiRanges:

type: array

items:

$ref: '#/components/schemas/SupiRange'

minItems: 0

gpsiRanges:

type: array

items:

$ref: '#/components/schemas/IdentityRange'

minItems: 0

MbSmfInfo:

description: Information of an MB-SMF NF Instance

type: object

properties:

sNssaiInfoList:

description: A map (list of key-value pairs) where a valid JSON string serves as key

additionalProperties:

$ref: '#/components/schemas/SnssaiMbSmfInfoItem'

minProperties: 1

tmgiRangeList:

description: A map (list of key-value pairs) where a valid JSON string serves as key

additionalProperties:

$ref: '#/components/schemas/TmgiRange'

minProperties: 1

taiList:

type: array

items:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Tai'

minItems: 1

taiRangeList:

type: array

items:

$ref: '#/components/schemas/TaiRange'

minItems: 1

mbsSessionList:

description: A map (list of key-value pairs) where a valid JSON string serves as key

additionalProperties:

$ref: '#/components/schemas/MbsSession'

minProperties: 1

TmgiRange:

description: Range of TMGIs

type: object

required:

- mbsServiceIdStart

- mbsServiceIdEnd

- plmnId

properties:

mbsServiceIdStart:

type: string

pattern: '^[A-Fa-f0-9]{6}$'

mbsServiceIdEnd:

type: string

pattern: '^[A-Fa-f0-9]{6}$'

plmnId:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/PlmnId'

nid:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Nid'

MbsSession:

description: MBS Session currently served by an MB-SMF

type: object

required:

- mbsSessionId

properties:

mbsSessionId:

$ref: '#/components/schemas/MbsSessionId'

mbsAreaSessions:

description: A map (list of key-value pairs) where the key identifies an areaSessionId

additionalProperties:

$ref: '#/components/schemas/MbsServiceAreaInfo'

minProperties: 1

MbsServiceAreaInfo:

description: MBS Service Area Information for location dependent MBS session

type: object

properties:

areaSessionId:

type: integer

minimum: 0

maximum: 65535

mbsServiceArea:

$ref: '#/components/schemas/MbsServiceArea'

required:

- areaSessionId

- mbsServiceArea

MbsSessionId:

description: MBS Session Identifier

type: object

properties:

tmgi:

$ref: '#/components/schemas/Tmgi'

ssm:

$ref: '#/components/schemas/Ssm'

nid:

$ref: '#/components/schemas/Nid'

anyOf:

- required: [ tmgi ]

- required: [ ssm ]

Tmgi:

description: Temporary Mobile Group Identity

type: object

properties:

mbsServiceId:

type: string

pattern: '^[A-Fa-f0-9]{6}$'

description: MBS Service ID

plmnId:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/PlmnId'

required:

- mbsServiceId

- plmnId

Ssm:

description: Source specific IP multicast address

type: object

properties:

sourceIpAddr:

$ref: 'TS28623\_ComDefs.yaml#/components/schemas/IpAddr'

destIpAddr:

$ref: 'TS28623\_ComDefs.yaml#/components/schemas/IpAddr'

required:

- sourceIpAddr

- destIpAddr

MbsServiceArea:

description: MBS Service Area

type: object

properties:

ncgiList:

type: array

items:

$ref: '#/components/schemas/NcgiTai'

minItems: 1

description: List of NR cell Ids

taiList:

type: array

items:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Tai'

minItems: 1

description: List of tracking area Ids

anyOf:

- required: [ ncgiList ]

- required: [ taiList ]

NcgiTai:

description: List of NR cell ids, with their pertaining TAIs

type: object

properties:

tai:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Tai'

cellList:

type: array

items:

$ref: '#/components/schemas/Ncgi'

minItems: 1

description: List of List of NR cell ids

required:

- tai

- cellList

Ncgi:

description: Contains the NCGI (NR Cell Global Identity), as described in 3GPP 23.003

type: object

properties:

plmnId:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/PlmnId'

nrCellId:

type: string

pattern: '^[A-Fa-f0-9]{9}$'

# $ref: 'TS29571\_CommonData.yaml#/components/schemas/NrCellId'

nid:

$ref: '#/components/schemas/Nid'

required:

- plmnId

- nrCellId

SnssaiMbSmfInfoItem:

description: Parameters supported by an MB-SMF for a given S-NSSAI

type: object

required:

- sNssai

- dnnInfoList

properties:

sNssai:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/ExtSnssai'

dnnInfoList:

type: array

items:

$ref: '#/components/schemas/DnnMbSmfInfoItem'

minItems: 1

DnnMbSmfInfoItem:

description: Parameters supported by an MB-SMF for a given DNN

type: object

required:

- dnn

properties:

dnn:

anyOf:

- $ref: 'TS29571\_CommonData.yaml#/components/schemas/Dnn'

- $ref: 'TS29571\_CommonData.yaml#/components/schemas/WildcardDnn'

AanfInfo:

description: Represents the information relative to an AAnF NF Instance.

type: object

properties:

routingIndicators:

type: array

items:

type: string

pattern: '^[0-9]{1,4}$'

MbUpfInfo:

description: Information of an MB-UPF NF Instance

type: object

required:

- sNssaiMbUpfInfoList

properties:

sNssaiMbUpfInfoList:

type: array

items:

$ref: '#/components/schemas/SnssaiUpfInfoItem'

minItems: 1

mbSmfServingArea:

type: array

items:

type: string

minItems: 1

interfaceMbUpfInfoList:

type: array

items:

$ref: '#/components/schemas/InterfaceUpfInfoItem'

minItems: 1

taiList:

type: array

items:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Tai'

minItems: 1

taiRangeList:

type: array

items:

$ref: '#/components/schemas/TaiRange'

minItems: 1

priority:

type: integer

minimum: 0

maximum: 65535

supportedPfcpFeatures:

type: string

SnssaiUpfInfoItem:

description: Set of parameters supported by UPF for a given S-NSSAI

type: object

required:

- sNssai

- dnnUpfInfoList

properties:

sNssai:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/ExtSnssai'

dnnUpfInfoList:

type: array

items:

$ref: '#/components/schemas/DnnUpfInfoItem'

minItems: 1

redundantTransport:

type: boolean

default: false

IpIndex:

description: Represents the IP Index to be sent from UDM to the SMF (its value can be either an integer or a string)

anyOf:

- type: integer

- type: string

DnnUpfInfoItem:

description: Set of parameters supported by UPF for a given DNN

type: object

required:

- dnn

properties:

dnn:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Dnn'

dnaiList:

type: array

items:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Dnai'

minItems: 1

pduSessionTypes:

type: array

items:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/PduSessionType'

minItems: 1

ipv4AddressRanges:

type: array

items:

$ref: '#/components/schemas/Ipv4AddressRange'

minItems: 1

ipv6PrefixRanges:

type: array

items:

$ref: '#/components/schemas/Ipv6PrefixRange'

minItems: 1

natedIpv4AddressRanges:

type: array

items:

$ref: '#/components/schemas/Ipv4AddressRange'

minItems: 1

natedIpv6PrefixRanges:

type: array

items:

$ref: '#/components/schemas/Ipv6PrefixRange'

minItems: 1

ipv4IndexList:

type: array

items:

$ref: '#/components/schemas/IpIndex'

minItems: 1

ipv6IndexList:

type: array

items:

$ref: '#/components/schemas/IpIndex'

minItems: 1

networkInstance:

description: >

The N6 Network Instance associated with the S-NSSAI and DNN.

type: string

dnaiNwInstanceList:

description: >

Map of network instance per DNAI for the DNN, where the key of the map is the DNAI.

When present, the value of each entry of the map shall contain a N6 network instance

that is configured for the DNAI indicated by the key.

type: object

additionalProperties:

type: string

minProperties: 1

not:

required: [ networkInstance, dnaiNwInstanceList ]

MnpfInfo:

description: Information of an MNPF Instance

type: object

properties:

msisdnRanges:

type: array

items:

$ref: '#/components/schemas/IdentityRange'

minItems: 1

required:

- msisdnRanges

SliceExpiryInfo :

description: Slice validity

type: object

properties:

pLMNInfo:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/PlmnInfo'

expiryTime:

$ref: 'TS28623\_ComDefs.yaml#/components/schemas/DateTime'

PcscfInfo:

description: Information of a P-CSCF NF Instance

type: object

properties:

accessType:

type: array

items:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/AccessType'

minItems: 1

dnnList:

type: array

items:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Dnn'

minItems: 1

gmFqdn:

$ref: 'TS28623\_ComDefs.yaml#/components/schemas/Fqdn'

gmIpv4Addresses:

type: array

items:

$ref: 'TS28623\_ComDefs.yaml#/components/schemas/Ipv4Addr'

minItems: 1

gmIpv6Addresses:

type: array

items:

$ref: 'TS28623\_ComDefs.yaml#/components/schemas/Ipv6Addr'

minItems: 1

mwFqdn:

$ref: 'TS28623\_ComDefs.yaml#/components/schemas/Fqdn'

mwIpv4Addresses:

type: array

items:

$ref: 'TS28623\_ComDefs.yaml#/components/schemas/Ipv4Addr'

minItems: 1

mwIpv6Addresses:

type: array

items:

$ref: 'TS28623\_ComDefs.yaml#/components/schemas/Ipv6Addr'

minItems: 1

servedIpv4AddressRanges:

type: array

items:

$ref: '#/components/schemas/Ipv4AddressRange'

minItems: 1

servedIpv6PrefixRanges:

type: array

items:

$ref: '#/components/schemas/Ipv6PrefixRange'

minItems: 1

NfInfo:

description: Information of a generic NF Instance

type: object

properties:

nfType:

$ref: 'TS28623\_GenericNrm.yaml#/components/schemas/NFType'

#-------- Definition of types for name-containments ------

SubNetwork-ncO-5GcNrm:

type: object

properties:

ExternalAmfFunction:

$ref: '#/components/schemas/ExternalAmfFunction-Multiple'

ExternalNrfFunction:

$ref: '#/components/schemas/ExternalNrfFunction-Multiple'

ExternalNssfFunction:

$ref: '#/components/schemas/ExternalNssfFunction-Multiple'

AmfSet:

$ref: '#/components/schemas/AmfSet-Multiple'

AmfRegion:

$ref: '#/components/schemas/AmfRegion-Multiple'

Configurable5QISet:

$ref: '#/components/schemas/Configurable5QISet-Multiple'

Dynamic5QISet:

$ref: '#/components/schemas/Dynamic5QISet-Multiple'

EcmConnectionInfo:

$ref: '#/components/schemas/EcmConnectionInfo-Multiple'

ManagedElement-ncO-5GcNrm:

type: object

properties:

AmfFunction:

$ref: '#/components/schemas/AmfFunction-Multiple'

SmfFunction:

$ref: '#/components/schemas/SmfFunction-Multiple'

UpfFunction:

$ref: '#/components/schemas/UpfFunction-Multiple'

N3iwfFunction:

$ref: '#/components/schemas/N3iwfFunction-Multiple'

PcfFunction:

$ref: '#/components/schemas/PcfFunction-Multiple'

AusfFunction:

$ref: '#/components/schemas/AusfFunction-Multiple'

UdmFunction:

$ref: '#/components/schemas/UdmFunction-Multiple'

UdrFunction:

$ref: '#/components/schemas/UdrFunction-Multiple'

UdsfFunction:

$ref: '#/components/schemas/UdsfFunction-Multiple'

NrfFunction:

$ref: '#/components/schemas/NrfFunction-Multiple'

NssfFunction:

$ref: '#/components/schemas/NssfFunction-Multiple'

SmsfFunction:

$ref: '#/components/schemas/SmsfFunction-Multiple'

LmfFunction:

$ref: '#/components/schemas/LmfFunction-Multiple'

NgeirFunction:

$ref: '#/components/schemas/NgeirFunction-Multiple'

SeppFunction:

$ref: '#/components/schemas/SeppFunction-Multiple'

NwdafFunction:

$ref: '#/components/schemas/NwdafFunction-Multiple'

ScpFunction:

$ref: '#/components/schemas/ScpFunction-Multiple'

NefFunction:

$ref: '#/components/schemas/NefFunction-Multiple'

Configurable5QISet:

$ref: '#/components/schemas/Configurable5QISet-Multiple'

Dynamic5QISet:

$ref: '#/components/schemas/Dynamic5QISet-Multiple'

EcmConnectionInfo:

$ref: '#/components/schemas/EcmConnectionInfo-Multiple'

EASDFFunction:

$ref: '#/components/schemas/EASDFFunction-Multiple'

NSSAAFFunction:

$ref: '#/components/schemas/NssaafFunction-Multiple'

AFFunction:

$ref: '#/components/schemas/AfFunction-Multiple'

DCCFFunction:

$ref: '#/components/schemas/DccfFunction-Multiple'

ChfFunction:

$ref: '#/components/schemas/ChfFunction-Multiple'

MFAFFunction:

$ref: '#/components/schemas/MfafFunction-Multiple'

GMLCFunction:

$ref: '#/components/schemas/GmlcFunction-Multiple'

TSCTSFFunction:

$ref: '#/components/schemas/TsctsfFunction-Multiple'

AANFFunction:

$ref: '#/components/schemas/AanfFunction-Multiple'

BSFFunction:

$ref: '#/components/schemas/BsfFunction-Multiple'

MBSMFFunction:

$ref: '#/components/schemas/MbSmfFunction-Multiple'

MBUPFFunction:

$ref: '#/components/schemas/MbUpfFunction-Multiple'

MNPFFunction:

$ref: '#/components/schemas/MnpfFunction-Multiple'

#-------- Definition of concrete IOCs --------------------------------------------

AmfFunction-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/ManagedFunction-Attr'

- type: object

properties:

pLMNInfoList:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/PlmnInfoList'

amfIdentifier:

$ref: '#/components/schemas/AmfIdentifier'

sBIFqdn:

type: string

interPlmnFQDN:

type: string

weightFactor:

$ref: '#/components/schemas/WeightFactor'

cNSIIdList:

$ref: '#/components/schemas/CNSIIdList'

amfSetRef:

$ref: 'TS28623\_ComDefs.yaml#/components/schemas/Dn'

managedNFProfile:

$ref: '#/components/schemas/ManagedNFProfile'

commModelList:

$ref: '#/components/schemas/CommModelList'

nTNPLMNInfoList:

$ref: '#/components/schemas/NTNPLMNRestrictionsInfo'

amfInfo:

$ref: '#/components/schemas/AmfInfo'

sliceExpiryInfo:

$ref: '#/components/schemas/SliceExpiryInfo'

SatelliteBackhaulInfoList:

$ref: '#/components/schemas/SatelliteBackhaulInfo'

mappedCellIdInfoList:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/MappedCellIdInfoList'

mdtUserConsentReqList:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/MdtUserConsentReqList'

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/ManagedFunction-ncO'

- type: object

properties:

EP\_N2:

$ref: '#/components/schemas/EP\_N2-Multiple'

EP\_N8:

$ref: '#/components/schemas/EP\_N8-Multiple'

EP\_N11:

$ref: '#/components/schemas/EP\_N11-Multiple'

EP\_N12:

$ref: '#/components/schemas/EP\_N12-Multiple'

EP\_N14:

$ref: '#/components/schemas/EP\_N14-Multiple'

EP\_N15:

$ref: '#/components/schemas/EP\_N15-Multiple'

EP\_N17:

$ref: '#/components/schemas/EP\_N17-Multiple'

EP\_N20:

$ref: '#/components/schemas/EP\_N20-Multiple'

EP\_N22:

$ref: '#/components/schemas/EP\_N22-Multiple'

EP\_N26:

$ref: '#/components/schemas/EP\_N26-Multiple'

EP\_NLS:

$ref: '#/components/schemas/EP\_NLS-Multiple'

EP\_NL2:

$ref: '#/components/schemas/EP\_NL2-Multiple'

EP\_N58:

$ref: '#/components/schemas/EP\_N58-Multiple'

EP\_N41:

$ref: '#/components/schemas/EP\_N41-Multiple'

EP\_N42:

$ref: '#/components/schemas/EP\_N42-Multiple'

EP\_N89:

$ref: '#/components/schemas/EP\_N89-Multiple'

EP\_N11mb:

$ref: '#/components/schemas/EP\_N11mb-Multiple'

AmfSet-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/ManagedFunction-Attr'

- type: object

properties:

plmnIdList:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/PlmnIdList'

nRTACList:

$ref: '#/components/schemas/TACList'

amfSetId:

$ref: '#/components/schemas/AmfSetId'

snssaiList:

$ref: '#/components/schemas/SnssaiList'

aMFRegionRef:

$ref: 'TS28623\_ComDefs.yaml#/components/schemas/Dn'

aMFSetMemberList:

$ref: 'TS28623\_ComDefs.yaml#/components/schemas/DnList'

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/ManagedFunction-ncO'

AmfRegion-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/ManagedFunction-Attr'

- type: object

properties:

plmnIdList:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/PlmnIdList'

nRTACList:

$ref: '#/components/schemas/TACList'

amfRegionId:

$ref: '#/components/schemas/AmfRegionId'

snssaiList:

$ref: '#/components/schemas/SnssaiList'

aMFSetListRef:

$ref: 'TS28623\_ComDefs.yaml#/components/schemas/DnList'

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/ManagedFunction-ncO'

SmfFunction-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/ManagedFunction-Attr'

- type: object

properties:

pLMNInfoList:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/PlmnInfoList'

nRTACList:

$ref: '#/components/schemas/TACList'

sBIFqdn:

type: string

cNSIIdList:

$ref: '#/components/schemas/CNSIIdList'

managedNFProfile:

$ref: '#/components/schemas/ManagedNFProfile'

commModelList:

$ref: '#/components/schemas/CommModelList'

SmfInfo:

$ref: '#/components/schemas/SmfInfo'

configurable5QISetRef:

$ref: 'TS28623\_ComDefs.yaml#/components/schemas/Dn'

dynamic5QISetRef:

$ref: 'TS28623\_ComDefs.yaml#/components/schemas/Dn'

dnaiSatelliteMappingList:

type: array

items:

$ref: '#/components/schemas/dnaiSatelliteMapping'

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/ManagedFunction-ncO'

- type: object

properties:

EP\_N4:

$ref: '#/components/schemas/EP\_N4-Multiple'

EP\_N7:

$ref: '#/components/schemas/EP\_N7-Multiple'

EP\_N10:

$ref: '#/components/schemas/EP\_N10-Multiple'

EP\_N11:

$ref: '#/components/schemas/EP\_N11-Multiple'

EP\_N16:

$ref: '#/components/schemas/EP\_N16-Multiple'

EP\_S5C:

$ref: '#/components/schemas/EP\_S5C-Multiple'

EP\_N40:

$ref: '#/components/schemas/EP\_N40-Multiple'

EP\_N88:

$ref: '#/components/schemas/EP\_N88-Multiple'

EP\_N16mb:

$ref: '#/components/schemas/EP\_N16mb-Multiple'

FiveQiDscpMappingSet:

$ref: '#/components/schemas/FiveQiDscpMappingSet-Single'

GtpUPathQoSMonitoringControl:

$ref: '#/components/schemas/GtpUPathQoSMonitoringControl-Single'

QFQoSMonitoringControl:

$ref: '#/components/schemas/QFQoSMonitoringControl-Single'

PredefinedPccRuleSet:

$ref: '#/components/schemas/PredefinedPccRuleSet-Single'

UpfFunction-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/ManagedFunction-Attr'

- type: object

properties:

pLMNInfoList:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/PlmnInfoList'

nRTACList:

$ref: '#/components/schemas/TACList'

cNSIIdList:

$ref: '#/components/schemas/CNSIIdList'

energySavingControl:

$ref: '#/components/schemas/EnergySavingControl'

energySavingState:

$ref: '#/components/schemas/EnergySavingState'

managedNFProfile:

$ref: '#/components/schemas/ManagedNFProfile'

supportedBMOList:

$ref: '#/components/schemas/SupportedBMOList'

upfInfo:

$ref: '#/components/schemas/UpfInfo'

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/ManagedFunction-ncO'

- type: object

properties:

EP\_N3:

$ref: '#/components/schemas/EP\_N3-Multiple'

EP\_N4:

$ref: '#/components/schemas/EP\_N4-Multiple'

EP\_N6:

$ref: '#/components/schemas/EP\_N6-Multiple'

EP\_N9:

$ref: '#/components/schemas/EP\_N9-Multiple'

EP\_S5U:

$ref: '#/components/schemas/EP\_S5U-Multiple'

N3iwfFunction-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/ManagedFunction-Attr'

- type: object

properties:

plmnIdList:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/PlmnIdList'

commModelList:

$ref: '#/components/schemas/CommModelList'

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/ManagedFunction-ncO'

- type: object

properties:

EP\_N3:

$ref: '#/components/schemas/EP\_N3-Multiple'

EP\_N4:

$ref: '#/components/schemas/EP\_N4-Multiple'

PcfFunction-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/ManagedFunction-Attr'

- type: object

properties:

pLMNInfoList:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/PlmnInfoList'

sBIFqdn:

type: string

managedNFProfile:

$ref: '#/components/schemas/ManagedNFProfile'

commModelList:

$ref: '#/components/schemas/CommModelList'

supportedBMOList:

$ref: '#/components/schemas/SupportedBMOList'

PcfInfo:

$ref: '#/components/schemas/PcfInfo'

configurable5QISetRef:

$ref: 'TS28623\_ComDefs.yaml#/components/schemas/Dn'

dynamic5QISetRef:

$ref: 'TS28623\_ComDefs.yaml#/components/schemas/Dn'

predefinedPccRuleSetRefs:

$ref: 'TS28623\_ComDefs.yaml#/components/schemas/DnList'

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/ManagedFunction-ncO'

- type: object

properties:

EP\_N5:

$ref: '#/components/schemas/EP\_N5-Multiple'

EP\_N7:

$ref: '#/components/schemas/EP\_N7-Multiple'

EP\_N15:

$ref: '#/components/schemas/EP\_N15-Multiple'

EP\_N16:

$ref: '#/components/schemas/EP\_N16-Multiple'

EP\_N28:

$ref: '#/components/schemas/EP\_N28-Multiple'

EP\_Rx:

$ref: '#/components/schemas/EP\_Rx-Multiple'

EP\_N84:

$ref: '#/components/schemas/EP\_N84-Multiple'

AusfFunction-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/ManagedFunction-Attr'

- type: object

properties:

plmnInfoList:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/PlmnInfoList'

sBIFqdn:

type: string

managedNFProfile:

$ref: '#/components/schemas/ManagedNFProfile'

commModelList:

$ref: '#/components/schemas/CommModelList'

ausfInfo:

$ref: '#/components/schemas/AusfInfo'

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/ManagedFunction-ncO'

- type: object

properties:

EP\_N12:

$ref: '#/components/schemas/EP\_N12-Multiple'

EP\_N13:

$ref: '#/components/schemas/EP\_N13-Multiple'

EP\_N61:

$ref: '#/components/schemas/EP\_N61-Multiple'

UdmFunction-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/ManagedFunction-Attr'

- type: object

properties:

pLMNInfoList:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/PlmnInfoList'

sBIFqdn:

type: string

managedNFProfile:

$ref: '#/components/schemas/ManagedNFProfile'

commModelList:

$ref: '#/components/schemas/CommModelList'

eCSAddrConfigInfo:

$ref: '#/components/schemas/ECSAddrConfigInfo'

udmInfo:

$ref: '#/components/schemas/UdmInfo'

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/ManagedFunction-ncO'

- type: object

properties:

EP\_N8:

$ref: '#/components/schemas/EP\_N8-Multiple'

EP\_N10:

$ref: '#/components/schemas/EP\_N10-Multiple'

EP\_N13:

$ref: '#/components/schemas/EP\_N13-Multiple'

EP\_N59:

$ref: '#/components/schemas/EP\_N13-Multiple'

EP\_NL6:

$ref: '#/components/schemas/EP\_NL6-Multiple'

EP\_N87:

$ref: '#/components/schemas/EP\_N87-Multiple'

UdrFunction-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/ManagedFunction-Attr'

- type: object

properties:

pLMNInfoList:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/PlmnInfoList'

sBIFqdn:

type: string

managedNFProfile:

$ref: '#/components/schemas/ManagedNFProfile'

udrInfo:

$ref: '#/components/schemas/UdrInfo'

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/ManagedFunction-ncO'

UdsfFunction-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/ManagedFunction-Attr'

- type: object

properties:

plmnInfoList:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/PlmnInfoList'

sBIFqdn:

type: string

managedNFProfile:

$ref: '#/components/schemas/ManagedNFProfile'

udsfInfo:

$ref: '#/components/schemas/UdsfInfo'

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/ManagedFunction-ncO'

NrfFunction-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/ManagedFunction-Attr'

- type: object

properties:

plmnInfoList:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/PlmnInfoList'

sBIFqdn:

type: string

cNSIIdList:

$ref: '#/components/schemas/CNSIIdList'

nFProfileList:

$ref: '#/components/schemas/NFProfileList'

nrfInfo:

$ref: '#/components/schemas/NrfInfo'

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/ManagedFunction-ncO'

- type: object

properties:

EP\_N27:

$ref: '#/components/schemas/EP\_N27-Multiple'

EP\_N96:

$ref: '#/components/schemas/EP\_N96-Multiple'

EP\_SM14:

$ref: '#/components/schemas/EP\_SM14-Multiple'

NssfFunction-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/ManagedFunction-Attr'

- type: object

properties:

pLMNInfoList:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/PlmnInfoList'

sBIFqdn:

type: string

cNSIIdList:

$ref: '#/components/schemas/CNSIIdList'

managedNFProfile:

$ref: '#/components/schemas/ManagedNFProfile'

commModelList:

$ref: '#/components/schemas/CommModelList'

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/ManagedFunction-ncO'

- type: object

properties:

EP\_N22:

$ref: '#/components/schemas/EP\_N22-Multiple'

EP\_N31:

$ref: '#/components/schemas/EP\_N31-Multiple'

EP\_N34:

$ref: '#/components/schemas/EP\_N34-Multiple'

SmsfFunction-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/ManagedFunction-Attr'

- type: object

properties:

plmnIdList:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/PlmnIdList'

sBIFqdn:

type: string

managedNFProfile:

$ref: '#/components/schemas/ManagedNFProfile'

commModelList:

$ref: '#/components/schemas/CommModelList'

smsfInfo:

$ref: '#/components/schemas/SmsfInfo'

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/ManagedFunction-ncO'

- type: object

properties:

EP\_N20:

$ref: '#/components/schemas/EP\_N20-Multiple'

EP\_N21:

$ref: '#/components/schemas/EP\_N21-Multiple'

EP\_MAP\_SMSC:

$ref: '#/components/schemas/EP\_MAP\_SMSC-Multiple'

LmfFunction-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/ManagedFunction-Attr'

- type: object

properties:

plmnIdList:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/PlmnIdList'

managedNFProfile:

$ref: '#/components/schemas/ManagedNFProfile'

commModelList:

$ref: '#/components/schemas/CommModelList'

lmfInfo:

$ref: '#/components/schemas/LmfInfo'

ephemerisInfos:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/EphemerisInfos'

trpInfoList:

$ref: '#/components/schemas/TrpInfoList'

mappedCellIdInfoList:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/MappedCellIdInfoList'

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/ManagedFunction-ncO'

- type: object

properties:

EP\_NLS:

$ref: '#/components/schemas/EP\_NLS-Multiple'

NgeirFunction-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/ManagedFunction-Attr'

- type: object

properties:

plmnIdList:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/PlmnIdList'

sBIFqdn:

type: string

snssaiList:

$ref: '#/components/schemas/SnssaiList'

managedNFProfile:

$ref: '#/components/schemas/ManagedNFProfile'

commModelList:

$ref: '#/components/schemas/CommModelList'

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/ManagedFunction-ncO'

- type: object

properties:

EP\_N17:

$ref: '#/components/schemas/EP\_N17-Multiple'

SeppFunction-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/ManagedFunction-Attr'

- type: object

properties:

plmnId:

$ref: 'TS28623\_ComDefs.yaml#/components/schemas/PlmnId'

sEPPType:

$ref: '#/components/schemas/SEPPType'

sEPPId:

type: integer

fqdn:

$ref: 'TS28623\_ComDefs.yaml#/components/schemas/Fqdn'

seppInfo:

$ref: '#/components/schemas/SeppInfo'

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/ManagedFunction-ncO'

- type: object

properties:

EP\_N32:

$ref: '#/components/schemas/EP\_N32-Multiple'

NwdafFunction-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/ManagedFunction-Attr'

- type: object

properties:

plmnIdList:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/PlmnIdList'

sBIFqdn:

type: string

snssaiList:

$ref: '#/components/schemas/SnssaiList'

managedNFProfile:

$ref: '#/components/schemas/ManagedNFProfile'

commModelList:

$ref: '#/components/schemas/CommModelList'

networkSliceInfoList:

$ref: '#/components/schemas/NetworkSliceInfoList'

administrativeState:

$ref: 'TS28623\_ComDefs.yaml#/components/schemas/AdministrativeState'

nwdafInfo:

$ref: '#/components/schemas/NwdafInfo'

nwdafLogicalFuncSupported:

type: string

enum:

- NWDAF\_WITH\_ANLF

- NWDAF\_WITH\_MTLF

- NWDAF\_WITH\_ANLF\_MTLF

- type: object

properties:

EP\_NL3:

$ref: '#/components/schemas/EP\_NL3-Multiple'

EP\_N34:

$ref: '#/components/schemas/EP\_N34-Multiple'

AnLFFunction:

$ref: '#/components/schemas/AnLFFunction-Single'

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/ManagedFunction-ncO'

ScpFunction-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/ManagedFunction-Attr'

- type: object

properties:

supportedFuncList:

$ref: '#/components/schemas/SupportedFuncList'

address:

$ref: 'TS28623\_ComDefs.yaml#/components/schemas/HostAddr'

scpInfo:

$ref: '#/components/schemas/ScpInfo'

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/ManagedFunction-ncO'

- type: object

properties:

EP\_SM13:

$ref: '#/components/schemas/EP\_SM13-Multiple'

NefFunction-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/ManagedFunction-Attr'

- type: object

properties:

sBIFqdn:

type: string

snssaiList:

$ref: '#/components/schemas/SnssaiList'

managedNFProfile:

$ref: '#/components/schemas/ManagedNFProfile'

capabilityList:

$ref: '#/components/schemas/CapabilityList'

isCAPIFSup:

type: boolean

nefInfo:

$ref: '#/components/schemas/NefInfo'

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/ManagedFunction-ncO'

- type: object

properties:

EP\_N33:

$ref: '#/components/schemas/EP\_N33-Multiple'

EP\_NL5:

$ref: '#/components/schemas/EP\_NL5-Multiple'

EP\_N85:

$ref: '#/components/schemas/EP\_N85-Multiple'

EP\_N62:

$ref: '#/components/schemas/EP\_N62-Multiple'

EP\_N63:

$ref: '#/components/schemas/EP\_N63-Multiple'

NsacfFunction-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/ManagedFunction-Attr'

- type: object

properties:

managedNFProfile:

$ref: '#/components/schemas/ManagedNFProfile'

nsacfInfoSnssai:

type: array

items:

$ref: '#/components/schemas/NsacfInfoSnssai'

nsacfInfo:

$ref: '#/components/schemas/NsacfInfo'

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/ManagedFunction-ncO'

- type: object

properties:

EP\_N60:

$ref: '#/components/schemas/EP\_N60-Multiple'

DDNMFFunction-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/ManagedFunction-Attr'

- type: object

properties:

plmnId:

$ref: 'TS28623\_ComDefs.yaml#/components/schemas/PlmnId'

sBIFqdn:

type: string

managedNFProfile:

$ref: '#/components/schemas/ManagedNFProfile'

commModelList:

$ref: '#/components/schemas/CommModelList'

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/ManagedFunction-ncO'

- type: object

properties:

EP\_Npc4:

$ref: '#/components/schemas/EP\_Npc4-Multiple'

EP\_Npc6:

$ref: '#/components/schemas/EP\_Npc6-Multiple'

EP\_Npc7:

$ref: '#/components/schemas/EP\_Npc7-Multiple'

EP\_Npc8:

$ref: '#/components/schemas/EP\_Npc8-Multiple'

EASDFFunction-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/ManagedFunction-Attr'

- type: object

properties:

plmnId:

$ref: 'TS28623\_ComDefs.yaml#/components/schemas/PlmnId'

sBIFqdn:

type: string

managedNFProfile:

$ref: '#/components/schemas/ManagedNFProfile'

serverAddr:

type: string

easdfInfo:

$ref: '#/components/schemas/EasdfInfo'

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/ManagedFunction-ncO'

- type: object

properties:

EP\_N88:

$ref: '#/components/schemas/EP\_N88-Multiple'

EcmConnectionInfo-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- type: object

properties:

eASServiceArea:

$ref: 'TS28538\_EdgeNrm.yaml#/components/schemas/ServingLocation'

eESServiceArea:

$ref: 'TS28538\_EdgeNrm.yaml#/components/schemas/ServingLocation'

eDNServiceArea:

$ref: 'TS28538\_EdgeNrm.yaml#/components/schemas/ServingLocation'

eASIpAddress:

type: string

eESIpAddress:

type: string

eCSIpAddress:

type: string

ednIdentifier:

type: string

ecmConnectionType:

type: string

enum:

- USERPLANE

- CONTROLPLANE

- BOTH

5GCNfConnEcmInfoList:

$ref: '#/components/schemas/5GCNfConnEcmInfoList'

uPFConnectionInfo:

$ref: '#/components/schemas/UPFConnectionInfo'

ExternalAmfFunction-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/ManagedFunction-Attr'

- type: object

properties:

plmnIdList:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/PlmnIdList'

amfIdentifier:

$ref: '#/components/schemas/AmfIdentifier'

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/ManagedFunction-ncO'

ExternalNrfFunction-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/ManagedFunction-Attr'

- type: object

properties:

plmnIdList:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/PlmnIdList'

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/ManagedFunction-ncO'

ExternalNssfFunction-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/ManagedFunction-Attr'

- type: object

properties:

plmnIdList:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/PlmnIdList'

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/ManagedFunction-ncO'

ExternalSeppFunction-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/ManagedFunction-Attr'

- type: object

properties:

plmnId:

$ref: 'TS28623\_ComDefs.yaml#/components/schemas/PlmnId'

sEPPId:

type: integer

fqdn:

$ref: 'TS28623\_ComDefs.yaml#/components/schemas/Fqdn'

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/ManagedFunction-ncO'

EP\_N2-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/EP\_RP-Attr'

- type: object

properties:

localAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/LocalAddress'

remoteAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/RemoteAddress'

EP\_N3-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/EP\_RP-Attr'

- type: object

properties:

localAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/LocalAddress'

remoteAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/RemoteAddress'

epTransportRefs:

$ref: 'TS28623\_ComDefs.yaml#/components/schemas/DnList'

EP\_N4-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/EP\_RP-Attr'

- type: object

properties:

localAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/LocalAddress'

remoteAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/RemoteAddress'

EP\_N5-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/EP\_RP-Attr'

- type: object

properties:

localAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/LocalAddress'

remoteAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/RemoteAddress'

EP\_N6-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/EP\_RP-Attr'

- type: object

properties:

localAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/LocalAddress'

remoteAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/RemoteAddress'

EP\_N7-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/EP\_RP-Attr'

- type: object

properties:

localAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/LocalAddress'

remoteAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/RemoteAddress'

EP\_N8-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/EP\_RP-Attr'

- type: object

properties:

localAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/LocalAddress'

remoteAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/RemoteAddress'

EP\_N9-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/EP\_RP-Attr'

- type: object

properties:

localAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/LocalAddress'

remoteAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/RemoteAddress'

EP\_N10-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/EP\_RP-Attr'

- type: object

properties:

localAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/LocalAddress'

remoteAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/RemoteAddress'

EP\_N11-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/EP\_RP-Attr'

- type: object

properties:

localAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/LocalAddress'

remoteAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/RemoteAddress'

EP\_N12-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/EP\_RP-Attr'

- type: object

properties:

localAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/LocalAddress'

remoteAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/RemoteAddress'

EP\_N13-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/EP\_RP-Attr'

- type: object

properties:

localAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/LocalAddress'

remoteAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/RemoteAddress'

EP\_N14-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/EP\_RP-Attr'

- type: object

properties:

localAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/LocalAddress'

remoteAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/RemoteAddress'

EP\_N15-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/EP\_RP-Attr'

- type: object

properties:

localAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/LocalAddress'

remoteAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/RemoteAddress'

EP\_N16-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/EP\_RP-Attr'

- type: object

properties:

localAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/LocalAddress'

remoteAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/RemoteAddress'

EP\_N17-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/EP\_RP-Attr'

- type: object

properties:

localAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/LocalAddress'

remoteAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/RemoteAddress'

EP\_N20-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/EP\_RP-Attr'

- type: object

properties:

localAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/LocalAddress'

remoteAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/RemoteAddress'

EP\_N21-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/EP\_RP-Attr'

- type: object

properties:

localAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/LocalAddress'

remoteAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/RemoteAddress'

EP\_N22-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/EP\_RP-Attr'

- type: object

properties:

localAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/LocalAddress'

remoteAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/RemoteAddress'

EP\_N26-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/EP\_RP-Attr'

- type: object

properties:

localAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/LocalAddress'

remoteAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/RemoteAddress'

EP\_N27-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/EP\_RP-Attr'

- type: object

properties:

localAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/LocalAddress'

remoteAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/RemoteAddress'

EP\_N31-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/EP\_RP-Attr'

- type: object

properties:

localAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/LocalAddress'

remoteAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/RemoteAddress'

EP\_N32-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/EP\_RP-Attr'

- type: object

properties:

remotePlmnId:

$ref: 'TS28623\_ComDefs.yaml#/components/schemas/PlmnId'

remoteSeppAddress:

$ref: 'TS28623\_ComDefs.yaml#/components/schemas/HostAddr'

remoteSeppId:

type: integer

n32cParas:

type: string

n32fPolicy:

type: string

withIPX:

type: boolean

EP\_N33-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/EP\_RP-Attr'

- type: object

properties:

localAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/LocalAddress'

remoteAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/RemoteAddress'

EP\_N34-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/EP\_RP-Attr'

- type: object

properties:

localAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/LocalAddress'

remoteAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/RemoteAddress'

EP\_S5C-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/EP\_RP-Attr'

- type: object

properties:

localAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/LocalAddress'

remoteAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/RemoteAddress'

EP\_S5U-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/EP\_RP-Attr'

- type: object

properties:

localAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/LocalAddress'

remoteAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/RemoteAddress'

EP\_Rx-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/EP\_RP-Attr'

- type: object

properties:

localAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/LocalAddress'

remoteAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/RemoteAddress'

EP\_MAP\_SMSC-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/EP\_RP-Attr'

- type: object

properties:

localAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/LocalAddress'

remoteAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/RemoteAddress'

EP\_NLS-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/EP\_RP-Attr'

- type: object

properties:

localAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/LocalAddress'

remoteAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/RemoteAddress'

EP\_NL2-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/EP\_RP-Attr'

- type: object

properties:

localAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/LocalAddress'

remoteAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/RemoteAddress'

EP\_NL3-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/EP\_RP-Attr'

- type: object

properties:

localAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/LocalAddress'

remoteAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/RemoteAddress'

EP\_NL5-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/EP\_RP-Attr'

- type: object

properties:

localAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/LocalAddress'

remoteAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/RemoteAddress'

EP\_NL6-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/EP\_RP-Attr'

- type: object

properties:

localAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/LocalAddress'

remoteAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/RemoteAddress'

EP\_NL9-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/EP\_RP-Attr'

- type: object

properties:

localAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/LocalAddress'

remoteAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/RemoteAddress'

EP\_N60-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/EP\_RP-Attr'

- type: object

properties:

localAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/LocalAddress'

remoteAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/RemoteAddress'

EP\_Npc4-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/EP\_RP-Attr'

- type: object

properties:

localAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/LocalAddress'

remoteAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/RemoteAddress'

EP\_Npc6-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/EP\_RP-Attr'

- type: object

properties:

localAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/LocalAddress'

remoteAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/RemoteAddress'

EP\_Npc7-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/EP\_RP-Attr'

- type: object

properties:

localAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/LocalAddress'

remoteAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/RemoteAddress'

EP\_Npc8-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/EP\_RP-Attr'

- type: object

properties:

localAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/LocalAddress'

remoteAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/RemoteAddress'

EP\_N88-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/EP\_RP-Attr'

- type: object

properties:

localAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/LocalAddress'

remoteAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/RemoteAddress'

FiveQiDscpMappingSet-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- type: object

properties:

FiveQiDscpMappingList:

type: array

items:

$ref: '#/components/schemas/FiveQiDscpMapping'

FiveQICharacteristics-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

fiveQIValue:

type: integer

resourceType:

type: string

enum:

- GBR

- NON\_GBR

- DELAY\_CRITICAL\_GBR

priorityLevel:

type: integer

packetDelayBudget:

type: integer

packetErrorRate:

$ref: '#/components/schemas/PacketErrorRate'

averagingWindow:

type: integer

maximumDataBurstVolume:

type: integer

FiveQICharacteristics-Multiple:

type: array

items:

$ref: '#/components/schemas/FiveQICharacteristics-Single'

Configurable5QISet-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- type: object

properties:

configurable5QIs:

$ref: '#/components/schemas/FiveQICharacteristics-Multiple'

Dynamic5QISet-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- type: object

properties:

dynamic5QIs:

$ref: '#/components/schemas/FiveQICharacteristics-Multiple'

GtpUPathQoSMonitoringControl-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- type: object

properties:

gtpUPathQoSMonitoringState:

type: string

enum:

- ENABLED

- DISABLED

gtpUPathMonitoredSNSSAIs:

type: array

items:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/Snssai'

monitoredDSCPs:

type: array

items:

type: integer

minimum: 0

maximum: 255

isEventTriggeredGtpUPathMonitoringSupported:

type: boolean

isPeriodicGtpUMonitoringSupported:

type: boolean

isImmediateGtpUMonitoringSupported:

type: boolean

gtpUPathDelayThresholds:

$ref: '#/components/schemas/GtpUPathDelayThresholdsType'

gtpUPathMinimumWaitTime:

type: integer

gtpUPathMeasurementPeriod:

type: integer

QFQoSMonitoringControl-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- type: object

properties:

qFQoSMonitoringState:

type: string

enum:

- ENABLED

- DISABLED

qFMonitoredSNSSAIs:

type: array

items:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/Snssai'

qFMonitored5QIs:

type: array

items:

type: integer

minimum: 0

maximum: 255

isEventTriggeredQFMonitoringSupported:

type: boolean

isPeriodicQFMonitoringSupported:

type: boolean

isSessionReleasedQFMonitoringSupported:

type: boolean

qFPacketDelayThresholds:

$ref: '#/components/schemas/QFPacketDelayThresholdsType'

qFMinimumWaitTime:

type: integer

qFMeasurementPeriod:

type: integer

PredefinedPccRuleSet-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- type: object

properties:

predefinedPccRules:

type: array

items:

$ref: '#/components/schemas/PccRule'

AfFunction-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/ManagedFunction-Attr'

- type: object

properties:

plmnIdList:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/PlmnIdList'

managedNFProfile:

$ref: '#/components/schemas/ManagedNFProfile'

commModelList:

$ref: '#/components/schemas/CommModelList'

trustAfInfo:

$ref: '#/components/schemas/TrustAfInfo'

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/ManagedFunction-ncO'

- type: object

properties:

EP\_N5:

$ref: '#/components/schemas/EP\_N5-Multiple'

EP\_N86:

$ref: '#/components/schemas/EP\_N86-Multiple'

EP\_N63:

$ref: '#/components/schemas/EP\_N63-Multiple'

EP\_N62:

$ref: '#/components/schemas/EP\_N62-Multiple'

NssaafFunction-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/ManagedFunction-Attr'

- type: object

properties:

pLMNInfoList:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/PlmnInfoList'

sBIFqdn:

type: string

cNSIIdList:

$ref: '#/components/schemas/CNSIIdList'

nFProfileList:

$ref: '#/components/schemas/NFProfileList'

commModelList:

$ref: '#/components/schemas/CommModelList'

nssafInfo:

$ref: '#/components/schemas/NssaafInfo'

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/ManagedFunction-ncO'

EP\_N58-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/EP\_RP-Attr'

- type: object

properties:

localAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/LocalAddress'

remoteAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/RemoteAddress'

EP\_N59-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/EP\_RP-Attr'

- type: object

properties:

localAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/LocalAddress'

remoteAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/RemoteAddress'

DccfFunction-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/ManagedFunction-Attr'

- type: object

properties:

pLMNInfoList:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/PlmnInfoList'

sBIFqdn:

type: string

managedNFProfile:

$ref: '#/components/schemas/ManagedNFProfile'

commModelList:

$ref: '#/components/schemas/CommModelList'

dccfInfo:

$ref: '#/components/schemas/DccfInfo'

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/ManagedFunction-ncO'

MfafFunction-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/ManagedFunction-Attr'

- type: object

properties:

pLMNInfoList:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/PlmnInfoList'

sBIFqdn:

type: string

managedNFProfile:

$ref: '#/components/schemas/ManagedNFProfile'

commModelList:

$ref: '#/components/schemas/CommModelList'

mfafInfo:

$ref: '#/components/schemas/MfafInfo'

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/ManagedFunction-ncO'

ChfFunction-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/ManagedFunction-Attr'

- type: object

properties:

pLMNInfoList:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/PlmnInfoList'

sBIFqdn:

type: string

managedNFProfile:

$ref: '#/components/schemas/ManagedNFProfile'

commModelList:

$ref: '#/components/schemas/CommModelList'

chfInfo:

$ref: '#/components/schemas/ChfInfo'

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/ManagedFunction-ncO'

- type: object

properties:

EP\_N28:

$ref: '#/components/schemas/EP\_N28-Multiple'

EP\_N40:

$ref: '#/components/schemas/EP\_N40-Multiple'

EP\_N41:

$ref: '#/components/schemas/EP\_N41-Multiple'

EP\_N42:

$ref: '#/components/schemas/EP\_N42-Multiple'

EP\_N28-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/EP\_RP-Attr'

- type: object

properties:

localAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/LocalAddress'

remoteAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/RemoteAddress'

EP\_N40-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/EP\_RP-Attr'

- type: object

properties:

localAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/LocalAddress'

remoteAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/RemoteAddress'

EP\_N41-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/EP\_RP-Attr'

- type: object

properties:

localAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/LocalAddress'

remoteAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/RemoteAddress'

EP\_N42-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/EP\_RP-Attr'

- type: object

properties:

localAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/LocalAddress'

remoteAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/RemoteAddress'

AanfFunction-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/ManagedFunction-Attr'

- type: object

properties:

pLMNInfoList:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/PlmnInfoList'

sBIFqdn:

type: string

managedNFProfile:

$ref: '#/components/schemas/ManagedNFProfile'

commModelList:

$ref: '#/components/schemas/CommModelList'

aanfInfo:

$ref: '#/components/schemas/AanfInfo'

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/ManagedFunction-ncO'

- type: object

properties:

EP\_N61:

$ref: '#/components/schemas/EP\_N61-Multiple'

EP\_N62:

$ref: '#/components/schemas/EP\_N62-Multiple'

EP\_N63:

$ref: '#/components/schemas/EP\_N63-Multiple'

EP\_N61-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/EP\_RP-Attr'

- type: object

properties:

localAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/LocalAddress'

remoteAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/RemoteAddress'

EP\_N62-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/EP\_RP-Attr'

- type: object

properties:

localAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/LocalAddress'

remoteAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/RemoteAddress'

EP\_N63-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/EP\_RP-Attr'

- type: object

properties:

localAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/LocalAddress'

remoteAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/RemoteAddress'

GmlcFunction-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/ManagedFunction-Attr'

- type: object

properties:

pLMNInfoList:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/PlmnInfoList'

sBIFqdn:

type: string

managedNFProfile:

$ref: '#/components/schemas/ManagedNFProfile'

commModelList:

$ref: '#/components/schemas/CommModelList'

gmlcInfo:

$ref: '#/components/schemas/GmlcInfo'

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/ManagedFunction-ncO'

- type: object

properties:

EP\_NL2:

$ref: '#/components/schemas/EP\_NL2-Multiple'

EP\_NL3:

$ref: '#/components/schemas/EP\_NL3-Multiple'

EP\_NL5:

$ref: '#/components/schemas/EP\_NL5-Multiple'

EP\_NL6:

$ref: '#/components/schemas/EP\_NL6-Multiple'

EP\_NL9:

$ref: '#/components/schemas/EP\_NL9-Multiple'

TsctsfFunction-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/ManagedFunction-Attr'

- type: object

properties:

pLMNInfoList:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/PlmnInfoList'

sBIFqdn:

type: string

managedNFProfile:

$ref: '#/components/schemas/ManagedNFProfile'

commModelList:

$ref: '#/components/schemas/CommModelList'

tsctsfInfo:

$ref: '#/components/schemas/TsctsfInfo'

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/ManagedFunction-ncO'

- type: object

properties:

EP\_N84:

$ref: '#/components/schemas/EP\_N84-Multiple'

EP\_N85:

$ref: '#/components/schemas/EP\_N85-Multiple'

EP\_N86:

$ref: '#/components/schemas/EP\_N86-Multiple'

EP\_N87:

$ref: '#/components/schemas/EP\_N87-Multiple'

EP\_N89:

$ref: '#/components/schemas/EP\_N89-Multiple'

EP\_N96:

$ref: '#/components/schemas/EP\_N96-Multiple'

EP\_N84-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/EP\_RP-Attr'

- type: object

properties:

localAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/LocalAddress'

remoteAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/RemoteAddress'

EP\_N85-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/EP\_RP-Attr'

- type: object

properties:

localAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/LocalAddress'

remoteAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/RemoteAddress'

EP\_N86-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/EP\_RP-Attr'

- type: object

properties:

localAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/LocalAddress'

remoteAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/RemoteAddress'

EP\_N87-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/EP\_RP-Attr'

- type: object

properties:

localAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/LocalAddress'

remoteAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/RemoteAddress'

EP\_N89-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/EP\_RP-Attr'

- type: object

properties:

localAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/LocalAddress'

remoteAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/RemoteAddress'

EP\_N96-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/EP\_RP-Attr'

- type: object

properties:

localAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/LocalAddress'

remoteAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/RemoteAddress'

BsfFunction-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/ManagedFunction-Attr'

- type: object

properties:

pLMNInfoList:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/PlmnInfoList'

sBIFqdn:

type: string

cNSIIdList:

$ref: '#/components/schemas/CNSIIdList'

managedNFProfile:

$ref: '#/components/schemas/ManagedNFProfile'

commModelList:

$ref: '#/components/schemas/CommModelList'

bsfInfo:

$ref: '#/components/schemas/BsfInfo'

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/ManagedFunction-ncO'

MbSmfFunction-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/ManagedFunction-Attr'

- type: object

properties:

plmnIdList:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/PlmnIdList'

managedNFProfile:

$ref: '#/components/schemas/ManagedNFProfile'

commModelList:

$ref: '#/components/schemas/CommModelList'

mbSmfInfo:

$ref: '#/components/schemas/MbSmfInfo'

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/ManagedFunction-ncO'

- type: object

properties:

EP\_N11mb:

$ref: '#/components/schemas/EP\_N11mb-Multiple'

EP\_N16mb:

$ref: '#/components/schemas/EP\_N16mb-Multiple'

EP\_Nmb1:

$ref: '#/components/schemas/EP\_Nmb1-Multiple'

EP\_N4mb:

$ref: '#/components/schemas/EP\_N4mb-Multiple'

EP\_N11mb-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/EP\_RP-Attr'

- type: object

properties:

localAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/LocalAddress'

remoteAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/RemoteAddress'

EP\_N16mb-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/EP\_RP-Attr'

- type: object

properties:

localAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/LocalAddress'

remoteAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/RemoteAddress'

EP\_Nmb1-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/EP\_RP-Attr'

- type: object

properties:

localAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/LocalAddress'

remoteAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/RemoteAddress'

MbUpfFunction-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/ManagedFunction-Attr'

- type: object

properties:

plmnIdList:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/PlmnIdList'

managedNFProfile:

$ref: '#/components/schemas/ManagedNFProfile'

commModelList:

$ref: '#/components/schemas/CommModelList'

mbUpfInfo:

$ref: '#/components/schemas/MbUpfInfo'

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/ManagedFunction-ncO'

- type: object

properties:

EP\_N3mb:

$ref: '#/components/schemas/EP\_N3mb-Multiple'

EP\_N4mb:

$ref: '#/components/schemas/EP\_N4mb-Multiple'

EP\_N19mb:

$ref: '#/components/schemas/EP\_N19mb-Multiple'

EP\_Nmb9:

$ref: '#/components/schemas/EP\_Nmb9-Multiple'

MnpfFunction-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/ManagedFunction-Attr'

- type: object

properties:

pLMNInfoList:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/PlmnInfoList'

managedNFProfile:

$ref: '#/components/schemas/ManagedNFProfile'

commModelList:

$ref: '#/components/schemas/CommModelList'

mnpfInfo:

$ref: '#/components/schemas/MnpfInfo'

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/ManagedFunction-ncO'

- type: object

properties:

EP\_SM12:

$ref: '#/components/schemas/EP\_SM12-Multiple'

EP\_SM13:

$ref: '#/components/schemas/EP\_SM13-Multiple'

EP\_SM14:

$ref: '#/components/schemas/EP\_SM14-Multiple'

EP\_N3mb-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/EP\_RP-Attr'

- type: object

properties:

localAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/LocalAddress'

remoteAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/RemoteAddress'

EP\_N4mb-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/EP\_RP-Attr'

- type: object

properties:

localAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/LocalAddress'

remoteAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/RemoteAddress'

EP\_N19mb-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/EP\_RP-Attr'

- type: object

properties:

localAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/LocalAddress'

remoteAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/RemoteAddress'

EP\_Nmb9-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/EP\_RP-Attr'

- type: object

properties:

localAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/LocalAddress'

remoteAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/RemoteAddress'

AnLFFunction-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- type: object

properties:

activationStatus:

type: string

enum:

- ACTIVATED

- DEACTIVATED

mLModelRefList:

$ref: 'TS28623\_ComDefs.yaml#/components/schemas/DnList'

aIMLInferenceFunctionRefList:

$ref: 'TS28623\_ComDefs.yaml#/components/schemas/DnList'

EP\_SM12-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/EP\_RP-Attr'

- type: object

properties:

localAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/LocalAddress'

remoteAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/RemoteAddress'

EP\_SM13-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/EP\_RP-Attr'

- type: object

properties:

localAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/LocalAddress'

remoteAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/RemoteAddress'

EP\_SM14-Single:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

- type: object

properties:

attributes:

allOf:

- $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/EP\_RP-Attr'

- type: object

properties:

localAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/LocalAddress'

remoteAddress:

$ref: 'TS28541\_NrNrm.yaml#/components/schemas/RemoteAddress'

#-------- Definition of JSON arrays for name-contained IOCs ----------------------

AmfFunction-Multiple:

type: array

items:

$ref: '#/components/schemas/AmfFunction-Single'

SmfFunction-Multiple:

type: array

items:

$ref: '#/components/schemas/SmfFunction-Single'

UpfFunction-Multiple:

type: array

items:

$ref: '#/components/schemas/UpfFunction-Single'

N3iwfFunction-Multiple:

type: array

items:

$ref: '#/components/schemas/N3iwfFunction-Single'

PcfFunction-Multiple:

type: array

items:

$ref: '#/components/schemas/PcfFunction-Single'

AusfFunction-Multiple:

type: array

items:

$ref: '#/components/schemas/AusfFunction-Single'

UdmFunction-Multiple:

type: array

items:

$ref: '#/components/schemas/UdmFunction-Single'

UdrFunction-Multiple:

type: array

items:

$ref: '#/components/schemas/UdrFunction-Single'

UdsfFunction-Multiple:

type: array

items:

$ref: '#/components/schemas/UdsfFunction-Single'

NrfFunction-Multiple:

type: array

items:

$ref: '#/components/schemas/NrfFunction-Single'

NssfFunction-Multiple:

type: array

items:

$ref: '#/components/schemas/NssfFunction-Single'

SmsfFunction-Multiple:

type: array

items:

$ref: '#/components/schemas/SmsfFunction-Single'

LmfFunction-Multiple:

type: array

items:

$ref: '#/components/schemas/LmfFunction-Single'

NgeirFunction-Multiple:

type: array

items:

$ref: '#/components/schemas/NgeirFunction-Single'

SeppFunction-Multiple:

type: array

items:

$ref: '#/components/schemas/SeppFunction-Single'

NwdafFunction-Multiple:

type: array

items:

$ref: '#/components/schemas/NwdafFunction-Single'

ScpFunction-Multiple:

type: array

items:

$ref: '#/components/schemas/ScpFunction-Single'

NefFunction-Multiple:

type: array

items:

$ref: '#/components/schemas/NefFunction-Single'

NsacfFunction-Multiple:

type: array

items:

$ref: '#/components/schemas/NsacfFunction-Single'

ExternalAmfFunction-Multiple:

type: array

items:

$ref: '#/components/schemas/ExternalAmfFunction-Single'

ExternalNrfFunction-Multiple:

type: array

items:

$ref: '#/components/schemas/ExternalNrfFunction-Single'

ExternalNssfFunction-Multiple:

type: array

items:

$ref: '#/components/schemas/ExternalNssfFunction-Single'

ExternalSeppFunction-Nultiple:

type: array

items:

$ref: '#/components/schemas/ExternalSeppFunction-Single'

AmfSet-Multiple:

type: array

items:

$ref: '#/components/schemas/AmfSet-Single'

AmfRegion-Multiple:

type: array

items:

$ref: '#/components/schemas/AmfRegion-Single'

EASDFFunction-Multiple:

type: array

items:

$ref: '#/components/schemas/EASDFFunction-Single'

EP\_N2-Multiple:

type: array

items:

$ref: '#/components/schemas/EP\_N2-Single'

EP\_N3-Multiple:

type: array

items:

$ref: '#/components/schemas/EP\_N3-Single'

EP\_N4-Multiple:

type: array

items:

$ref: '#/components/schemas/EP\_N4-Single'

EP\_N5-Multiple:

type: array

items:

$ref: '#/components/schemas/EP\_N5-Single'

EP\_N6-Multiple:

type: array

items:

$ref: '#/components/schemas/EP\_N6-Single'

EP\_N7-Multiple:

type: array

items:

$ref: '#/components/schemas/EP\_N7-Single'

EP\_N8-Multiple:

type: array

items:

$ref: '#/components/schemas/EP\_N8-Single'

EP\_N9-Multiple:

type: array

items:

$ref: '#/components/schemas/EP\_N9-Single'

EP\_N10-Multiple:

type: array

items:

$ref: '#/components/schemas/EP\_N10-Single'

EP\_N11-Multiple:

type: array

items:

$ref: '#/components/schemas/EP\_N11-Single'

EP\_N12-Multiple:

type: array

items:

$ref: '#/components/schemas/EP\_N12-Single'

EP\_N13-Multiple:

type: array

items:

$ref: '#/components/schemas/EP\_N13-Single'

EP\_N14-Multiple:

type: array

items:

$ref: '#/components/schemas/EP\_N14-Single'

EP\_N15-Multiple:

type: array

items:

$ref: '#/components/schemas/EP\_N15-Single'

EP\_N16-Multiple:

type: array

items:

$ref: '#/components/schemas/EP\_N16-Single'

EP\_N17-Multiple:

type: array

items:

$ref: '#/components/schemas/EP\_N17-Single'

EP\_N20-Multiple:

type: array

items:

$ref: '#/components/schemas/EP\_N20-Single'

EP\_N21-Multiple:

type: array

items:

$ref: '#/components/schemas/EP\_N21-Single'

EP\_N22-Multiple:

type: array

items:

$ref: '#/components/schemas/EP\_N22-Single'

EP\_N26-Multiple:

type: array

items:

$ref: '#/components/schemas/EP\_N26-Single'

EP\_N27-Multiple:

type: array

items:

$ref: '#/components/schemas/EP\_N27-Single'

EP\_N28-Multiple:

type: array

items:

$ref: '#/components/schemas/EP\_N28-Single'

EP\_N31-Multiple:

type: array

items:

$ref: '#/components/schemas/EP\_N31-Single'

EP\_N32-Multiple:

type: array

items:

$ref: '#/components/schemas/EP\_N32-Single'

EP\_N33-Multiple:

type: array

items:

$ref: '#/components/schemas/EP\_N33-Single'

EP\_N34-Multiple:

type: array

items:

$ref: '#/components/schemas/EP\_N34-Single'

EP\_N40-Multiple:

type: array

items:

$ref: '#/components/schemas/EP\_N40-Single'

EP\_N41-Multiple:

type: array

items:

$ref: '#/components/schemas/EP\_N41-Single'

EP\_N42-Multiple:

type: array

items:

$ref: '#/components/schemas/EP\_N42-Single'

EP\_S5C-Multiple:

type: array

items:

$ref: '#/components/schemas/EP\_S5C-Single'

EP\_S5U-Multiple:

type: array

items:

$ref: '#/components/schemas/EP\_S5U-Single'

EP\_Rx-Multiple:

type: array

items:

$ref: '#/components/schemas/EP\_Rx-Single'

EP\_MAP\_SMSC-Multiple:

type: array

items:

$ref: '#/components/schemas/EP\_MAP\_SMSC-Single'

EP\_NLS-Multiple:

type: array

items:

$ref: '#/components/schemas/EP\_NLS-Single'

EP\_NL2-Multiple:

type: array

items:

$ref: '#/components/schemas/EP\_NL2-Single'

EP\_NL3-Multiple:

type: array

items:

$ref: '#/components/schemas/EP\_NL3-Single'

EP\_NL5-Multiple:

type: array

items:

$ref: '#/components/schemas/EP\_NL5-Single'

EP\_NL6-Multiple:

type: array

items:

$ref: '#/components/schemas/EP\_NL6-Single'

EP\_NL9-Multiple:

type: array

items:

$ref: '#/components/schemas/EP\_NL9-Single'

EP\_N60-Multiple:

type: array

items:

$ref: '#/components/schemas/EP\_N60-Single'

EP\_N61-Multiple:

type: array

items:

$ref: '#/components/schemas/EP\_N61-Single'

EP\_N62-Multiple:

type: array

items:

$ref: '#/components/schemas/EP\_N62-Single'

EP\_N63-Multiple:

type: array

items:

$ref: '#/components/schemas/EP\_N63-Single'

EP\_Npc4-Multiple:

type: array

items:

$ref: '#/components/schemas/EP\_Npc4-Single'

EP\_Npc6-Multiple:

type: array

items:

$ref: '#/components/schemas/EP\_Npc6-Single'

EP\_Npc7-Multiple:

type: array

items:

$ref: '#/components/schemas/EP\_Npc7-Single'

EP\_Npc8-Multiple:

type: array

items:

$ref: '#/components/schemas/EP\_Npc8-Single'

EP\_N84-Multiple:

type: array

items:

$ref: '#/components/schemas/EP\_N84-Single'

EP\_N85-Multiple:

type: array

items:

$ref: '#/components/schemas/EP\_N85-Single'

EP\_N86-Multiple:

type: array

items:

$ref: '#/components/schemas/EP\_N86-Single'

EP\_N87-Multiple:

type: array

items:

$ref: '#/components/schemas/EP\_N87-Single'

EP\_N88-Multiple:

type: array

items:

$ref: '#/components/schemas/EP\_N88-Single'

EP\_N89-Multiple:

type: array

items:

$ref: '#/components/schemas/EP\_N89-Single'

EP\_N96-Multiple:

type: array

items:

$ref: '#/components/schemas/EP\_N96-Single'

EP\_N11mb-Multiple:

type: array

items:

$ref: '#/components/schemas/EP\_N11mb-Single'

EP\_N16mb-Multiple:

type: array

items:

$ref: '#/components/schemas/EP\_N16mb-Single'

EP\_Nmb1-Multiple:

type: array

items:

$ref: '#/components/schemas/EP\_Nmb1-Single'

EP\_N3mb-Multiple:

type: array

items:

$ref: '#/components/schemas/EP\_N3mb-Single'

EP\_N4mb-Multiple:

type: array

items:

$ref: '#/components/schemas/EP\_N4mb-Single'

EP\_N19mb-Multiple:

type: array

items:

$ref: '#/components/schemas/EP\_N19mb-Single'

EP\_Nmb9-Multiple:

type: array

items:

$ref: '#/components/schemas/EP\_Nmb9-Single'

EP\_SM12-Multiple:

type: array

items:

$ref: '#/components/schemas/EP\_SM12-Single'

EP\_SM13-Multiple:

type: array

items:

$ref: '#/components/schemas/EP\_SM13-Single'

EP\_SM14-Multiple:

type: array

items:

$ref: '#/components/schemas/EP\_SM14-Single'

Configurable5QISet-Multiple:

type: array

items:

$ref: '#/components/schemas/Configurable5QISet-Single'

Dynamic5QISet-Multiple:

type: array

items:

$ref: '#/components/schemas/Dynamic5QISet-Single'

EcmConnectionInfo-Multiple:

type: array

items:

$ref: '#/components/schemas/EcmConnectionInfo-Single'

NssaafFunction-Multiple:

type: array

items:

$ref: '#/components/schemas/NssaafFunction-Single'

EP\_N58-Multiple:

type: array

items:

$ref: '#/components/schemas/EP\_N58-Single'

EP\_N59-Multiple:

type: array

items:

$ref: '#/components/schemas/EP\_N59-Single'

AfFunction-Multiple:

type: array

items:

$ref: '#/components/schemas/AfFunction-Single'

DccfFunction-Multiple:

type: array

items:

$ref: '#/components/schemas/DccfFunction-Single'

ChfFunction-Multiple:

type: array

items:

$ref: '#/components/schemas/ChfFunction-Single'

MfafFunction-Multiple:

type: array

items:

$ref: '#/components/schemas/MfafFunction-Single'

GmlcFunction-Multiple:

type: array

items:

$ref: '#/components/schemas/GmlcFunction-Single'

TsctsfFunction-Multiple:

type: array

items:

$ref: '#/components/schemas/TsctsfFunction-Single'

AanfFunction-Multiple:

type: array

items:

$ref: '#/components/schemas/AanfFunction-Single'

BsfFunction-Multiple:

type: array

items:

$ref: '#/components/schemas/BsfFunction-Single'

MbSmfFunction-Multiple:

type: array

items:

$ref: '#/components/schemas/MbSmfFunction-Single'

MbUpfFunction-Multiple:

type: array

items:

$ref: '#/components/schemas/MbUpfFunction-Single'

MnpfFunction-Multiple:

type: array

items:

$ref: '#/components/schemas/MnpfFunction-Single'

#------------ Definitions in TS 28.541 for TS 28.532 -----------------------------

resources-5gcNrm:

oneOf:

- $ref: '#/components/schemas/AmfFunction-Single'

- $ref: '#/components/schemas/SmfFunction-Single'

- $ref: '#/components/schemas/UpfFunction-Single'

- $ref: '#/components/schemas/N3iwfFunction-Single'

- $ref: '#/components/schemas/PcfFunction-Single'

- $ref: '#/components/schemas/AusfFunction-Single'

- $ref: '#/components/schemas/UdmFunction-Single'

- $ref: '#/components/schemas/UdrFunction-Single'

- $ref: '#/components/schemas/UdsfFunction-Single'

- $ref: '#/components/schemas/NrfFunction-Single'

- $ref: '#/components/schemas/NssfFunction-Single'

- $ref: '#/components/schemas/SmsfFunction-Single'

- $ref: '#/components/schemas/LmfFunction-Single'

- $ref: '#/components/schemas/NgeirFunction-Single'

- $ref: '#/components/schemas/SeppFunction-Single'

- $ref: '#/components/schemas/NwdafFunction-Single'

- $ref: '#/components/schemas/ScpFunction-Single'

- $ref: '#/components/schemas/NefFunction-Single'

- $ref: '#/components/schemas/NsacfFunction-Single'

- $ref: '#/components/schemas/DDNMFFunction-Single'

- $ref: '#/components/schemas/ExternalAmfFunction-Single'

- $ref: '#/components/schemas/ExternalNrfFunction-Single'

- $ref: '#/components/schemas/ExternalNssfFunction-Single'

- $ref: '#/components/schemas/ExternalSeppFunction-Single'

- $ref: '#/components/schemas/AmfSet-Single'

- $ref: '#/components/schemas/AmfRegion-Single'

- $ref: '#/components/schemas/QFQoSMonitoringControl-Single'

- $ref: '#/components/schemas/GtpUPathQoSMonitoringControl-Single'

- $ref: '#/components/schemas/EP\_N2-Single'

- $ref: '#/components/schemas/EP\_N3-Single'

- $ref: '#/components/schemas/EP\_N4-Single'

- $ref: '#/components/schemas/EP\_N5-Single'

- $ref: '#/components/schemas/EP\_N6-Single'

- $ref: '#/components/schemas/EP\_N7-Single'

- $ref: '#/components/schemas/EP\_N8-Single'

- $ref: '#/components/schemas/EP\_N9-Single'

- $ref: '#/components/schemas/EP\_N10-Single'

- $ref: '#/components/schemas/EP\_N11-Single'

- $ref: '#/components/schemas/EP\_N12-Single'

- $ref: '#/components/schemas/EP\_N13-Single'

- $ref: '#/components/schemas/EP\_N14-Single'

- $ref: '#/components/schemas/EP\_N15-Single'

- $ref: '#/components/schemas/EP\_N16-Single'

- $ref: '#/components/schemas/EP\_N17-Single'

- $ref: '#/components/schemas/EP\_N20-Single'

- $ref: '#/components/schemas/EP\_N21-Single'

- $ref: '#/components/schemas/EP\_N22-Single'

- $ref: '#/components/schemas/EP\_N26-Single'

- $ref: '#/components/schemas/EP\_N27-Single'

- $ref: '#/components/schemas/EP\_N28-Single'

- $ref: '#/components/schemas/EP\_N31-Single'

- $ref: '#/components/schemas/EP\_N32-Single'

- $ref: '#/components/schemas/EP\_N33-Single'

- $ref: '#/components/schemas/EP\_N34-Single'

- $ref: '#/components/schemas/EP\_N40-Single'

- $ref: '#/components/schemas/EP\_N41-Single'

- $ref: '#/components/schemas/EP\_N42-Single'

- $ref: '#/components/schemas/EP\_N58-Single'

- $ref: '#/components/schemas/EP\_N59-Single'

- $ref: '#/components/schemas/EP\_N60-Single'

- $ref: '#/components/schemas/EP\_N61-Single'

- $ref: '#/components/schemas/EP\_N62-Single'

- $ref: '#/components/schemas/EP\_N63-Single'

- $ref: '#/components/schemas/EP\_N84-Single'

- $ref: '#/components/schemas/EP\_N85-Single'

- $ref: '#/components/schemas/EP\_N86-Single'

- $ref: '#/components/schemas/EP\_N87-Single'

- $ref: '#/components/schemas/EP\_N88-Single'

- $ref: '#/components/schemas/EP\_N89-Single'

- $ref: '#/components/schemas/EP\_N96-Single'

- $ref: '#/components/schemas/EP\_Npc4-Single'

- $ref: '#/components/schemas/EP\_Npc6-Single'

- $ref: '#/components/schemas/EP\_Npc7-Single'

- $ref: '#/components/schemas/EP\_Npc8-Single'

- $ref: '#/components/schemas/EP\_N3mb-Single'

- $ref: '#/components/schemas/EP\_N4mb-Single'

- $ref: '#/components/schemas/EP\_N19mb-Single'

- $ref: '#/components/schemas/EP\_Nmb9-Single'

- $ref: '#/components/schemas/EP\_S5C-Single'

- $ref: '#/components/schemas/EP\_S5U-Single'

- $ref: '#/components/schemas/EP\_Rx-Single'

- $ref: '#/components/schemas/EP\_MAP\_SMSC-Single'

- $ref: '#/components/schemas/EP\_NLS-Single'

- $ref: '#/components/schemas/EP\_NL2-Single'

- $ref: '#/components/schemas/EP\_NL3-Single'

- $ref: '#/components/schemas/EP\_NL5-Single'

- $ref: '#/components/schemas/EP\_NL6-Single'

- $ref: '#/components/schemas/EP\_NL9-Single'

- $ref: '#/components/schemas/EP\_N11mb-Single'

- $ref: '#/components/schemas/EP\_N16mb-Single'

- $ref: '#/components/schemas/EP\_Nmb1-Single'

- $ref: '#/components/schemas/EP\_SM12-Single'

- $ref: '#/components/schemas/EP\_SM13-Single'

- $ref: '#/components/schemas/EP\_SM14-Single'

- $ref: '#/components/schemas/Configurable5QISet-Single'

- $ref: '#/components/schemas/FiveQiDscpMappingSet-Single'

- $ref: '#/components/schemas/PredefinedPccRuleSet-Single'

- $ref: '#/components/schemas/Dynamic5QISet-Single'

- $ref: '#/components/schemas/EASDFFunction-Single'

- $ref: '#/components/schemas/EcmConnectionInfo-Single'

- $ref: '#/components/schemas/NssaafFunction-Single'

- $ref: '#/components/schemas/AfFunction-Single'

- $ref: '#/components/schemas/DccfFunction-Single'

- $ref: '#/components/schemas/ChfFunction-Single'

- $ref: '#/components/schemas/MfafFunction-Single'

- $ref: '#/components/schemas/GmlcFunction-Single'

- $ref: '#/components/schemas/TsctsfFunction-Single'

- $ref: '#/components/schemas/AanfFunction-Single'

- $ref: '#/components/schemas/BsfFunction-Single'

- $ref: '#/components/schemas/MbSmfFunction-Single'

- $ref: '#/components/schemas/MbUpfFunction-Single'

- $ref: '#/components/schemas/MnpfFunction-Single'

<CODE ENDS>

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

|  |
| --- |
| **Next modification** |

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

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

<CODE BEGINS>

module \_3gpp-5gc-nrm-anlffunction {

yang-version 1.1;

namespace urn:3gpp:sa5:\_3gpp-5gc-nrm-anlffunction;

prefix anlf3gpp;

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

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

import \_3gpp-5gc-nrm-nwdaffunction { prefix nwdaf3gpp; }

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

organization "3gpp SA5";

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

description "This IOC represents the AnLF function in 5GC.

For more information about the AnLF, see 3GPP TS 23.288.

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

TTA, TTC). All rights reserved.";

reference "3GPP TS 28.541";

revision 2024-08-07 { reference CR-1331; }

revision 2023-11-03 { reference "initial revision"; }

grouping AnLFFunctionGrp {

description "Represents the AnLFFunction IOC";

uses top3gpp:Top\_Grp;

leaf activationStatus {

type enumeration {

enum ACTIVATED;

enum DEACTIVATED;

}

config false;

description "It indicates the activation status of the AnLF";

}

leaf-list mLModelRefList {

type types3gpp:DistinguishedName;

description "This attribute holds a DN list of MLModel Â¨

(See TS 28.105).";

config false;

}

leaf-list aIMLInferenceFunctionRefList {

type types3gpp:DistinguishedName;

description "This attribute holds a DN list of AIMLInferenceFunction

(See TS 28.105) .";

config false;

}

}

augment "/me3gpp:ManagedElement/nwdaf3gpp:NWDAFFunction" {

list AnLFFunction {

description "5G Core AnLF contained by NWDAF";

reference "3GPP TS 28.541";

key id;

uses top3gpp:Top\_Grp;

container attributes {

uses AnLFFunctionGrp;

}

}

}

}

<CODE ENDS>

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

\*\*\* START OF CHANGE 2 \*\*\*

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

<CODE BEGINS>

module \_3gpp-nr-nrm-desmanagementfunction {

yang-version 1.1;

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

prefix "desmf3gpp";

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

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

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

import \_3gpp-nr-nrm-nrcellcu { prefix nrcellcu3gpp; }

import \_3gpp-common-subnetwork { prefix subnet3gpp; }

import \_3gpp-5g-common-yang-types { prefix type5g3gpp; }

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

organization "3GPP SA5";

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

description "Defines the YANG mapping of the DESManagementFunction

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 2024-08-07 { reference CR-1331; }

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

revision 2021-08-05 { reference S5-214053/CR-0518; }

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

grouping loadTimeThresholdGrp {

description "Represents the the traffic load threshold and the time

duration.";

leaf loadThreshold {

description "This attribute is used by distributed ES algorithms to allow

a cell to enter the energySaving state.";

type type5g3gpp:EnergySavingLoadThresholdT;

}

leaf timeDuration {

description "The time duration indicates how long the traffic load

(either for UL or DL) in the cell needs to have been above the

threshold to wake up one or more original cells which have been

provided backup coverage by the candidate cell.";

type type5g3gpp:EnergySavingTimeDurationT;

}

}

grouping DESManagementFunctionGrp {

description "Represents the DESManagementFunction IOC.";

leaf desSwitch {

description "This attribute determines whether the Distributed SON

energy saving function is enabled or disabled.";

type boolean;

}

list intraRatEsActivationOriginalCellLoadParameters {

description "This attributes is relevant, if the cell acts as an original

cell. This attribute indicates the traffic load threshold and the time

duration, which are used by distributed ES algorithms to allow a cell

to enter the energySaving state.";

key loadThreshold;

min-elements 1;

max-elements 1;

uses loadTimeThresholdGrp;

}

list intraRatEsActivationCandidateCellsLoadParameters {

description "This attribute indicates the traffic load threshold and the

time duration, which are used by distributed ES algorithms level to

allow an 'original' cell to enter the energySaving state.";

key loadThreshold;

min-elements 1;

max-elements 1;

uses loadTimeThresholdGrp;

}

list intraRatEsDeactivationCandidateCellsLoadParameters {

description "This attributes is relevant, if the cell acts as a candidate

cell.This attribute indicates the traffic load threshold and the time

duration which is used by distributed ES algorithms to allow a cell to

leave the energySaving state.";

key loadThreshold;

min-elements 1;

max-elements 1;

uses loadTimeThresholdGrp;

}

list esNotAllowedTimePeriod {

description "This is a list of time periods during which

inter-RAT energy saving is not allowed";

key idx;

leaf idx {

type uint32;

}

uses EsNotAllowedTimePeriodGrp;

}

list interRatEsActivationOriginalCellParameters {

description "This attribute indicates the traffic load threshold and the

time duration, which are used by distributed inter-RAT ES algorithms to

allow an original cell to enter the energySaving state.";

key loadThreshold;

min-elements 1;

max-elements 1;

uses loadTimeThresholdGrp;

}

list interRatEsActivationCandidateCellParameters {

description "This attribute indicates the traffic load threshold and the

time duration, which are used by distributed inter-RAT ES algorithms to

allow an original cell to enter the energySaving state.";

key loadThreshold;

min-elements 1;

max-elements 1;

uses loadTimeThresholdGrp;

}

list interRatEsDeactivationCandidateCellParameters {

description "This attribute indicates the traffic load threshold and the

time duration which is used by distributed inter-RAT ES algorithms to

allow an original cell to leave the energySaving state.";

key loadThreshold;

min-elements 1;

max-elements 1;

uses loadTimeThresholdGrp;

}

leaf energySavingState {

description "Specifies the status regarding the energy saving in the

cell.";

type enumeration {

enum isNotEnergySaving;

enum isEnergySaving;

}

}

leaf isProbingCapable {

description "This attribute indicates whether this cell is capable of

performing the ES probing procedure.";

type enumeration{

enum yes;

enum no;

}

}

leaf-list mLModelRefList {

type types3gpp:DistinguishedName;

description "This attribute holds a DN list of MLModel Â¨

(See TS 28.105]).";

config false;

}

leaf-list aIMLInferenceFunctionRefList {

type types3gpp:DistinguishedName;

description "This attribute holds a DN list of AIMLInferenceFunction

(See TS 28.105) .";

config false;

}

}

grouping EsNotAllowedTimePeriodGrp {

leaf startTime {

description "Start of not allowed time period in UTC time zone.

If set, the endTime must also be set. If not set, this is

interpreted as around the clock.";

must ../endTime;

type type5g3gpp:UTC24TimeOfDayT;

}

leaf endTime {

description "If endTime has a lower value than startTime, it will

be interpreted as referring to the following day.";

type type5g3gpp:UTC24TimeOfDayT;

must ../startTime;

}

leaf-list daysOfWeek {

description "Specifies that the not allowed periods are only

applicable to the specified days in UTC timezone. Every day if

not set.";

type type5g3gpp:DayOfWeekT;

}

}

grouping DESManagementFunctionSubtree {

list DESManagementFunction {

description "This IOC represents the management capabilities of

Distributed SON Energy Saving (ES) functions. This is provided for

Energy Saving purposes.

In the case where multiple DESManagement MOIs exist at different

levels of the containment tree, the DESManagement MOI at the lower

level overrides the DESManagement MOIs at higher level(s) of the same

containment tree.";

reference "clause 6.2.3.0 in TS 28.310";

key id;

uses top3gpp:Top\_Grp;

container attributes {

uses DESManagementFunctionGrp;

}

}

}

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

"nrcellcu3gpp:NRCellCU" {

if-feature nrcellcu3gpp:DESManagementFunction;

uses DESManagementFunctionSubtree;

}

augment /me3gpp:ManagedElement/gnbcucp3gpp:GNBCUCPFunction {

if-feature gnbcucp3gpp:DESManagementFunction;

uses DESManagementFunctionSubtree;

}

augment /me3gpp:ManagedElement {

if-feature me3gpp:DESManagementFunction;

uses DESManagementFunctionSubtree;

}

augment /subnet3gpp:SubNetwork {

if-feature subnet3gpp:DESManagementFunction;

uses DESManagementFunctionSubtree;

}

}

<CODE ENDS>

\*\*\* END OF CHANGE 2 \*\*\*

\*\*\* START OF CHANGE 3 \*\*\*

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

<CODE BEGINS>

module \_3gpp-nr-nrm-dlbofunction {

yang-version 1.1;

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

prefix "dlbof3gpp";

import \_3gpp-common-subnetwork { prefix subnet3gpp; }

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

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

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

import \_3gpp-nr-nrm-nrcellcu { prefix nrcellcu3gpp; }

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

organization "3GPP SA5";

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

description "Defines the YANG mapping of the DLBOFunction

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 2024-08-07 { reference CR-1331; }

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

revision 2022-03-25 { reference "CR-0683"; }

revision 2021-10-22 { reference "CR-0577"; }

feature DLBOUnderGNBCUCPFunction {

description "The DLBOFunction shall be available under

GNBCUCPFunction";

}

feature DLBOUnderManagedElement {

description "The DLBOFunction shall be available under

ManagedElement";

}

feature DLBOUnderSubNetwork {

description "The DLBOFunction shall be available under

SubNetwork";

}

grouping DLBOFunctionGrp {

description "Represents the DLBOFunction IOC.";

leaf dlboControl {

description "This attribute determines whether the LBO function is

enabled or disabled.";

type boolean;

}

leaf maximumDeviationHoTriggerLow {

description "This parameter defines the maximum allowed lower

deviation of the Handover Trigger, from the default point of

operation.";

type int32 { range "-20..20"; }

units "0.5 dB";

}

leaf maximumDeviationHoTriggerHigh {

description "This parameter defines the maximum allowed upper

deviation of the Handover Trigger, from the default point of

operation.";

type int32 { range "-20..20"; }

units "0.5 dB";

}

leaf minimumTimeBetweenHoTriggerChange {

description "This parameter defines the minimum allowed time interval

between two Handover Trigger change performed by MRO. This is used

to control the stability and convergence of the algorithm.";

type int32 { range "0..604800"; }

units "1";

}

leaf-list mLModelRefList {

type types3gpp:DistinguishedName;

description "This attribute holds a DN list of MLModel Â¨

(See TS 28.105).";

config false;

}

leaf-list aIMLInferenceFunctionRefList {

type types3gpp:DistinguishedName;

description "This attribute holds a DN list of AIMLInferenceFunction

(See TS 28.105) .";

config false;

}

}

grouping DLBOFunctionSubtree {

list DLBOFunction {

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

of LBO.

In the case where multiple DLBO MOIs exist at different levels of the

containment tree, the DLBO MOI at the lower level overrides the DLBO

MOIs at higher level(s) of the same containment tree.";

reference "clause 7.1.2 in TS 28.313";

key id;

uses top3gpp:Top\_Grp;

container attributes {

uses DLBOFunctionGrp;

}

}

}

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

"nrcellcu3gpp:NRCellCU" {

if-feature DLBOUnderGNBCUCPFunction;

uses DLBOFunctionSubtree;

}

augment /me3gpp:ManagedElement {

if-feature DLBOUnderManagedElement;

uses DLBOFunctionSubtree;

}

augment /subnet3gpp:SubNetwork {

if-feature DLBOUnderSubNetwork;

uses DLBOFunctionSubtree;

}

}

<CODE ENDS>

\*\*\* END OF CHANGE 3 \*\*\*

\*\*\* START OF CHANGE 4 \*\*\*

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

<CODE BEGINS>

module \_3gpp-nr-nrm-dmrofunction {

yang-version 1.1;

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

prefix "dmrof3gpp";

import \_3gpp-common-subnetwork { prefix subnet3gpp; }

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

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

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

import \_3gpp-nr-nrm-nrcellcu { prefix nrcellcu3gpp; }

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

organization "3GPP SA5";

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

description "Defines the YANG mapping of the DMROFunction

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 2024-08-07 { reference CR-1331; }

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

revision 2022-01-07 { reference CR-0633; }

revision 2021-08-05 { reference S5-214053/CR-0518; }

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

grouping DMROFunctionGrp {

description "Represents the DMROFunction IOC.";

leaf maximumDeviationHoTriggerLow {

description "This parameter defines the maximum allowed lower

deviation of the Handover Trigger, from the default point of

operation.";

type int32 {range "-20..20";}

units "0.5 dB";

}

leaf maximumDeviationHoTriggerHigh {

description "This parameter defines the maximum allowed upper

deviation of the Handover Trigger, from the default point of

operation.";

type int32 {range "-20..20";}

units "0.5 dB";

}

leaf minimumTimeBetweenHoTriggerChange {

description "This parameter defines the minimum allowed time interval

between two Handover Trigger change performed by MRO. This is used to

control the stability and convergence of the algorithm.";

type uint32 {

range 0..604800; // <= 1 week

}

units seconds;

}

leaf tstoreUEcntxt {

description "The timer used for detection of too early HO, too late HO

and HO to wrong cell.";

type uint32 {

range 0..1023;

}

units "100 milliseconds";

}

leaf dmroControl {

description "This attribute determines whether the MRO function is

enabled or disabled.";

type boolean;

}

leaf-list mLModelRefList {

type types3gpp:DistinguishedName;

description "This attribute holds a DN list of MLModel Â¨

(See TS 28.105).";

config false;

}

leaf-list aIMLInferenceFunctionRefList {

type types3gpp:DistinguishedName;

description "This attribute holds a DN list of AIMLInferenceFunction

(See TS 28.105) .";

config false;

}

}

grouping DMROFunctionSubtree {

list DMROFunction {

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

of MRO.

In the case where multiple DMRO MOIs exist at different levels of the

containment tree, the DMRO MOI at the lower level overrides the DMRO

MOIs at higher level(s) of the same containment tree.";

reference "clause 7.1.2 in TS 28.313";

key id;

uses top3gpp:Top\_Grp;

container attributes {

uses DMROFunctionGrp;

}

}

}

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

"nrcellcu3gpp:NRCellCU" {

if-feature nrcellcu3gpp:DMROFunction;

uses DMROFunctionSubtree;

}

augment /me3gpp:ManagedElement/gnbcucp3gpp:GNBCUCPFunction {

if-feature gnbcucp3gpp:DMROFunction;

uses DMROFunctionSubtree;

}

augment /me3gpp:ManagedElement {

if-feature me3gpp:DMROFunction;

uses DMROFunctionSubtree;

}

augment /subnet3gpp:SubNetwork {

if-feature subnet3gpp:DMROFunction;

uses DMROFunctionSubtree;

}

}

<CODE ENDS>

\*\*\* END OF CHANGE 4 \*\*\*

|  |
| --- |
| **End of modification** |